CITY OF CLAYTON
Founded 1857 . . Incorporated 1964

AGENDA

REGULAR MEETING

* * *

CLAYTON CITY COUNCIL

* * *

TUESDAY, February 2, 2021

6:00 P.M.

and

7:00 P.M.

*** NEW LOCATION***

This meeting is being held in accordance with the Brown Act as currently in effect under the State Emergency Services Act, the Governor's Emergency Declaration related to COVID-19 and the Governor's Executive Orders N-25-20 and N-29-20 that allow members of the City Council, City staff and the public to participate and conduct a meeting by teleconference, videoconference or both. In order to comply with public health orders, the requirement to provide a physical location for members of the public to participate in the meeting has been suspended.

Mayor: Carl Wolfe
Vice Mayor: Peter Cloven

Council Members
Jim Diaz
Holly Tillman
Jeff Wan

- A complete packet of information containing staff reports and exhibits related to each public item is available for public review on the City's website at **www.ci.clayton.ca.us**
- Agendas are posted at: 1) City Hall, 6000 Heritage Trail; 2) Library, 6125 Clayton Road; 3) Ohm's Bulletin Board, 1028 Diablo Street, Clayton; and 4) City Website at **www.ci.clayton.ca.us**
- Any writings or documents provided to a majority of the City Council after distribution of the Agenda Packet and regarding any public item on this Agenda is available for review on the City's website at **www.ci.clayton.ca.us**
- If you have a physical impairment that requires special accommodations to participate, please call the City Clerk's office at least 72 hours in advance of the meeting at (925) 673-7300.

Instructions for Virtual City Council Meeting – February 2

To protect our residents, officials, and staff, and aligned with the Governor's executive order to Shelter-at-Home, this meeting is being conducted utilizing teleconferencing means consistent with State order that that allows the public to address the local legislative body electronically.

To follow or participate in the meeting:

a) **Videoconference:** to follow the meeting on-line, click here to register: https://us02web.zoom.us/webinar/register/WN_8HF1fp4OTkOe8pBgW7LSHQ
After clicking on the URL, please take a few seconds to submit your first and last name, and e-mail address then click "Register", which will approve your registration and a new URL to join the meeting will appear.

Phone-in: Once registered, you will receive an e-mail with instructions to join the meeting telephonically, and then dial Telephone: 877 853 5257 (Toll Free)

b) using the *Webinar ID* and *Password* found in the e-mail.

E-mail Public Comments: If preferred, please e-mail public comments to the City Clerk, Ms. Calderon at jcalderon@ci.clayton.ca.us by 5 PM on the day of the City Council meeting. All E-mail Public Comments will be forwarded to the entire City Council.

For those who choose to attend the meeting via videoconferencing or telephone shall have 3 minutes for public comments.

Location:

Videoconferencing Meeting (this meeting via teleconferencing is open to the public)
To join this virtual meeting on-line click here:
https://us02web.zoom.us/webinar/register/WN_8HF1fp4OTkOe8pBgW7LSHQ

To join on telephone, you must register in the URL above, which sends an e-mail to your inbox, and then dial (877) 853-5257 using the *Webinar ID* and *Password* found in the e-mail.

* CITY COUNCIL *

February 2, 2021

6:00 P.M.

1. **CALL TO ORDER AND ROLL CALL** – Mayor Wolfe.

2. **PLANNING COMMISSION VACANCY**

(a) Two candidates to be separately interviewed for one appointed office with the term to expire on June 30, 2021.

(b) City Council discussion and determination of citizen appointment to one opening on the Clayton Planning Commission for one vacated term of office from February 2, 2021 through June 30, 2021. (Mayor Wolfe) (View Here)

- Short Recess -

* * * * *

7:00 P.M. REGULAR PUBLIC MEETING

3. **CALL TO ORDER AND ROLL CALL** – Mayor Wolfe.

4. **PLEDGE OF ALLEGIANCE –** led by Councilmember Diaz.

5. **CONSENT CALENDAR**

Consent Calendar items are typically routine in nature and are considered for approval by one single motion of the City Council. Members of the Council, Audience, or Staff wishing an item removed from the Consent Calendar for purpose of public comment, question, discussion or alternative action may request so through the Mayor.

(a) Approve the minutes of the City Council's regular meeting of January 5, 2021. (City Clerk) (View Here)

(b) Approve the Financial Demands and Obligations of the City. (Finance) (View Here)

6. **RECOGNITIONS AND PRESENTATIONS** – None.

7. **REPORTS**

(a) Planning Commission – Meeting held January 26, 2021.
(b) Trails and Landscaping Committee – No meeting held.
(c) City Manager/Staff
(d) City Council - Reports from Council liaisons to Regional Committees, Commissions and Boards.
(e) Other

8. PUBLIC COMMENT ON NON - AGENDA ITEMS

Members of the public may address the City Council on items within the Council's jurisdiction, (which are not on the agenda) at this time. To assure an orderly meeting and an equal opportunity for everyone, each speaker is limited to 3 minutes, enforced at the Mayor's discretion. In accordance with State Law, no action may take place on any item not appearing on the posted agenda. The Council may respond to statements made or questions asked, or may at its discretion request Staff to report back at a future meeting concerning the matter.

Public comment and input on Public Hearing, Action Items and other Agenda Items will be allowed when each item is considered by the City Council.

9. PUBLIC HEARINGS

(a) Public Hearing to consider the eighteen residential-lot planned development project known as Diablo Meadows, which includes: Resolution No. __ to approve an Initial Study/Mitigated Negative Declaration and adopt a Mitigation Monitoring and Reporting Program (ENV-01-2020); Introduction of Ordinance No. ____ a zoning amendment to rezone the entire site from R-15 to Planned Development (PD) and amend CMC 17.78.040.D Exemptions to PD floor are area ratios. (ZOA-02-2020); and Resolution No. ____ approving the Development Plan (DP-01-20); the Vesting Tentative Map (MAP-01-2020); and the Tree Removal Permit (TRP-09-2020). (Community Development Director) (View Here)

10. ACTION ITEMS

(a) Comprehensive Annual Financial Report (CAFR). (Finance Director) (View Here)

11. COUNCIL ITEMS – limited to Council requests and directives for future meetings.

12. CLOSED SESSION – None.

13. ADJOURNMENT

The next regularly scheduled meeting of the City Council will be February 16, 2021.

# # # # #

CITY OF CLAYTON
Founded 1857 . . Incorporated 1964

STAFF REPORT

TO: **HONORABLE MAYOR AND COUNCILMEMBERS**

FROM: **Janet Calderon, City Clerk**

DATE: **February 2, 2021**

SUBJECT: **Consider applicants for appointment to the Planning Commission**

BACKGROUND

The term of office for one existing Planning Commissioner expiring on June 30, 2021 is vacant created by a Commissioner resignation in December 2020 due to election to the City Council.

Staff advertised the Planning Commission vacancy on the City's website, and at the City's three (3) posting areas. The deadline for applications was initially January 22, 2021 but was extended until January 27, 2021 and a total of three applications were received. After hours business hours on January 27, 2021, one applicant withdrew their application.

Before the City Council meeting on February 2, 2021, the full City Council will interview each of the candidates. Official appointments to the Planning Commission require full City Council vote.

RECOMMENDATION

Adopt the attached Resolution appointing one individual to the Planning Commission vacant term of office expiring June 30, 2021.

FISCAL IMPACT

None.

Attachments: Resolution – 1 page
Applications (2) - 4 pages (in alphabetical order)

RESOLUTION NO. -2021

A RESOLUTION APPOINTING ONE CITIZEN TO THE CLAYTON PLANNING COMMISSION

THE CITY COUNCIL
City of Clayton, California

WHEREAS, in 1964 the City Council of Clayton adopted Ordinance No. 20 establishing the City of Clayton Planning Commission with five members; and

WHEREAS, the term of office for one Planning Commissioner was vacated by its incumbent in December 2020 due to that individual's election to City Council, thereby creating an unexpired vacant term of office to end on June 30, 2021; and

WHEREAS, staff advertised the upcoming vacancy of one appointive position on the Planning Commission and set a deadline of January 22, 2021 which was extended until January 27, 2021 for candidates to submit an application to serve; and

WHEREAS, three interested citizens submitted applications expressing willingness to serve in this appointed capacity; and

WHEREAS, one applicant has requested to withdraw their application; and

WHEREAS, on February 2, 2021 the Clayton City Council publicly interviewed the two candidates.

NOW, THEREFORE, BE IT RESOLVED that the City Council of Clayton, California, does hereby appoint the following individual to the Planning Commission of the City of Clayton to fill the vacated term of office:

_____: February 2, 2021 through June 30, 2021

PASSED, APPROVED AND ADOPTED by the City Council of Clayton, California at a regular public meeting thereof held the 2nd day of February 2021 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

THE CITY COUNCIL OF CLAYTON, CA

_____
Carl Wolfe, Mayor

ATTEST:

_____
Janet Calderon, City Clerk

CITY OF CLAYTON
Founded 1857 .. Incorporated 1964

* CITY PLANNING COMMISSION * APPLICATION

All information contained on this application is a public record subject to public disclosure. This includes home address and all phone numbers. This public office is required by state law to complete and file an annual Financial Statement of Economic Interest

Name: Amy Callaghan

Date: 1/25/2021

Home address: _____ Contact phone: _____

Length of residence in Clayton: 18+ years

Email address: _____

Present employer: River Rock Real Estate Group

Occupation: Director, Northern California / Bay Area

A. Education and special training: BS Business Management; CA Real Estate Broker; Real Property Administrator - Both A

B. Please list experiences and activities which particularly qualify you for an appointment to the Clayton Planning Commission:
25 years managing commercial real estate from cell towers to all forms of commercial buildings, including experience managing property for municipal entities. My parents moved us to Clayton in 1992, and I lived there for 3 years (they still live in Easley Estates). I moved our family here in 2002 because we love the City.

C. What do you consider to be the role of a City Planning Commissioner?

To review plans and documentation presented to the planning commission related to land use within the city and make recommendations to City Council based on that review.

D. Other relevant information and interests:

I have been a commercial asset manager in addition to coming up through the ranks as a property manager. I am familiar with the real estate documentation process, and comfortable with the meaning.

E. Please list three references with phone numbers:

1. Jill Mahoney-Banks 925-705-0627
2. Mary Anne Beach 925-759-2926
3. Holly Tillman 925-352-3865

Amy Callaghan

Signature

The City of Clayton appreciates your interest and willingness to seek involvement in your community through civic service on our City Planning Commission. Thank you for your application.

CITY OF CLAYTON
Founded 1857 .. Incorporated 1964

* CITY PLANNING COMMISSION * APPLICATION

All information contained on this application is a public record subject to public disclosure. This includes home address and all phone numbers. This public office is required by state law to complete and file an annual Financial Statement of Economic Interest

Name: Edward L Miller III

Date: 1/25/2021

Home address: _____ Contact phone: ___

Length of residence in Clayton: 17 years (Nov 2003-present)

Email address: _____

Present employer: CSE Insurance

Occupation: Sr Business Intelligence Specialist (database integration/development)

A. Education and special training: BS '93 Eastern New Mexico University, double-major Computer Science/Physical Chemistry

B. Please list experiences and activities which particularly qualify you for an appointment to the Clayton Planning Commission:

As an engaged member of the Clayton community who also currently serves as the Clayton representative and the chairperson of the CCTA Citizens Advisory Committee, I have worked to improve the conditions for transportation, housing, and other concerns of our region. This has afforded me a helpful familiarity with the obligations and structure that most of the municipal/county/regional boards must operate, which would allow someone like me to get up to speed on the specific work of the planning commission without the delay of learning all of the "general" rules required by the State. In particular I have paid close attention to the rising concerns of the community and the rancor it has brought. My calm and logical disposition would be an asset in such meetings, allowing us to gather the facts and attempt to come together as amicably as possible to solutions that attempt to address all concerns.

C. What do you consider to be the role of a City Planning Commissioner?

Certainly part of the role is reactionary --- to review applications for development within our city limits, to note details that may have been overlooked that might cause problems, and to ensure that the development conforms to applicable State/county/municipal codes and laws. But also there is work that should be forward-looking and investigatory, such as in the case of the downtown parcel, which should gather information about where the community would like things to head and work with the City's department of Development to make sure the Planning Commission is aligning things to make it attractive and reasonable for desired projects to come and offer proposals.

D. Other relevant information and interests:

From 2004 to 2010 I served as the president of the Dana Ridge Homeowners' Association, and I have also volunteered for the Boy Scouts as a den leader for five years and an assistant Scoutmaster for two years.

E. Please list three references with phone numbers:

1. Peter Cloven 925-348-0884
2. Tuija Catalano 925-404-4255
3. Julie Aguiar 925-584-5947

Edward L Miller

Signature

The City of Clayton appreciates your interest and willingness to seek involvement in your community through civic service on our City Planning Commission. Thank you for your application.

MINUTES
OF THE
REGULAR MEETING
CLAYTON CITY COUNCIL

TUESDAY, January 19, 2021

1. **CALL TO ORDER THE CITY COUNCIL –** The meeting was called to order at 7:00 p.m. by Mayor Wolfe on a virtual web meeting and telephonically (877) 853-5257. Councilmembers present: Mayor Wolfe, Vice Mayor Cloven, and Councilmembers Diaz, Tillman, and Wan. Councilmembers absent: None. Staff present: City Manager Reina Schwartz, Police Chief Elise Warren, City Attorney Martin de los Angeles, and City Clerk/HR Manager Janet Calderon.

2. **PLEDGE OF ALLEGIANCE** – led by Councilmember Diaz.

3. **CONSENT CALENDAR**

It was moved by Councilmember Diaz, seconded by Councilmember Tillman, to approve the Consent Calendar items as submitted. (Passed 5-0).

(a) Approved the minutes of the City Council's regular meeting of January 5, 2021. (City Clerk)

(b) Approved the Financial Demands and Obligations of the City. (Finance)

(c) Adopted the 2021 City Council Calendar (City Manager/City Clerk)

(d) Adopted Resolution No. 01-2021 Approving the Disposal of Police Vehicle Unit 1735. (Police Chief)

(e) Adopted Resolution No. 02-2021 to award of contract to MIG, Inc. to provide professional services in the Community Engagement, Downtown Property. (Community Development Director)

(f) Receive and file the Association of Bay Area Governments (ABAG) Regional Early Action Plan (REAP) Non-Competitive Funding grant in the amount of $20,000. (Community Development Director)

4. **RECOGNITIONS AND PRESENTATIONS**

(a) Proclamation declaring February 2021 as "Black and African American History Month".

Councilmember Tillman provided a background on the requested proclamation, then read the proclamation.

Mayor Wolfe opened this item to public comment.

Nia Williams as a representative of the Diversify Our Narrative group at Clayton Valley Charter High School advised the City Council of the issues the group is having in adding any new curriculum for the 20-21 and 21-22 school year.

Cheryl Willis provided some information regarding a recently started non-profit organization called Rise Up Against Racism. Among other efforts, Rise Up Against Racism develops anti-racist libraries intended to bring the community together to understand and dismantle racism. She also requested that an anti-racist library be installed at Clayton's City Hall as it seems to be a secure location.

5. REPORTS

(a) Planning Commission – Vice Chair Terri Denslow stated at the meeting of January 12, 2021, the Commission had a robust discussion of the meeting minutes for October 27, 2020, November 2, 2020, November 24, 2020, December 8, 2020 and December 22, 2020 covering both the format and content. Ultimately the item was tabled with direction to staff to bring the Minutes back at a later date. Commissioner Altwal abstained. The next item was a clarification on a future agenda item around a September 15, 2020 memo from HCD regarding the Housing Accountability Act technical assistance advisory. There was a discussion during the Diablo meadows project that seemed to potential be in conflict with the clarifications in the HCD memo. It was determined to bring this item back to specifically discuss the difference between subdivision D and subdivision J and provide clarification to the Planning Commission on when each one of those subdivisions apply so the Commission has the insight for future housing development projects. The last item was a carry-over item from December 22, 2020 meeting. Chair Chippero suggested in 2021 the Planning Commission would rotate report out providing update reports to the City Council, Commissi. Commissioner Gavidia raised concerns with the rotation process. It was agreed that Chair Chippero and Vice Chair Denslow will be the primary Commissioners to report out, with Commissioner Altwal as the alternate.

(b) Trails and Landscaping Committee – No meeting held.

(c) City Manager/Staff

City Manager Reina Schwartz announced the Planning Commission vacancy and encouraged any citizen interested in the position should apply by January 22, 2021 however the deadline may be extended a little bit.

(d) City Council - Reports from Council liaisons to Regional Committees, Commissions and Boards.

Vice Mayor Cloven attended the virtual Contra Costa County Mayors' Conference, the new Councilmembers virtual lunch hosted by Cal Cities, training with City department heads and City Attorney, working with Laura Hoffmeister to schedule Trails and Landscaping Committee meeting in February, visited Keller Ridge/Kelok Way area to gather an understanding of the concerns in the area, emailed constituents, and announced upcoming new Councilmember training.

Councilmember Tillman attended the virtual Contra Costa County Mayors' Conference, several meetings with the City Manager, City Attorney, and City department heads, met with residents on Kelok Way, emailed constituents, collaborated with neighboring youth to prepare for a town hall to meet with local City Councilmembers, attended the new Councilmembers virtual lunch hosted by Cal Cities, and announced upcoming new Councilmember training.

Councilmember Wan emailed and called constituents, followed new legislation where SB1120 has been re-branded to SB9, and spoke to residents on Kelok Way.

Councilmember Diaz emailed residents of Kelok and Keller Ridge, attended the virtual Contra Costa County Mayors' Conference, participated in the removal of the downtown decorations, spoke with Mayor Dave Hudson from San Ramon regarding Housing vs. Jobs and Allocation thereof, met with residents of Morgan Territory Community Association meeting, and met with the City Manager and Police Chief.

Mayor Wolfe attended the virtual Contra Costa County Mayors' Conference, attended closed session special meeting of the East Contra Costa Habitat Conservancy, met with the City Manager, emailed and called constituents, had a socially distanced photo session with first Mayor Bob Hoyer, will be attending the Cal Cities training, participated in the removal of the downtown decorations, and thanked Boy Scout Troop 484 for their Christmas Tree recycling.

6. PUBLIC COMMENT ON NON - AGENDA ITEMS

Gary Hood inquired on the status of the housing element letter; suggesting it also be sent to all Contra Costa cities and placed on the agenda at the next Contra Costa County Mayors conference.

Jenny Lewis thanked the City Manager for the clarification regarding the storage of cannabis for personal use. She also requested the City Council consider allowing outdoor cannabis cultivation.

Mayor Wolfe closed public comment.

7. PUBLIC HEARINGS – None.

8. ACTION ITEMS

(a) Keller Ridge Drive /Kelok Way Area Traffic and Pedestrian Safety Recommendations (Police Chief)

Police Chief Elise Warren presented the report.

Following questions by City Council, Mayor Wolfe opened the item to public comment.

Clifford Seaholm is not in support of installation of a fence however, open to ideas that do not block the view.

Carrie Smith expressed significant concern of fire danger in the area and supported cameras, tickets, lights, and more police presence.

Nancy Beaver expressed her concerns of fire danger and limitation of one way in and one way out. She also inquired on the cost of speed bumps.

Mary McCarthy expressed her interest in being a part of a more formalized committee of the neighbors.

Leticia Smithwick also expressed interest in being a part of a more formalized committee of the neighbors.

Jay Gordon added the speeds have changed based on some neighbors placing children at play signs. He also expressed interest in being part of a more formalized committee of the neighbors.

Brian Kincaid expressed his support of more enforcement and suggested placement of a police car near the red curb.

Vala Stabler expressed her concerns of cars speeding and running stop signs in the area. She further expressed her concern of fire safety.

Mayor Wolfe closed public comment.

It was moved by Vice Mayor Cloven, seconded by Councilmember Tillman, to refer this matter to the Public Safety ad-hoc committee to gather input from the residents in the Keller Ridge Drive/ Kelok Way area on suggestions to remedy traffic and pedestrian safety. (Passed 5-0).

9. COUNCIL ITEMS

Councilmember Tillman requested City staff to determine if it is viable to install an anti-racist library at City Hall. She also requested a list of cultural days recognized in Clayton.

10. CLOSED SESSION – None.

11. ADJOURNMENT– on call by Mayor Wolfe, the City Council adjourned its meeting at 8:54 p.m.

The next regularly scheduled meeting of the City Council will be February 2, 2021.

# # # # #

Respectfully submitted,

_____
Janet Calderon, City Clerk

APPROVED BY THE CLAYTON CITY COUNCIL

_____
Carl Wolfe, Mayor

# # # # #

STAFF REPORT

TO: **HONORABLE MAYOR AND COUNCILMEMBERS**

FROM: **JENNIFER GIANTVALLEY, ACCOUNTING TECHNICIAN**

DATE: **02/02/2021**

SUBJECT: **FINANCIAL DEMANDS AND OBLIGATIONS OF THE CITY**

RECOMMENDATION:

It is recommended the City Council, by minute action, approve the financial demands and obligations of the City for the purchase of services and goods in the ordinary course of operations.

Attached Report	Purpose	Date	Amount
Open Invoice Report	Accounts Payable	1/26/2021	$ 303,429.36
Cash Requirements Report	Payroll, Taxes	12/16/2020	$ 81,079.89
	Total Required		$ 384,509.25

Attachments:

1. Open Invoice Report, dated 01/26/21 (7 pages)
2. Cash Requirements report PPE 01/24/21 (1 page)

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
Ace Sierra Tow								
Ace Sierra Tow	12/31/2020	12/31/2020	59894	Tow PD vehicle to City of Antioch yard	$127.50	$0.00		$127.50
				Totals for Ace Sierra Tow	*$127.50*	*$0.00*		*$127.50*
Advanced Elevator Solutions, Inc								
Advanced Elevator Solutions, Inc	1/1/2021	1/1/2021	41934	Elevator service	$124.00	$0.00		$124.00
				Totals for Advanced Elevator Solutions, Inc	*$124.00*	*$0.00*		*$124.00*
Alameda County Sheriff's Office								
Alameda County Sheriff's Office	1/1/2021	1/1/2021	031521	PD Training courses	$390.00	$0.00		$390.00
				Totals for Alameda County Sheriff's Office	*$390.00*	*$0.00*		*$390.00*
American Fidelity Assurance Company								
American Fidelity Assurance Company	12/31/2020	12/31/2020	D246197	Supplemental insurance December 2020	$583.34	$0.00		$583.34
American Fidelity Assurance Company	1/8/2021	1/8/2021	2090656B	FSA PPE 1/10/21	$63.45	$0.00		$63.45
American Fidelity Assurance Company	12/27/2020	12/27/2020	2088692C	FSA PPE 12/27/20	$83.07	$0.00		$83.07
American Fidelity Assurance Company	1/26/2021	1/26/2021	D257977	Supplemental insurance January 2021	$546.76	$0.00		$546.76
American Fidelity Assurance Company	1/24/2021	1/24/2021	2091238	FSA PPE 1/24/21	$63.45	$0.00		$63.45
				Totals for American Fidelity Assurance Company	*$1,340.07*	*$0.00*		*$1,340.07*
AT&T (CalNet3)								
AT&T (CalNet3)	1/22/2021	1/22/2021	15935177	Phones 12/22/20-1/21/21	$1,275.39	$0.00		$1,275.39
				Totals for AT&T (CalNet3)	*$1,275.39*	*$0.00*		*$1,275.39*
Bassam Atwal								
Bassam Atwal	1/25/2021	1/25/2021	PC12-20	Planning Commissioner stipend December 20	$120.00	$0.00		$120.00
				Totals for Bassam Atwal	*$120.00*	*$0.00*		*$120.00*
Authorize.net								
Authorize.net	12/31/2020	12/31/2020	December20	Online credit card gateway fee December 202	$31.95	$0.00		$31.95
				Totals for Authorize.net	*$31.95*	*$0.00*		*$31.95*
Bay Area Barricade Serv.								
Bay Area Barricade Serv.	1/7/2021	1/7/2021	18683	ADA signs	$195.75	$0.00		$195.75
Bay Area Barricade Serv.	1/7/2021	1/7/2021	18694	Sign posts, caps	$1,087.83	$0.00		$1,087.83
				Totals for Bay Area Barricade Serv.	*$1,283.58*	*$0.00*		*$1,283.58*
CalPERS Health								
CalPERS Health	2/1/2021	2/1/2021	16304717	Medical February 2021	$38,560.38	$0.00		$38,560.38
				Totals for CalPERS Health	*$38,560.38*	*$0.00*		*$38,560.38*
CalPERS Retirement								
CalPERS Retirement	12/27/2020	12/27/2020	122720	Retirement PPE 12/27/20	$19,396.73	$0.00		$19,396.73
CalPERS Retirement	1/10/2021	1/10/2021	011021	Retirement PPE 1/10/21	$18,955.44	$0.00		$18,955.44
CalPERS Retirement	1/24/2021	1/24/2021	012421	Retirement PPE 1/24/21	$18,869.54	$0.00		$18,869.54

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
				Totals for CalPERS Retirement	*$57,221.71*	*$0.00*		*$57,221.71*
Caltronics Business Systems, Inc								
Caltronics Business Systems, Inc	12/18/2020	12/18/2020	3158958	Copier usage 11/18/20-12/17/20	$171.47	$0.00		$171.47
Caltronics Business Systems, Inc	1/18/2021	1/18/2021	3174709	Copier usage 12/18/20-1/17/21	$125.71	$0.00		$125.71
				Totals for Caltronics Business Systems, Inc	*$297.18*	*$0.00*		*$297.18*
CCWD								
CCWD	12/31/2020	12/31/2020	G series	Water 11/3/20-1/4/21	$22,992.36	$0.00		$22,992.36
				Totals for CCWD	*$22,992.36*	*$0.00*		*$22,992.36*
CERCO Analytical, Inc.								
CERCO Analytical, Inc.	1/4/2021	1/4/2021	2012207	Well testing	$630.00	$0.00		$630.00
				Totals for CERCO Analytical, Inc.	*$630.00*	*$0.00*		*$630.00*
Anthony Chippero								
Anthony Chippero	1/25/2021	1/25/2021	PC12-20	Planning Commissioner stipend December 20	$120.00	$0.00		$120.00
				Totals for Anthony Chippero	*$120.00*	*$0.00*		*$120.00*
Cintas Corporation								
Cintas Corporation	1/21/2021	1/21/2021	4073706167	PW uniforms through 1/21/21	$59.88	$0.00		$59.88
Cintas Corporation	1/7/2021	1/7/2021	4072416648	PW uniforms through 1/7/21	$60.32	$0.00		$60.32
Cintas Corporation	12/31/2020	12/31/2020	4071871048	PW uniforms through 12/31/20	$61.04	$0.00		$61.04
Cintas Corporation	11/5/2020	11/5/2020	4066474749	PW uniforms through 11/5/20	$49.44	$0.00		$49.44
Cintas Corporation	1/14/2021	1/14/2021	4073043906	PW uniforms through 1/14/21	$100.55	$0.00		$100.55
Cintas Corporation	11/19/2020	11/19/2020	4067841111	PW uniforms through 11/19/20	$49.44	$0.00		$49.44
				Totals for Cintas Corporation	*$380.67*	*$0.00*		*$380.67*
City of Antioch								
City of Antioch	1/19/2021	1/19/2021	1741	Service to PD veh 1741	$366.25	$0.00		$366.25
City of Antioch	1/19/2021	1/19/2021	1740	Service to PD veh 1740	$871.13	$0.00		$871.13
City of Antioch	1/19/2021	1/19/2021	1735	Service to PD veh 1735	$530.00	$0.00		$530.00
City of Antioch	1/19/2021	1/19/2021	1738	Service to PD veh 1738	$672.98	$0.00		$672.98
				Totals for City of Antioch	*$2,440.36*	*$0.00*		*$2,440.36*
City of Concord								
City of Concord	1/1/2021	1/1/2021	86773	Dispatch services February 2021	$24,418.92	$0.00		$24,418.92
				Totals for City of Concord	*$24,418.92*	*$0.00*		*$24,418.92*
Clean Street								
Clean Street	12/31/2020	12/31/2020	99018	Street sweeping December 2020	$4,500.00	$0.00		$4,500.00
				Totals for Clean Street	*$4,500.00*	*$0.00*		*$4,500.00*
CLEARS, Inc.								
CLEARS, Inc.	1/1/2021	1/1/2021	2021	Member dues 2021	$50.00	$0.00		$50.00

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
				Totals for CLEARS, Inc.	*$50.00*	*$0.00*		*$50.00*
Cole Supply Co., nc								
Cole Supply Co., nc	11/17/2020	11/17/2020	w432264	Paper towels, trash bags	$386.99	$0.00		$386.99
Cole Supply Co., nc	1/1/2021	1/1/2021	w387420	Trash bags	$441.90	$0.00		$441.90
				Totals for Cole Supply Co., nc	*$828.89*	*$0.00*		*$828.89*
Comcast Business (PD)								
Comcast Business (PD)	12/31/2020	12/31/2020	113881381	PD internet December 2020	$989.42	$0.00		$989.42
				Totals for Comcast Business (PD)	*$989.42*	*$0.00*		*$989.42*
Comcast Business								
Comcast Business	1/5/2021	1/5/2021	010521	Internet 1/10/21-2/9/21	$386.09	$0.00		$386.09
				Totals for Comcast Business	*$386.09*	*$0.00*		*$386.09*
Contra Costa County Department of Conservation & Development								
Contra Costa County Department of Co	12/31/2020	12/31/2020	2021Q2	CASp fees Q2 FY21	$217.60	$0.00		$217.60
				Totals for Contra Costa County Department of Conservation & Developmen	*$217.60*	*$0.00*		*$217.60*
Contra Costa County Mayors' Conference								
Contra Costa County Mayors' Conferenc	1/1/2021	1/1/2021	2021	Mayors conference for 2021	$410.00	$0.00		$410.00
				Totals for Contra Costa County Mayors' Conference	*$410.00*	*$0.00*		*$410.00*
De Lage Landen Financial Services, Inc.								
De Lage Landen Financial Services, Inc.	12/1/2020	12/1/2020	70224670	Copier lease November 2020	$1,049.86	$0.00		$1,049.86
De Lage Landen Financial Services, Inc.	12/6/2020	12/6/2020	70519934	Copier lease December 2020	$1,026.92	$0.00		$1,026.92
				Totals for De Lage Landen Financial Services, Inc.	*$2,076.78*	*$0.00*		*$2,076.78*
Terri Denslow								
Terri Denslow	1/25/2021	1/25/2021	PC12-20	Planning Commissioner stipend December 20	$120.00	$0.00		$120.00
				Totals for Terri Denslow	*$120.00*	*$0.00*		*$120.00*
Dillon Electric Inc								
Dillon Electric Inc	1/11/2021	1/11/2021	4300	Streetlight repairs 1/7/21	$704.54	$0.00		$704.54
Dillon Electric Inc	1/11/2021	1/11/2021	4299	Streetlight repairs 1/6/21	$1,721.85	$0.00		$1,721.85
				Totals for Dillon Electric Inc	*$2,426.39*	*$0.00*		*$2,426.39*
Division of the State Architect								
Division of the State Architect	12/31/2020	12/31/2020	Q2FY21	CASp fees Q2 FY21	$25.60	$0.00		$25.60
				Totals for Division of the State Architect	*$25.60*	*$0.00*		*$25.60*
Environtech Enterprises								
Environtech Enterprises	1/3/2021	1/3/2021	A001-A1-21	Weed abatement N of Peacock Creek	$10,900.00	$0.00		$10,900.00
Environtech Enterprises	1/3/2021	1/3/2021	A001-B1-21	Weed abatement S of Peacock Creek	$11,900.00	$0.00		$11,900.00
				Totals for Environtech Enterprises	*$22,800.00*	*$0.00*		*$22,800.00*

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
Frank Gavidia								
Frank Gavidia	1/25/2021	1/25/2021	PC12-20	Planning Commissioner stipend December 20	$120.00	$0.00		$120.00
				Totals for Frank Gavidia	*$120.00*	*$0.00*		*$120.00*
Geoconsultants, Inc.								
Geoconsultants, Inc.	12/29/2020	12/29/2020	19124	Well monitoring December 2020	$1,546.50	$0.00		$1,546.50
				Totals for Geoconsultants, Inc.	*$1,546.50*	*$0.00*		*$1,546.50*
Globalstar LLC								
Globalstar LLC	12/16/2020	12/16/2020	9328163	Sat phone 12/16/20-1/15/21	$110.97	$0.00		$110.97
				Totals for Globalstar LLC	*$110.97*	*$0.00*		*$110.97*
HdL Software, LLC								
HdL Software, LLC	12/30/2020	12/30/2020	SIN005876	Sales Tax Review, Financial Stmts	$950.00	$0.00		$950.00
				Totals for HdL Software, LLC	*$950.00*	*$0.00*		*$950.00*
ICMA Retirement Corporation								
ICMA Retirement Corporation	1/10/2021	1/10/2021	11021	457 plan contributions PPE 1/10/21	$2,709.62	$0.00		$2,709.62
ICMA Retirement Corporation	12/27/2020	12/27/2020	122720	457 plan contributions PPE 12/27/20	$1,909.62	$0.00		$1,909.62
ICMA Retirement Corporation	1/24/2021	1/24/2021	012421	457 plan contributions PPE 1/24/21	$2,709.62	$0.00		$2,709.62
				Totals for ICMA Retirement Corporation	*$7,328.86*	*$0.00*		*$7,328.86*
J&R Floor Services								
J&R Floor Services	1/1/2021	1/1/2021	One2021	Janitorial service January 2021	$2,875.00	$0.00		$2,875.00
				Totals for J&R Floor Services	*$2,875.00*	*$0.00*		*$2,875.00*
Matrix Association Management								
Matrix Association Management	12/31/2020	12/31/2020	15123	Diablo Estates Mgmt December 2020	$4,532.50	$0.00		$4,532.50
Matrix Association Management	11/30/2020	11/30/2020	14672	Diablo Estates Mgmt November 2020	$4,532.50	$0.00		$4,532.50
Matrix Association Management	10/31/2020	10/31/2020	14354	Diablo Estates Mgmt October 2020	$4,532.50	$0.00		$4,532.50
Matrix Association Management	9/30/2020	9/30/2020	14122	Diablo Estates Mgmt September 2020	$4,532.50	$0.00		$4,532.50
Matrix Association Management	8/31/2020	8/31/2020	13906	Diablo Estates Mgmt August 2020	$4,532.50	$0.00		$4,532.50
Matrix Association Management	7/1/2020	7/1/2020	13057	Diablo Estates Mgmt May 2020	$4,532.50	$0.00		$4,532.50
				Totals for Matrix Association Management	*$27,195.00*	*$0.00*		*$27,195.00*
MSR Mechanical, LLC								
MSR Mechanical, LLC	1/18/2021	1/18/2021	114879	EH HVAC Maintenance	$295.50	$0.00		$295.50
MSR Mechanical, LLC	1/18/2021	1/18/2021	114878	CH HVAC Maintenance	$350.00	$0.00		$350.00
				Totals for MSR Mechanical, LLC	*$645.50*	*$0.00*		*$645.50*
Nationwide								
Nationwide	1/10/2021	1/10/2021	11021	457 Plan contribution PPE 1/10/21	$500.00	$0.00		$500.00
Nationwide	1/24/2021	1/24/2021	012421	457 Plan contribution PPE 1/24/21	$500.00	$0.00		$500.00
				Totals for Nationwide	*$1,000.00*	*$0.00*		*$1,000.00*

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
NAVSURFWARCENDIV Crane								
NAVSURFWARCENDIV Crane	1/6/2021	1/6/2021	N00164LE1015-21	Thermal camera	$300.00	$0.00		$300.00
				Totals for NAVSURFWARCENDIV Crane	*$300.00*	*$0.00*		*$300.00*
Neopost (add postage)								
Neopost (add postage)	1/22/2021	1/22/2021	012221	Postage added	$300.00	$0.00		$300.00
				Totals for Neopost (add postage)	*$300.00*	*$0.00*		*$300.00*
Pacific Office Automation								
Pacific Office Automation	1/4/2021	1/4/2021	212195	Copier lease pmt 46 of 60	$106.58	$0.00		$106.58
Pacific Office Automation	12/23/2020	12/23/2020	212127	Copier usage 11/20/20-12/19/20	$13.78	$0.00		$13.78
				Totals for Pacific Office Automation	*$120.36*	*$0.00*		*$120.36*
Paychex								
Paychex	12/16/2020	12/16/2020	2020121401	Payroll fees PPE 12/13/20	$258.22	$0.00		$258.22
Paychex	1/10/2021	1/10/2021	2021011101	Payroll fees PPE 1/10/21, W-2s for 2020	$687.72	$0.00		$687.72
Paychex	12/30/2020	12/30/2020	2020122801	Payroll fees PPE 12/27/20	$289.90	$0.00		$289.90
Paychex	1/24/2021	1/24/2021	2021012501	Payroll fees PPE 1/24/21	$202.92	$0.00		$202.92
Paychex	12/5/2020	12/5/2020	939937	Time & Attendance December 2020	$151.20	$0.00		$151.20
Paychex	1/5/2021	1/5/2021	999048	Time & Attendance January 2021	$151.20	$0.00		$151.20
				Totals for Paychex	*$1,741.16*	*$0.00*		*$1,741.16*
Paysafe Payment Processing								
Paysafe Payment Processing	12/31/2020	12/31/2020	Dec20	OTC bankcard fees December 2020	$188.24	$0.00		$188.24
Paysafe Payment Processing	12/31/2020	12/31/2020	Dec20	Online bankcard fees December 2020	$118.64	$0.00		$118.64
				Totals for Paysafe Payment Processing	*$306.88*	*$0.00*		*$306.88*
PG&E								
PG&E	1/14/2021	1/14/2021	011421	Energy 12/15/20-1/13/21	$20,389.97	$0.00		$20,389.97
PG&E	1/21/2021	1/21/2021	012121	Energy 12/21/20-1/20/21	$4,471.20	$0.00		$4,471.20
				Totals for PG&E	*$24,861.17*	*$0.00*		*$24,861.17*
Pond M Solutions								
Pond M Solutions	12/31/2020	12/31/2020	7035	Fountain repair	$385.00	$0.00		$385.00
				Totals for Pond M Solutions	*$385.00*	*$0.00*		*$385.00*
Raney Planning & Management, Inc.								
Raney Planning & Management, Inc.	12/9/2020	12/9/2020	2043E-5	Diablo Canyon prof fees November 2020	$2,730.00	$0.00		$2,730.00
Raney Planning & Management, Inc.	12/9/2020	12/9/2020	2040E-6	Consulting fees November 2020	$19,023.43	$0.00		$19,023.43
				Totals for Raney Planning & Management, Inc.	*$21,753.43*	*$0.00*		*$21,753.43*
Site One Landscape Supply, LLC								
Site One Landscape Supply, LLC	12/28/2020	12/28/2020	105604393-001	Irrigation parts	$76.46	$0.00		$76.46
Site One Landscape Supply, LLC	12/30/2020	12/30/2020	105630174-001	Irrigation supplies	$254.83	$0.00		$254.83

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
				Totals for Site One Landscape Supply, LLC	*$331.29*	*$0.00*		*$331.29*
Sprint Comm (PD)								
Sprint Comm (PD)	12/29/2020	12/29/2020	703335311-229	Cell phones 11/26/20-12/25/20	$717.22	$0.00		$717.22
				Totals for Sprint Comm (PD)	*$717.22*	*$0.00*		*$717.22*
Staples Business Credit								
Staples Business Credit	12/25/2020	12/25/2020	1632493663	Office supplies	$79.91	$0.00		$79.91
				Totals for Staples Business Credit	*$79.91*	*$0.00*		*$79.91*
Stericycle Inc								
Stericycle Inc	1/1/2021	1/1/2021	3005374860	Medical waste disposal	$65.00	$0.00		$65.00
				Totals for Stericycle Inc	*$65.00*	*$0.00*		*$65.00*
Stria, LLC								
Stria, LLC	12/31/2020	12/31/2020	14624	Council agenda digital conversion	$5,280.24	$0.00		$5,280.24
				Totals for Stria, LLC	*$5,280.24*	*$0.00*		*$5,280.24*
Swenson's Mobile Fleet Repair								
Swenson's Mobile Fleet Repair	1/7/2021	1/7/2021	I002426	Service to '17 F350	$137.97	$0.00		$137.97
Swenson's Mobile Fleet Repair	12/28/2020	12/28/2020	I002395	Gas cap	$11.51	$0.00		$11.51
Swenson's Mobile Fleet Repair	1/7/2021	1/7/2021	I002425	Service '11 F250	$285.99	$0.00		$285.99
Swenson's Mobile Fleet Repair	1/6/2021	1/6/2021	I002422	Service to '15 F250	$115.00	$0.00		$115.00
				Totals for Swenson's Mobile Fleet Repair	*$550.47*	*$0.00*		*$550.47*
Texas Life Insurance Company								
Texas Life Insurance Company	1/15/2021	1/15/2021	SM0F1B2021011400	Supplemental insurance	$53.00	$0.00		$53.00
				Totals for Texas Life Insurance Company	*$53.00*	*$0.00*		*$53.00*
Thomson Reuters-West								
Thomson Reuters-West	1/4/2021	1/4/2021	843672104	Penal code books 2021	$160.75	$0.00		$160.75
				Totals for Thomson Reuters-West	*$160.75*	*$0.00*		*$160.75*
US Bank - Corp Pmt System CalCard								
US Bank - Corp Pmt System CalCard	12/22/2020	12/22/2020	122220	Cal card stmt end 12/22/20	$9,998.97	$0.00		$9,998.97
				Totals for US Bank - Corp Pmt System CalCard	*$9,998.97*	*$0.00*		*$9,998.97*
Verizon Wireless								
Verizon Wireless	1/1/2021	1/1/2021	9870292116	Cell phones 12/2/20-1/1/21	$328.05	$0.00		$328.05
				Totals for Verizon Wireless	*$328.05*	*$0.00*		*$328.05*
Voyager - CalCard								
Voyager - CalCard	12/24/2020	12/24/2020	12/24/20	Fuel, stmt end 12/24/20	$1,309.68	$0.00		$1,309.68
Voyager - CalCard	1/24/2021	1/24/2021	012421	Fuel, stmt end 1/24/21	$3,207.49	$0.00		$3,207.49
				Totals for Voyager - CalCard	*$4,517.17*	*$0.00*		*$4,517.17*

City of Clayton
Open Invoice Report
Obligations

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
Workers.com								
Workers.com	1/15/2021	1/15/2021	129043	Seasonal workers week end 1/10/21	$1,377.60	$0.00		$1,377.60
Workers.com	1/22/2021	1/22/2021	129090	Seasonal workers week end 1/17/21	$1,845.02	$0.00		$1,845.02
				Totals for Workers.com.	*$3,222.62*	*$0.00*		*$3,222.62*
				GRAND TOTALS:	**$303,429.36**	**$0.00**		**$303,429.36**

CASH REQUIREMENTS

CASH REQUIRED FOR NEGOTIABLE CHECKS &/OR ELECTRONIC FUNDS TRANSFERS (EFT) FOR CHECK DATE 01/27/21: $81,079.89

IMPORTANT COVID-19 INFORMATION: If you filed IRS Form 7200, please notify your Paychex representative to avoid owing a balance at the end of the quarter and ensure your Form 941 is accurate.

TRANSACTION SUMMARY

SUMMARY BY TRANSACTION TYPE -

TOTAL ELECTRONIC FUNDS TRANSFER (EFT)	81,079.89
CASH REQUIRED FOR NEGOTIABLE CHECKS &/OR EFT	**81,079.89**
TOTAL REMAINING DEDUCTIONS / WITHHOLDINGS / LIABILITIES	16,023.41
CASH REQUIRED FOR CHECK DATE 01/27/21	97,103.30

TRANSACTION DETAIL

ELECTRONIC FUNDS TRANSFER - *Your financial institution will initiate transfer to Paychex **at or after 12:01 A.M.** on transaction date.*

TRANS. DATE	BANK NAME	ACCOUNT NUMBER	PRODUCT	DESCRIPTION		BANK DRAFT AMOUNTS & OTHER TOTALS
01/26/21	BANK OF AMERICA, NA	xxxxxx4799	Direct Deposit	Net Pay Allocations	61,497.49	
01/26/21	BANK OF AMERICA, NA	xxxxxx4799	Direct Deposit	Deductions with Direct Deposit	663.50	**62,160.99**
01/26/21	BANK OF AMERICA, NA	xxxxxx4799	Readychex®	Check Amounts	1,485.50	**1,485.50**
01/26/21	BANK OF AMERICA, NA	xxxxxx4799	Garnishment	Employee Deductions	75.00	**75.00**
				EFT FOR 01/26/21		**63,721.49**
01/27/21	BANK OF AMERICA, NA	xxxxxx4799	Taxpay®	Employee Withholdings		
				Medicare	1,285.11	
				Fed Income Tax	9,172.42	
				CA Income Tax	3,532.54	
				Total Withholdings	**13,990.07**	
				Employer Liabilities		
				Medicare	1,285.14	
				Fed Unemploy	378.74	
				CA Unemploy	1,641.34	
				CA Emp Train	63.11	
				Total Liabilities	**3,368.33**	**17,358.40**
				EFT FOR 01/27/21		**17,358.40**
				TOTAL EFT		**81,079.89**

CITY OF CLAYTON
Founded 1857 . . Incorporated 1964

AGENDA REPORT

TO: **HONORABLE MAYOR AND COUNCIL MEMBERS**

FROM: **Reina Schwartz, City Manager**

BY: **Matthew Feske, Community Development Director**

DATE: **February 2, 2021**

SUBJECT: **Public Hearing to consider the eighteen residential-lot planned development project; Initial Study/Mitigated Negative Declaration (ENV-01-2020); Zoning Map Amendment (ZOA-02-2020); Vesting Tentative Map (MAP-01-2020); Development Plan Permit (DP-01-2020); and Tree Removal Permit (TRP-09-2020)**

RECOMMENDATION

Staff recommends that the City Council take the following actions:

1. Adopt Resolution No. ___ adopting the Diablo Meadows Initial Study/Mitigated Negative Declaration and approving the Mitigation Monitoring and Reporting Program (ENV-01-2020); and
2. Introduce Ordinance No. ____for a Zoning Amendment to rezone the entire site from R-15 to Planned Development (PD) and amend CMC 17.78.040.D Exemptions to PD floor are area ratios. (ZOA-02-20); and
3. Adopt Resolution approving the Development Plan (DP-01-20); the Vesting Tentative Map (MAP-01-2020); and the Tree Removal Permit (TRP-09-2020)

Alternative Recommendation

1. City Council deny the Rezone, Vesting Tentative Map, Development Plan Review Permit, and Tree Removal Permit

BACKGROUND

The 8.68-acre project site is located on vacant land located west of Mitchell Canyon Road and north/west of Herriman Court and surrounded by existing single-family residential neighborhoods and a quarry site to the south. The applicant proposes to subdivide the

existing property into 18 residential lots and 5 parcels for drainage, private roadway, and open space.

The Planning Commission heard and recommended approval the Diablo Meadows project at a noticed public hearing December 8, 2020, and voiced the following comments and concerns:

a. Revise dates on the resolutions B, C, D, and E, to list December 8, 2020 (not hearing date project first noticed).

b. Note government code sections referenced in COA 11 & 12. All revisions are redlined for clarity. No changes to the staff report were made.

c. A concern was that the zoning revert back to R-15 should project not be built. This was not incorporated per City Attorney; any subsequent change in zoning would require action by the Planning Commission.

d. We should note that seven other subdivisions in the city have floor/building ratio exceptions as noted on exhibit H (hereby noted).

e. Concern was voiced regarding condition and staff report: examples voiced were kit fox and landscape district: staff made changes from version first circulated and that was confusing.

f. The concern voiced on the 2nd story option to the number 2 home plan. Staff added as COA E.8: plan 2X is allowed on lots 7 and 9 only. Lots 1, 3, 5, 10 & 13 may not have a Plan 2X per agreement with neighbors.

g. Commissioners noted a discrepancy in tree count; attached is corrected tree county by arborist.

FISCAL IMPACTS

There are no immediate fiscal impacts associated with the application. Should the proposed project be approved, there would be an increase in property taxes, which would be a direct positive fiscal impact. In addition, after construction and occupancy of the homes, the residents could have an indirect positive fiscal impact by shopping and dining at the local businesses and increasing sales taxes.

ATTACHMENTS

A. Resolution for Diablo Meadows Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-2020)

B. Ordinance Zoning Amendment to rezone the entire site from R-15 to Planned Development (PD) and amend CMC 17.78.040.D Exemptions to PD floor are area ratios. (ZOA-02-20)

C. Resolution approving the Development Plan (DP-01-20); the Vesting Tentative Parcel Map (MAP-01-2020); and the Tree Removal Permit (TRP-09-2020)

D. Initial Study/ Mitigated Negative Declaration (stand-alone document due to size.) https://ci.clayton.ca.us/community-development/planning/development-activity/current-projects-diablo-meadows/

E. Planning Commission Packet December 8, 2020 (also found at above URL)
    a. Staff Report, and Conditions of Approval (Redlined)
    b. Planning Commission Resolution No. -20 IS/MND
    c. Planning Commission Resolution No. -20 Zoning Map & Text Amendment
    d. Clayton Ordinance XXX Zoning Map Amendment
    e. Planning Commission Resolution No. -20 Vesting Tentative Map, Development Plan, Tree Removal
    f. Vicinity and Site Map
    g. Zoning Map Amendment Exhibit
    h. MC 17.78.040 – Exemptions Text Exhibit
    i. Vesting Tentative Map, Boundary and Existing Conditions, Preliminary Grading and Drainage, Preliminary Utility Plan, Preliminary Development/ Constraints Plan, Stormwater Control Plan
    j. Design Review Booklet: Architectural Plans (Floor Plans and Architectural Elevations
    k. Architectural Color Schemes
    l. Landscape and Fencing Plan
    m. Arborist Report
    n. Existing Tree Exhibit
    o. Grading Cross Sections
    p. Earthwork Calcs Exhibit
F. Revised Plan per Planning Commission Meeting December 8, 2020
G. Draft Conditions of Approval
H. Public Hearing Notice
I. AB32 and SB18 Letters

RESOLUTION NO. ___-2021

A RESOLUTION ADOPTING THE INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND APPROVING THE MITIGATION MONITORING AND REPORTING PROGRAM FOR THE DIABLO MEADOWS RESIDENTIAL SUBDIVISION PROJECT (ENV-01-20).

THE CITY COUNCIL
City of Clayton, California

WHEREAS, the City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review (ENV-01-20); Zoning Map Amendment (ZOA-02-20); Vesting Tentative Subdivision Map (MAP-01-20); Development Plan Permit (DP-01-20); and Tree Removal Permit (TRP-09-20) for the subdivision and development of eighteen single-family residences, 5 parcels, and a private road on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS, the City prepared an Initial Study/Mitigated Negative Declaration ("IS/MND") and Mitigation Monitoring and Reporting Program (MMRP) to evaluate the potential environmental impacts of the Project, in accordance with Section 15063 of Title 14 of the California Code of Regulations, the California Environmental Quality Act ("CEQA") Guidelines; and

WHEREAS, a draft IS/MND was duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 15, 2020 and ending October 5, 2020; and

WHEREAS, on December 8, 2020, the Clayton Planning Commission held a duly-noticed public hearing on the IS/MND and MMRP, at which time all interested parties were invited to provide comments, received and considered testimony and evidence, both oral and documentary, and recommended approval of the Final IS/MND and MMRP with the attached errata sheets, and Response to Comments; and

WHEREAS, the custodian of the Final IS/MND is the Community Development Department and the Final IS/MND is available for public review at City Hall in the Community Development Department; and

WHEREAS, the MMRP is attached as Exhibit A, the Errata is attached as Exhibit B, and the Response to Comments is attached as Exhibit C to this Resolution, and;

WHEREAS, the Clayton City Council has reviewed the IS/MND, for the Project, the Errata, and the Responses to Comments; and

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, on February 2, 2021, the City Council held a duly noticed public hearing, at which time all interested parties were invited to provide comments, and discussed the project and staff's recommended adoption of the Initial Study and Mitigated Negative Declaration pursuant to the CEQA Guidelines and the recommended conditional approval of the planning entitlements for the project; and

NOW, THEREFORE, BE IT RESOLVED, as follows:

SECTION 1: The foregoing recitals are true and correct.

SECTION 2: The Clayton City Council hereby finds, on the basis of the whole record before it (including the Final IS/MND, the Responses to Comments, the MMRP, and all comments received) that:

a. There is no substantial evidence that the project will have a significant effect on the environment and that the Final IS/MND reflects the independent judgment and analysis of the City.

b. The Final IS/MND and MMRP are complete and in compliance with CEQA, the State CEQA Guidelines, and the City's local CEQA Guidelines, and the IS/MND adequately addresses the expected environmental impacts of the proposed project.

c. The Final IS/MND and all related records of proceedings upon which the decision is based shall be maintained and kept on file by the Community Development Director of the City of Clayton, City Hall, Clayton, California.

d. Through implementation of mitigation measures via the MMRP and through compliance with applicable laws, ordinances and regulations, there is no substantial evidence supporting a fair argument that the project will have a significant adverse effect on the environment.

SECTION 3: The Clayton City Council hereby adopts the Diablo Meadows Residential Subdivision Initial Environmental Study/Mitigated Negative Declaration and approves the Mitigation Monitoring and Reporting Program.

PASSED, APPROVED and ADOPTED by the City Council of Clayton, California at a regular public meeting thereof held on the 2nd day of February, 2021 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

_____
Carl Wolfe, Mayor

ATTEST:

_____
Janet Calderon, City Clerk

[THESE WILL BE PART OF THE FINAL RESOLUTION DOCUMENT]
Exhibit A: Diablo Meadows Residential Subdivision Project Mitigation Monitoring and Reporting Program
Exhibit B: Errata Sheet
Exhibit C: Response to Comments

ORDINANCE NO.

AN ORDINANCE AMENDING CHAPTER 17.78.040.D FLOOR AREA OF THE CLAYTON MUNICIPAL CODE AND TO REZONE THE DIABLO MEADOWS RESIDENTIAL SUBDIVISION FROM R-15 TO PLANNED DEVELOPMENT AND AMEND THE CITY ZONING MAP

THE CITY COUNCIL
City of Clayton, California

THE CITY COUNCIL OF THE CITY OF CLAYTON DOES HEREBY FIND AS FOLLOWS:

WHEREAS the City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review (ENV-01-20); Zoning Map & Municipal Code Amendment (ZOA-02-20); Vesting Tentative Subdivision Map (MAP-01-20); Development Plan Permit (DP-01-20); and Tree Removal Permit (TRP-09-20) for the subdivision and development of eighteen single-family residences, 5 parcels, and private road on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1 ("Property"); and

WHEREAS the Project application requests to rezone the Property from R-15 to Planned Development (PD) and amend the zoning map for the City of Clayton and

WHEREAS the Project application also requests to amend the Clayton Municipal Code section 17.78.040.D Exemptions); and

WHEREAS the City determined that the Project is subject to the California Environmental Quality Act (CEQA); and

WHEREAS the City prepared an Initial Study/Mitigated Negative Declaration ("IS/MND") and Mitigation Monitoring and Reporting Program (MMRP) to evaluate the potential environmental impacts of the Project, in accordance with Section 15063 of Title 14 of the California Code of Regulations, the California Environmental Quality Act ("CEQA") Guidelines; and

WHEREAS a draft IS/MND were duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 15, 2020 and ending October 5, 2020; and

WHEREAS the Planning Commission held a duly noticed public hearing on December 8, 2020, as required by law to consider all the information presented by staff, information presented by the Applicant, and public testimony presented in writing and at the meeting.

WHEREAS, on December 8, 2020, the Planning Commission of the City of Clayton recommended that the City Council adopt this Ordinance amending the City of Clayton Zoning Map and Municipal Code as described.

WHEREAS, on February 2, 2021, the City Council held a duly noticed public hearing, accepting testimony from the applicant and the public, and discussed the Project and staff's recommended approval of the of the planning entitlements and rezone for the Project; and

WHEREAS, on February 2, 2021, the City Council adopted Resolution No. __-2021 determining that the project will not create substantial environmental impacts, as noted in the Initial Study and Mitigated Negative Declaration and adopted the Initial Study and Mitigated Negative Declaration and approved the Mitigation Monitoring and Reporting Program;

WHEREAS, the proposed zoning amendments are consistent with the General Plan goals, policies and implementation programs as the Project is consistent with the City's General Plan because the project density of 3.9 DU/AC is between the General Plan Medium Density range of 3.1 – 5.0 DU/AC. The request to rezone the entire site from R-15 to Planned Development (PD) is required to encompass the residential cluster development, private open space, and bioretention basins; and

WHEREAS, public necessity, conveniences and general welfare require the adoption of the proposed amendment for conformance with the Official Zoning Map and compliance with the Growth Management Program of the Contra Costa Transportation Authority.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CLAYTON, CALIFORNIA DOES ORDAIN AS FOLLOWS:

SECTION 1. The above recitals are true and correct and are hereby incorporated into this Ordinance.

SECTION 2. Amendment to Clayton Municipal Code Section 17.78.040.D. Clayton Municipal Code Section 17.78.040.D is hereby amended to read in its entirety as follows:

> D. Designated Planned Developments. Residences in the Chaparral Springs (Tracts 7303 and 7066), Dana Ridge (Tract 4504), Diablo Ridge (Tract 7766 (exclusive of detached residences on Condor Way and Keller Ridge Drive) and Tract 7767), Marsh Creek Park Villas (Tract 4240), Stranahan (Tract 7887), **and Diablo Meadows (Tract 9536)** Planned Developments. (Any additions or accessory buildings in these Planned Developments will continue to be subject to the site plan review requirements and the development standards originally approved for the respective Planned Development.)

SECTION 3. Amendment to the Zoning Map.
The Property is rezoned from R-15 to Planned Development (PD) and the Clayton zoning map is hereby amended to reflect the rezoning.

SECTION 4. CEQA. The City Council hereby determines the Initial Study/Mitigated Negative Declaration ("IS/MND"), and Mitigation Monitoring and Reporting Program (MMRP) evaluated the potential environmental impacts of the Project, is in accordance with Section 15063 of Title 14 of the California Code of Regulations, the California Environmental Quality Act ("CEQA") Guidelines and was approved and adopted as provided for in Resolution No. ___;

SECTION 4. Severability. If any section, subsection, sentence, clause, or phrase of this Ordinance, or the application thereof to any person or circumstances, is held to be unconstitutional or to be otherwise invalid by any court of competent jurisdiction, such invalidity shall not affect other provisions or clauses of this Ordinance or application thereof which can be implemented without the invalid provisions, clause, or application, and to this end such provisions and clauses of the Ordinance are declared to be severable.

SECTION 5. Conflicting Ordinances Repealed. Any Ordinance or part thereof, or regulations in conflict with the provisions of this Ordinance, are hereby repealed. The provisions of this Ordinance shall control with regard to any provision of the Clayton Municipal Code that may be inconsistent with the provisions of this Ordinance.

SECTION 6. Effective Date and Publication. This Ordinance shall become effective thirty (30) days from and after its passage. Within fifteen (15) days after the passage of the Ordinance, the City Clerk shall cause it to be posted in three (3) public places heretofore designated by resolution by the City Council for the posting of ordinances and public notices. Further, the City Clerk is directed to cause the amendments adopted in Section 2 of this Ordinance to be codified into the City of Clayton Municipal Code.

The foregoing Ordinance was introduced and first read at a regular noticed public meeting of the City Council of the City of Clayton held on February 2, 2021.

Passed, adopted, and ordered posted by the City Council of the City of Clayton at a regular public meeting held on _____, 2021 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

_____
Carl Wolfe, Mayor

ATTEST:

_____
Janet Calderon, City Clerk

APPROVED AS TO FORM

_____
Malathy Subramanian, City Attorney

APPROVED BY ADMINISTRATION

_____
Reina J. Schwartz, City Manager

ATTACHMENT C

RESOLUTION NO. ____-2021

A RESOLUTION APPROVING THE DEVELOPMENT PLAN (DP-01-20); THE VESTING TENTATIVE PARCEL MAP (MAP-01-2020); AND THE TREE REMOVAL PERMIT (TRP-09-2020) FOR THE DIABLO MEADOWS SINGLE FAMILY RESIDENTIAL PROJECT.

THE CITY COUNCIL
City of Clayton, California

WHEREAS, The City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review ENV-01-20; Zoning Map & Municipal Code Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20 for the subdivision and development of eighteen single-family residences, 5 parcels, and private road on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS the Planning Commission held a duly noticed public hearing on December 8, 2020, as required by law to consider all the information presented by staff, information presented by the Applicant, and public testimony presented in writing and at the meeting.

WHEREAS, on December 8, 2020, the Planning Commission, by 5-0 vote, approved a motion to adopt a Resolution recommending the Clayton City Council approve with conditions the planning entitlements for the project, including Development Plan Permit (DP-01-20); the Vesting Tentative Parcel Map (MAP-01-2020); and the Tree Removal Permit (TRP-09-2020);

WHEREAS, on December 8, 2020, the Planning Commission, by 5-0 vote, approved a motion to adopt a Resolution recommending the Clayton City Council approve with conditions the Zoning Map & Municipal Code Amendment (ZOA-02-20), rezoning the site from R-15 to PD and The Clayton Municipal Code 17.78.040.D Floor Area Exceptions;

WHEREAS, on December 8, 2020, the Planning Commission, by 5-0 vote, approved a motion to adopt a Resolution recommending the Clayton City Council adopt the Environmental Review (ENV-01-20);

WHEREAS, on February 2, 2021, the City Council held a duly noticed public hearing, accepting testimony from the applicant and the public, and discussed the project and staff's recommended approval of the Initial Study and Mitigated Negative Declaration pursuant to the CEQA Guidelines and the recommended conditional approval of the planning entitlements for the project; and

WHEREAS proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, on February 2, 2021, the City Council adopted Resolution No. ___-2021 determining that the project will not create substantial environmental impacts, as noted in the Initial Study and Mitigated Negative Declaration and adopted such and approved the Mitigation and Monitoring Reporting Program;

NOW THEREFORE, BE IT RESOLVED, the City Council of Clayton does determine the foregoing recitals are true and correct and makes the following findings for approval of the Project:

NOW THEREFORE BE IT FURTHER RESOLVED, the City Council hereby makes the following required findings for approval of a Vesting tentative Map Permit based upon information in the staff reports and project files, as well as testimony at the public hearings, and the *Diablo Meadows Residential Subdivision Initial Environmental Study/Negative Declaration*:

A. Based upon information in the staff reports and project files, as well as testimony at the public hearings, and the *Diablo Meadows Residential Subdivision Initial Study/Negative Declaration,* together with its proposed design and improvements, as conditioned, are consistent with the *General Plan Medium Density* designations and policies for the site because the Single-Family Medium Density is 3.1 to 5 units per acre and the project is 3.9 units per acre

B. The project, as conditioned (including Rezoning the site from R-15 to Planned Development), conforms to subdivision and zoning regulations because the vesting tentative map would not place the residents of the subdivision or the immediate community, or both, in a condition dangerous to their health or safety, or both and because the Planned Development:

1. Will result in a significantly better quality development than would occur with a non-flexible zone and that the factors specified in Section 17.28.160 have been thoroughly evaluated;
2. The open space requirements of Section 17.28.100;
3. The development is consistent with the City's General Plan;
4. The development will be compatible with and in harmony and character with the City as a whole and with adjoining areas and uses;
5. The non-residential uses is needed at the locations to provide adequate facilities and will fit harmoniously into and will not have adverse effects upon the adjacent or surrounding areas;
6. The development's environmental impacts have been reviewed pursuant to CEQA; and
7. The applicant intends to start construction within the allotted time as specified in Section 17.28.190.

C. The proposed single-family residential, stormwater detention, and open space of the site is compatible with the existing single-family residential uses surrounding the site.

D. The site is physically suitable for the residential development and density, including the stormwater detention basin, as conditioned because development plan, with its cluster development, preservation of natural open space, single-story homes, rear yards, and landscaping inclusive of many native trees reflects the Community Design Element goal of retaining "the rural and historical character of Clayton's neighborhoods" and Objective 2 to "maintain landscape and natural vegetation found in Clayton as a means to provide greenery, open space, development buffer and rural atmosphere".

E. The project will incorporate numerous mitigation measures identified in the project's *Initial Environmental Study/Negative Declaration* and thereby reduce potentially significant impacts to less-than-significant levels. As a result, the project, as conditioned, will not result in any significant effects on the environment, and there is no evidence that the proposed project will have the potential for any adverse effect on fish and wildlife resources or their habitat, as defined in Section 711.2 of the Fish and Game Code.

F. Since the project site is not overlain by any existing easements for public access, the project, as conditioned, will not conflict with any easements acquired by the public for access through or use of the subject site.

NOW THEREFORE BE IT FURTHER RESOLVED, the City Council hereby makes the following required findings for approval of a Development Plan Review Permit and Tree Removal Permit, based upon information in the staff reports and project files, as well as testimony at the public hearings, and the *Diablo Meadows Residential Subdivision Initial Environmental Study/Negative Declaration*:

A. That the application of the Planned Development District, as proposed, will result in a significantly better-quality development than would occur with a non-flexible zone and that the following factors specified in CMC 17.28.160 have been thoroughly evaluated:

   a. Natural Open Space: The projects over 4-acres of open space will be functional, safe, attractive, and adequate;

   b. Vehicular Access: The project provides adequate parking, pedestrian access, trails, and safe separation from vehicles;

   c. Landscape Design: The project complies with the water conserving guidelines found in MC Chapter 17.80.

   d. Site Design: The project as conditioned allows for distant views from neighboring projects, integration of visual focal points of the open spaces. The projects building grouping and sensitive siting on the flatter terrain minimizes the necessity for retaining walls.

e. Design Features: The project depicts harmonious integration of a variety of architectural facades that mimic the rural architecture found in Clayton and uses materials and colors and site layouts to prevent design monotony and provides for landscape screening of vehicular parking.

f. Ownership/Maintenance of Common Areas: That project Conditions require a homeowner's association to maintain the common areas of the development for the duration of its economic life; and

B. That the project complies with the open space requirements of CMC 17.28.100 by providing over 4 acres of passive and active open space; and

C. That the development is consistent with the City's General Plan because the project density of 3.9 DU/AC is between the General Plan Medium Density range of 3.1 – 5.0 DU/AC.; and

D. That the development will be compatible with and in harmony and character with the City as a whole and with adjoining areas and uses because the cluster development, preservation of natural open space, single-story homes, rear yards, and landscaping inclusive of many native trees reflects the Community Design Element goal of retaining "the rural and historical character of Clayton's neighborhoods" and Objective 2 to "maintain landscape and natural vegetation found in Clayton as a means to provide greenery, open space, development buffer and rural atmosphere".; and

E. That the development's environmental impacts have been reviewed pursuant to CEQA by the City Council's adoption of the Mitigated Negative Declaration and the approval of the Mitigation Monitoring and Reporting Program; and

F. The applicant intends to start construction within the allotted time of eighteen (18) months after the approval by the City Council of the Development Plan Permit, as specified in Section 17.28.190; and

G. The proposed tree removal, along with the proposed tree replacement will not adversely impact the health, safety, and general welfare of the residents because . the trees needs to be removed to allow construction of an improvement that is related to a development application.

NOW THEREFORE BE IT FURTHER RESOLVED, the City Council does hereby approve the Development Plan (DP-01-20); the Tentative Parcel Map (MAP-01-2020); and the Tree Removal Permit (TRP-09-2020) for Diablo Meadows, an 18 single family residential development located on two adjacent parcels with a total area of 8.6-acres, located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1, which will become effective upon the effective date of Ordinance No. ____ and subject to the following conditions:

PLANNING CONDITIONS

ATTACHMENT C

INSERT APPROVED COA's

PASSED, APPROVED and ADOPTED by the City Council of Clayton, California at a regular public meeting thereof held on the 2nd day of February, 2021 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

_____
Carl Wolfe, Mayor

ATTEST:

_____
Janet Calderon, City Clerk

Diablo Meadows Project
Initial Study/Mitigated Negative Declaration
ENV-01-2020

CITY OF CLAYTON

Founded 1857 .. Incorporated 1964

City of Clayton
Community Development Department
6000 Heritage Trail
Clayton, California 94517
(925) 673-7340

September 2020

TABLE OF CONTENTS

INTRODUCTION **1**

PROJECT/APPLICANT INFORMATION **2**

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED **3**

ENVIRONMENTAL CHECKLIST **3**

DETERMINATION **5**

BACKGROUND **5**

PROJECT DESCRIPTION **6**

LIST OF MITIGATION MEASURES **18**

EVALUATION OF ENVIRONMENTAL IMPACTS **25**

1. AESTHETICS. *25*
2. AGRICULTURE RESOURCES. *29*
3. AIR QUALITY. *31*
4. BIOLOGICAL RESOURCES. *41*
5. CULTURAL RESOURCES. *61*
6. ENERGY *64*
7. GEOLOGY AND SOILS. *68*
8. GREENHOUSE GAS EMISSIONS *74*
9. HAZARDS AND HAZARDOUS MATERIALS. *82*
10. HYDROLOGY AND WATER QUALITY *88*
11. LAND USE. *95*
12. MINERAL RESOURCES. *97*
13. NOISE. *98*
14. POPULATION AND HOUSING. *102*
15. PUBLIC SERVICES. *104*
16. RECREATION. *107*
17. TRANSPORTATION. *108*
18. TRIBAL CULTURAL RESOUCES *112*
19. UTILITIES AND SERVICE SYSTEMS. *114*
20. WILDFIRE. *118*
21. MANDATORY FINDINGS OF SIGNIFICANCE. *121*

STAFF AND SOURCES **124**

TABLES

Table 1 BAAQMD Thresholds of Significance 32
Table 2 Maximum Construction Emissions (lbs/day) 33
Table 3 Unmitigated Maximum Operational Emissions 34
Table 4 Operational GHG Emissions 76

Table 5 Project Consistency with the 2017 Scoping Plan 76
Table 6 Vibration Source Levels for Construction Equipment 99
Table 7 Weekday Project Trip Generation Rates and Estimates 109

FIGURES

Figure 1: Regional Location Map 7
Figure 2 Project Site 8
Figure 3 Vesting Tentative Subdivision Map 10
Figure 4 Preliminary Development Plan 11
Figure 5 Preliminary Landscaping Plan 13
Figure 6 Common Area Landscape Plan 15
Figure 7 Preliminary Grading and Drainage Plan 16
Figure 8 Preliminary Utility Plan 17
Figure 9 Field Verified Landcover Map 43
Figure 10 Wetland Delineation 53
Figure 11 Tree Exhibit 57
Figure 12 Stromwater Control Plan 91

APPENDICES

Appendix A: CalEEMod Modeling Results
Appendix B: Planning Survey Report
Appendix C: Geotechnical Investigation
Appendix D: Phase 1 Environmental Site Assessment

INTRODUCTION

DeNova Homes, Inc., has proposed to subdivide a portion of an 8.68-acre site into 18 single-family residential lots. The project site is bound by single-family homes to the north, northwest, south and east. Mitchell Canyon Road borders the project site to the east, and the CEMEX Clayton Quarry is located approximately 1,000 feet to the south of the site. Clayton city limits border the southern and western boundaries of the project site.

This Initial Study/Mitigated Negative Declaration (IS/MND) identifies potentially significant environmental impacts for the following environmental areas:

- Biological Resources;
- Cultural Resources;
- Geology and Soils;
- Hazards and Hazardous Materials; and
- Noise.

Environmental analysis determined that measures were available to mitigate potential adverse impacts to insignificant levels. As a result, a Mitigated Negative Declaration has been prepared pursuant to Public Resources Code Section 21064.5, and Article 6 of the California Environmental Quality Act (CEQA) Guidelines.

Pursuant to the requirements of CEQA Guidelines Section 15071, this Mitigated Negative Declaration describes the proposed project; identifies, analyzes, and evaluates the potential significant environmental impacts, which may result from the proposed project; and identifies measures to mitigate adverse environmental impacts. With implementation of the included mitigation measures, the project would not have a significant impact on the environment.

PROJECT/APPLICANT INFORMATION

1.	Project Title:	Diablo Meadows Project
2.	Lead Agency Name and Address:	City of Clayton 6000 Heritage Trail Clayton, CA 94517
3.	Contact Person and Phone Number:	Matthew Feske Community Development Director City of Clayton (925) 673-7343
4.	Project Location:	West of Mitchell Canyon Road and north of Herriman Court Clayton, CA 94517
5.	Project Sponsor's Name and Address:	DeNova Homes, Inc. 1500 Willow Pass Court Concord, CA 94520 Contact: Kerri Watt
6.	Existing General Plan Designation:	Single-Family Medium Density (MD)
7.	Existing Zoning Designation:	Single-Family Residential (R-15)
8.	Proposed Zoning Designation:	Planned Development (PD)

9. Project Description Summary:

The proposed project would include subdivision of the site and subsequent development of 18 single-family residential units and three accessory dwelling units (ADUs) on 18 lots within the easterly portion of an 8.68-acre subject property, while five additional parcels would be used for stormwater retention or maintained as open space, and a street right-of-way. Access to the site would be provided by a proposed private street connected to Mitchell Canyon Road, which would terminate in a turnaround. Approximately 4.36 acres of the project site would be preserved as open space. City of Clayton entitlements include a Rezone, a Development Plan Permit, a Vesting Tentative Map, Site Plan Review, and a Tree Removal Permit.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project. The following Evaluation of Environmental Impacts identifies at least one impact that is "Less Than Significant with Mitigation Incorporated" for each of the checked environmental factors.

☐ **Aesthetics**	☐ **Agriculture and Forest Resources**	☐ **Air Quality**
✖ **Biological Resources**	✖ **Cultural Resources**	☐ **Energy**
✖ **Geology and Soils**	☐ **Greenhouse Gas Emissions**	✖ **Hazards and Hazardous Materials**
☐ **Hydrology and Water Quality**	☐ **Land Use and Planning**	☐ **Mineral Resources**
✖ **Noise**	☐ **Population and Housing**	☐ **Public Services**
☐ **Recreation**	☐ **Transportation**	☐ **Tribal Cultural Resources**
☐ **Utilities and Service Systems**	☐ **Wildfire**	☐ **Mandatory Findings of Significance**

ENVIRONMENTAL CHECKLIST

The following checklist contains the environmental checklist form presented in Appendix G of the CEQA Guidelines. The checklist form is used to describe the impacts of the proposed project. A discussion follows each environmental issue identified in the checklist. For this checklist, the following designations are used:

Potentially Significant Impact: An impact that could be significant, and for which no mitigation has been identified. If any potentially significant impacts are identified, an EIR must be prepared.

Less Than Significant with Mitigation Incorporated: An impact that requires mitigation to reduce the impact to a less-than-significant level.

Less-Than-Significant Impact: Any impact that would not be considered significant under CEQA relative to existing standards.

No Impact: The project would not have any impact.

As noted in Section 21002.1 of the California Public Resources Code, "[t]he purpose of an environmental impact report is to identify the significant effects on the environment of a project[.]" Consequently, the scope of analysis prepared for a proposed project under CEQA is only required to consider whether implementation of the proposed project would create new impacts on the environment, and such analyses are not required to demonstrate whether effects from existing environmental conditions would occur on the project. The focus of CEQA on a project's impacts to the environment were confirmed by the California Supreme Court decision in the case of *California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal. 4th 369*. The decision clarified that CEQA does not require lead agencies to analyze the impact of existing environmental conditions on a project's future users or residents unless the project will exacerbate the existing environmental hazards or conditions. In the case of the proposed project, the focus of CEQA on a project's impacts on the environment limits the degree to which this

CEQA analysis may address impacts that could result from existing environmental conditions on future residents. This important distinction particularly relates to on-going operations of the CEMEX quarry plant, and associated heavy-duty haul truck trips along Mitchell Canyon Road. The operations of the CEMEX quarry plant represent an existing condition of the environmental setting for the project, and implementation of the proposed project would not have the potential to alter the existing CEMEX operations or exacerbate the potential for impacts to occur due to the CEMEX quarry plant operations. Due to the focus of CEQA on a project's potential impacts on the environment, not the environment's potential effect on a project, potential effects that could be experienced by future on-site residents due to CEMEX operations, such as excess noise and vibration, traffic congestion, or exposure to air pollutants, are not within the purview of CEQA analysis. Such issues will be considered by City staff, as may be warranted, during the planning review of the project, and included within the Staff Report prepared for the proposed project.

Per Public Resources Code Section 21002.1, the analysis contained herein focuses on the potential for the proposed project to result in impacts on the environment.

DETERMINATION

On the basis of this initial evaluation:

☐ I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

X I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case since the Project proponent has made revisions in the Project and has agreed to the mitigation measures listed in "Section V. List of Mitigation Measures." I further find that the mitigation measures and the information in this study constitute a MITIGATED NEGATIVE DECLARATION in accordance with Section 15071 of the State CEQA Guidelines.

☐ I find that the Proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature Date

Matthew Feske
Community Development Director

BACKGROUND

This IS/MND identifies and analyzes the potential environmental impacts of the current proposal for the Diablo Meadows Project. The information and analysis presented in this document is organized in accordance with the order of the CEQA checklist in Appendix G of the CEQA Guidelines. If the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures that must be applied to the project are prescribed.

This IS/MND relies on site-specific studies prepared for the project, as well as information provided in the City of Clayton General Plan and associated EIR.

PROJECT DESCRIPTION

A description of the project location and setting, the components of the project, and discretionary actions is provided below.

Site Location and Setting

The project site consists of two parcels constituting 8.68 acres of land located west of Mitchell Canyon Road and north/west of Herriman Court in the City of Clayton, California (see Figure 1 and Figure 2). The site is identified by Assessor's Parcel Numbers (APN) 121-090-011-2 and 121-090-016-1. Clayton city limits border the southern and western boundaries of the project site; thus, the project site is within the city limits of Clayton, but the areas south and west of the project site are outside city limits, within an unincorporated portion of Contra Costa County. A portion of the site's northwestern property line is bordered by the City of Concord. The site is designated Single-Family Medium Density (MD) per the City of Clayton General Plan and zoned Single-Family Residential (R-15).

The approximately 4.32-acre development area abuts Mitchell Canyon Road and is dominated by annual grassland, but also consists of moderate growths of trees and shrubs. A shed and water well are located within the northwestern corner of the development area. The development area is generally flat with a gentle downward slope towards the west. In comparison, the 4.36-acre open space area, located within the western portion of the project site, would not be developed and contains a seasonal wetland feature and an ephemeral stream which flows south to north. Generally, the terrain within the open space area slopes steeply downward towards the north. Figure 2 depicts the project site, including the development area and the areas to be preserved as open space.

<u>Surrounding Land Uses</u>

The project site is bordered primarily by single-family residences to the northwest, north, and east and south, while vacant land borders the project site to the west and southwest. Clayton city limits border the western and southern boundaries of the project site. A CEMEX quarry plant is located approximately 1,000 feet south, just beyond the vacant land bordering the project site.

Figure 1
Regional Location Map

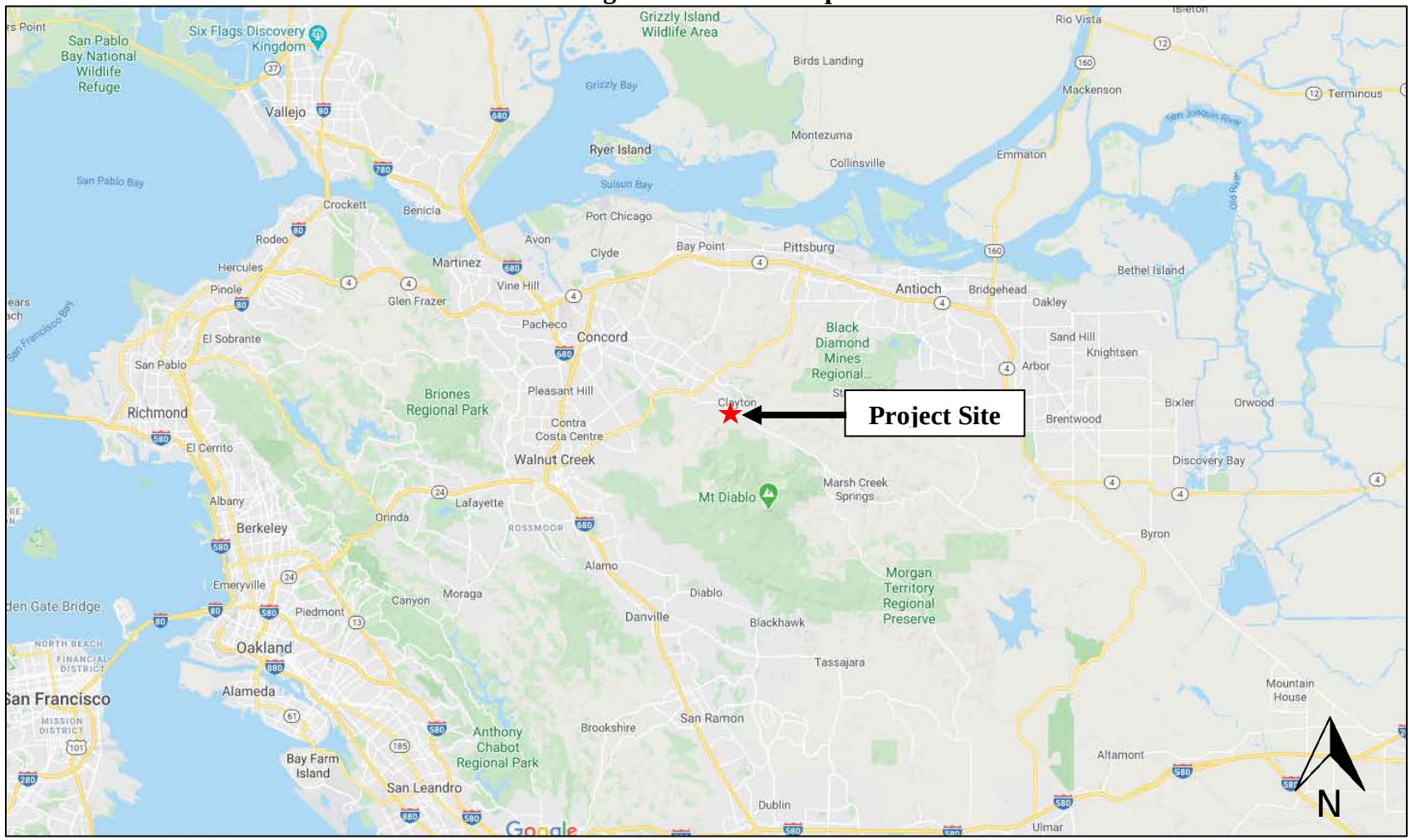


Figure 2
Project Site



**Boundaries approximate.*

Project Components

The proposed project would include grading of the development area and subsequent construction of 18 single-family, one-story residences and three ADUs on the 18 lots. The density of the proposed project would be approximately 3.9 dwelling units per acre (du/ac), which would be consistent with the current General Plan density allowance for the site (3.1 to 5.0 du/ac). The proposed residences would be accessed by a new private internal roadway connecting to Mitchell Canyon Road, which would terminate in a turnaround in accordance with East Contra Costa Fire Protection District standards. The proposed residences would be "clustered" so as to avoid grading or development on the steeper slopes and drainage features located within the open space area.

The proposed project would require approval of a Rezone, a Development Plan Permit, a Vesting Tentative Map, Site Plan Review, and a Tree Removal Permit. Each of the project components is discussed in detail below. With respect to meeting the City's affordable housing requirements, the proposed project would develop Lot 18 as affordable housing to satisfy the City's requirement for ten percent below-market rate homes. The primary home would be deed-restricted for rent to a moderate-income household, while an ADU would be deed-restricted for rent to a low-income household. Rental of the two units on Lot 18 would be managed by the Yellow-Roof Foundation, a non-profit public charity.

Rezone

The project site is currently zoned R-15. An R-15 zoning designation stipulates a minimum lot size of 15,000 square feet (sf), which would allow for up to 25 lots on the 8.68-acre project site. However, due to the steep topography and sensitive environmental features within the western portion of the project site, residential development would only be feasible on approximately 4.62 acres of the project site. Buildout pursuant to the current zoning designation would result in 11 residential units and would not meet the City's designated General Plan density range of 3.1-5.0 du/ac. Development of the project site with 18 single-family residential units would result in a proposed density of 3.9 du/ac. Therefore, the proposed project would satisfy the current land use density requirements with the approval of a request to Rezone the entire site from R-15 to Planned Development (PD) to allow for reduced lot sizes and setbacks.

Vesting Tentative Subdivision Map

The proposed Vesting Tentative Subdivision Map would subdivide the project site into 18 single-family residential lots, five parcels for stormwater retention and open space uses, and a street right-of-way (see Figure 3 and Figure 4). Parcels A and E would contain the two bio-retention basins, while Parcels B, C, and D, which consist of a total of 4.36 acres, would contain the open space area, inclusive of the existing seasonal wetland and ephemeral stream segments.

Figure 3
Vesting Tentative Subdivision Map

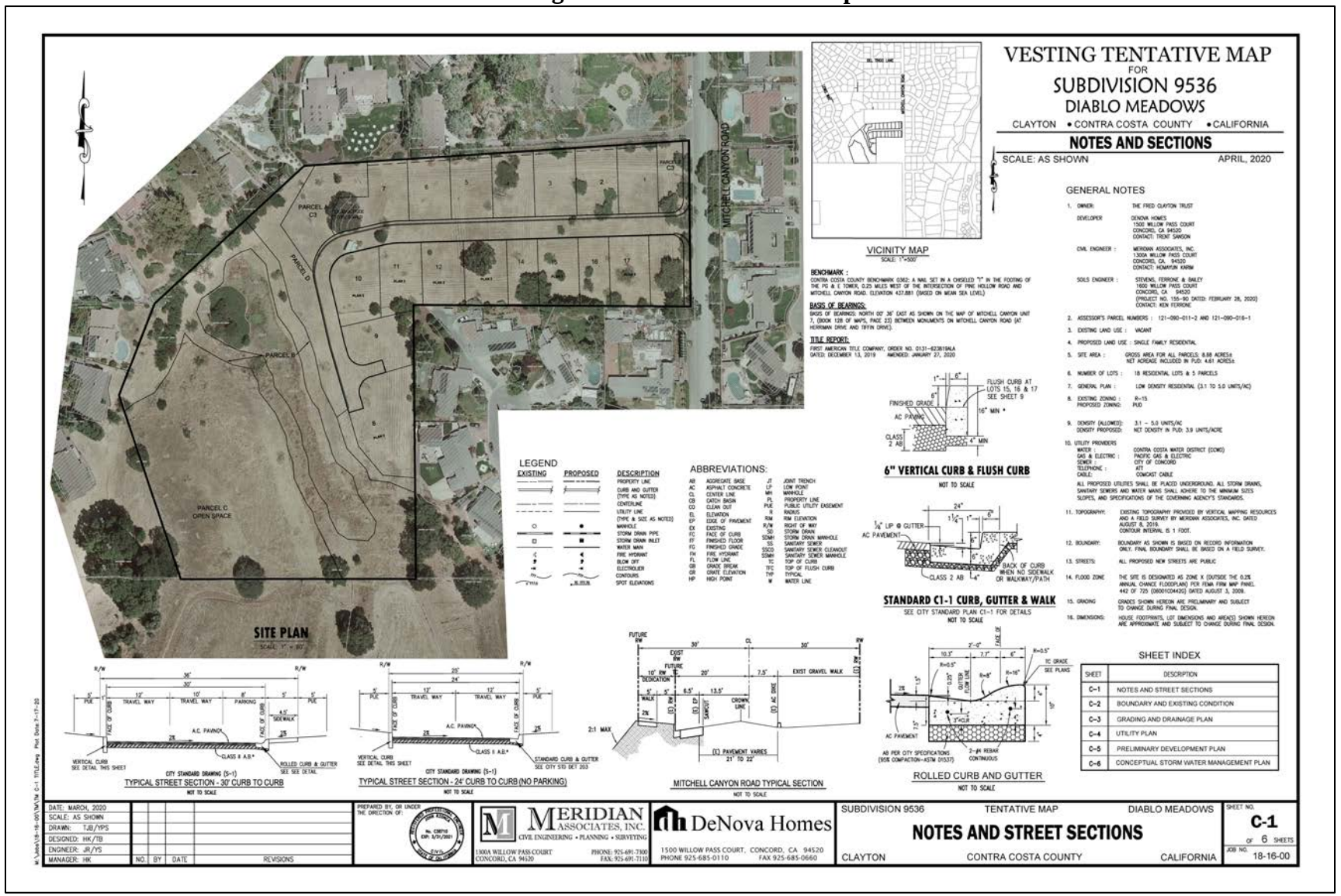
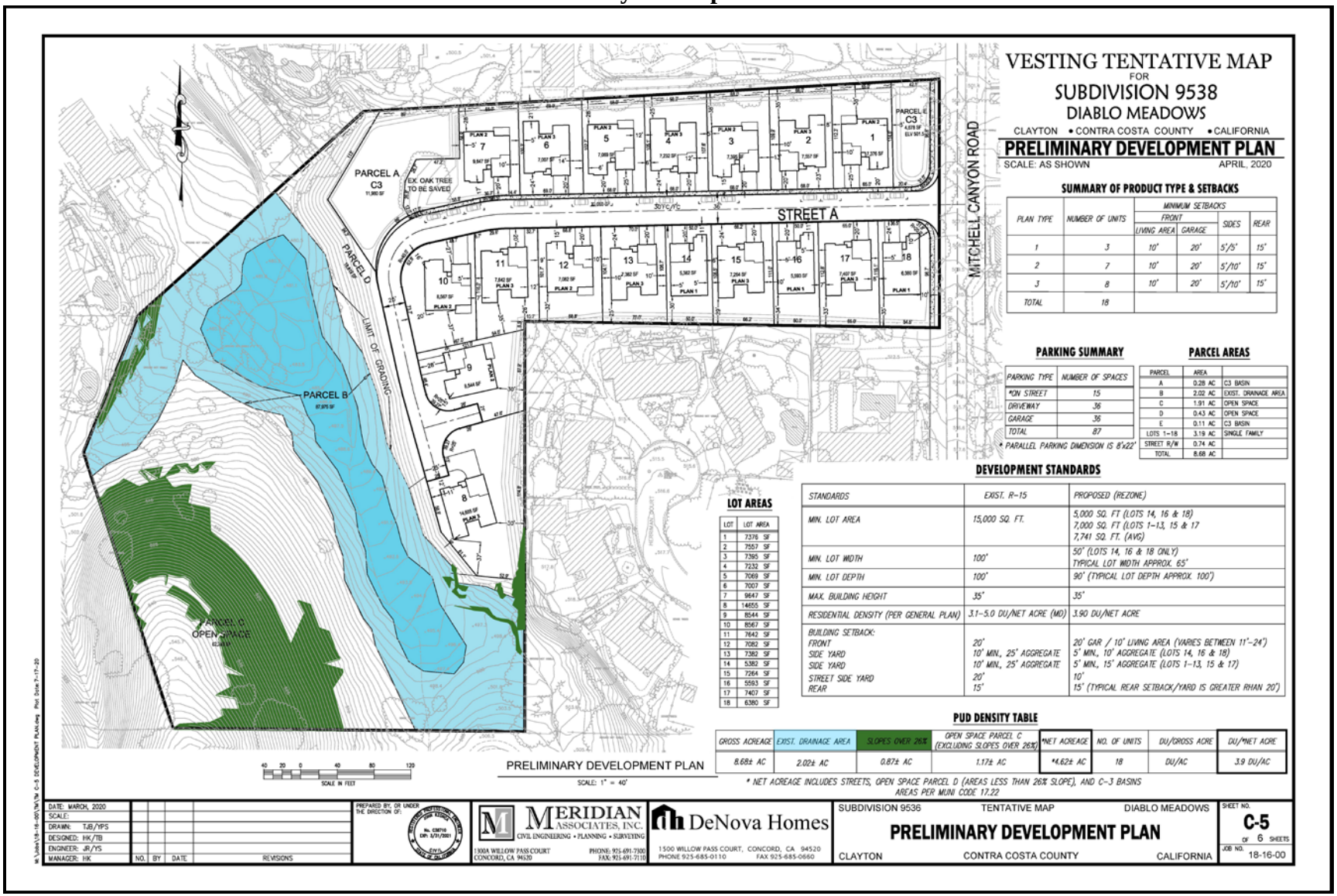


Figure 4
Preliminary Development Plan



Access to the site would be provided by a new private roadway from Mitchell Canyon Road along the eastern border of the project site, which would terminate in a turnaround. A proposed sidewalk would be provided along the project's Mitchell Creek Road frontage and along the northern side of the internal street. The open space area of the project site, which contains steep topography, a seasonal wetland, and a drainage channel, would be preserved in perpetuity and would not be affected by grading or construction activities.

Development Plan Permit

As discussed previously, the project site would be rezoned to PD, which would require a Development Plan Permit. Development Plan considerations include, but are not limited to, architecture and landscaping, grading, and on- and off-site improvements, including utilities.

Architecture

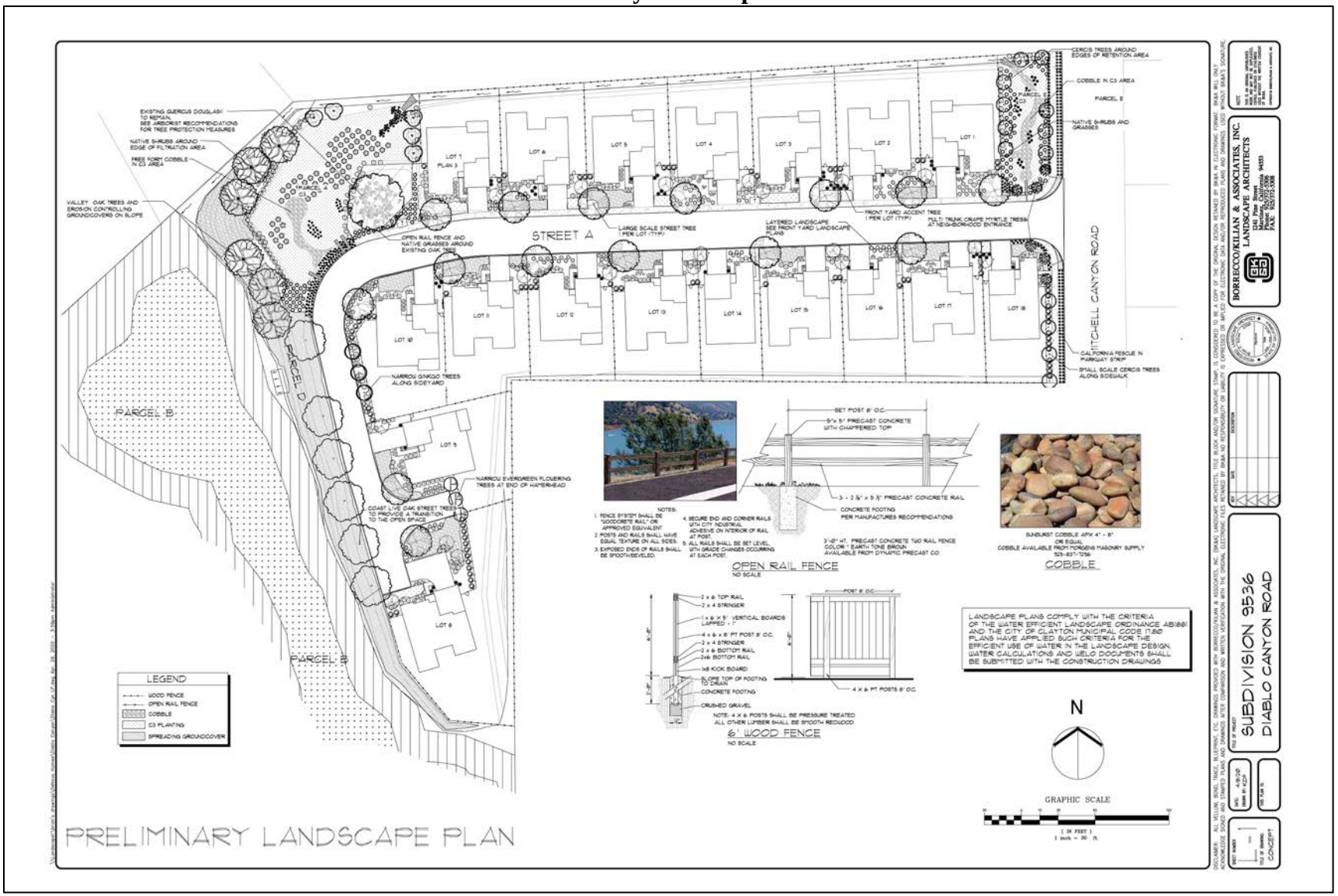
Several different floor plans and architectural styles are planned for the proposed residences. Three homes are proposed to have three bedrooms, two bathrooms, a two-car garage, with an approximately 347-sf ADU. The ADUs would be designed as studios that offer complete independent living amenities, including a living area, kitchen (including a full range and oven, refrigerator, and sink), a separate sleeping area and bathroom, and a stacked washer-dryer area. Seven homes would have either three bedrooms and 2.5 bathrooms, or four bedrooms with three bathrooms, and two-car garages. It should be noted that the four-bedroom homes would contain a second-story "pop-up" containing the fourth bedroom and third bathroom. The pop-up would be incorporated within the ridgeline of the home, thereby limiting the total height increase of the residences with pop-ups to less than four feet. The remaining eight homes would each contain four bedrooms with 2.5 bathrooms and a two-car garage.

It should be noted that the Rezone from R15 to PD would permit a reduction in lot sizes and setback requirements needed to fit all 18 single-family homes and three ADUs on the development site and ensure compliance with Single-Family Medium Density land use density requirements (3.1-5.0 du/ac). Minimum lot sizes would be reduced from 15,000 sf to an average of 7,400 sf. Proposed setbacks would be reduced from 20-feet to 10-feet for living areas; from 25 feet to 10-15 feet for side yards; and from 20 feet to 10 feet for street side yards.

Landscaping

As shown in Figure 5, the proposed project would incorporate landscaping features throughout the developed portions of the project site and along the project frontage. Four plant palettes are proposed for the future residences, each including one 15-gallon tree and several one-gallon to five-gallon flowering shrubs planted in the front yards of residences. In addition, tall evergreen shrubs would be planted alongside six-foot tall wooden fences separating the residential lots.

Figure 5
Preliminary Landscape Plan



Landscaping within common areas would include decorative cobble-stone within the bio-retention areas and along the project frontage (see Figure 6). Native oaks and drought-tolerant shrubs and grasses would provide erosion control near the slope between the development area and the open space area. In addition, wood-grain, two-rail open fencing would surround an existing large oak tree within Lot #7 and border the project frontage along Mitchell Canyon Road.

Grading

The export or import of off-site soils would not be required as earthwork within the site is anticipated to balance. Per the Preliminary Grading Plan, the site would be graded to create building pads for the 18 residential lots and the proposed roadway (see Figure 7). A bench for the proposed western bio-retention basin would be created to the west of the proposed building pads within Lot #1 through Lot #7. The slope between the development area and the open space area would be 2:1. The western open space portion of the project site would not be affected by on-site grading.

Utilities

Eight-inch water and sewage connections would be installed within the proposed roadway and connect to existing water and sewer infrastructure within Mitchell Canyon Road (see Figure 8). With respect to stormwater, runoff from pavement and rooftop areas from the western-most residences would drain to a new bio-retention basin west of Lot #7. Treated stormwater from the bio-retention basin would flow through an 18-inch storm drain within the new internal roadway and discharge through a proposed storm drain outfall within the open space area (Parcel D). The storm drain outfall would incorporate an energy dissipator to slow discharged water and protect slopes from erosion. Stormwater from the eastern-most residences, nearer to Mitchell Canyon Road, would flow into the proposed bio-retention basin east of Lot #1. Treated water from the eastern bio-retention basin would flow through a new 12-inch storm drain connecting to an existing storm drain within Mitchell Canyon Road.

Development Plan Review

All development occurring on the project site would be subject to Development Plan Review consistent with Chapter 17.44 of the Clayton Municipal Code. The Development Plan Review process would include a review of the exterior appearance of all proposed facilities and structures to ensure compliance with the City's established General Plan policies. Importantly, the proposed residences would incorporate design features intended to reflect the rural character of surrounding development, including, but not limited to, single-story development not more than 27 feet in height, wood-grain two-rail open fencing, and preservation of on-site open space and the existing drainage channel.

Figure 6
Common Area Landscape Plan

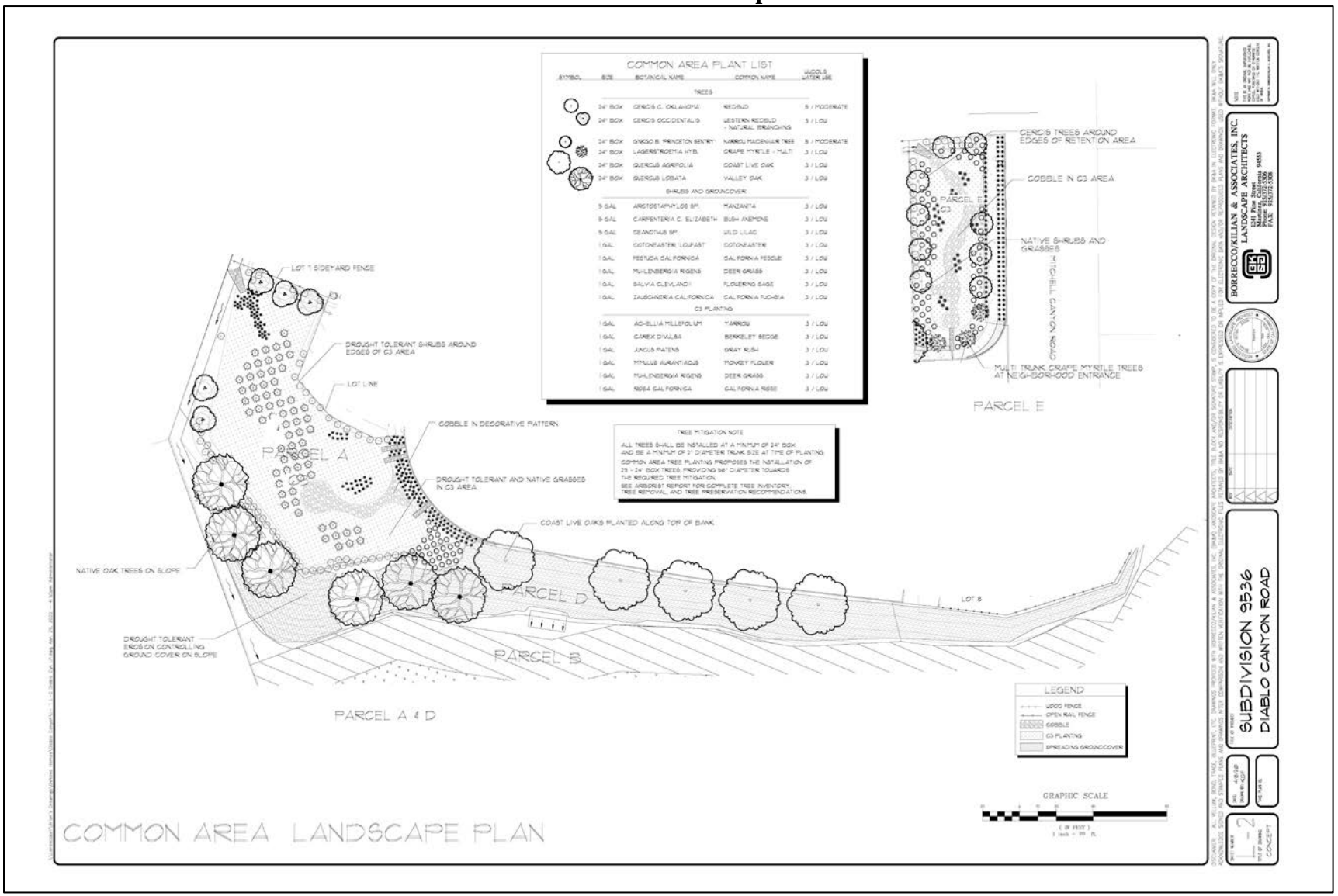


Figure 7
Preliminary Grading and Drainage Plan

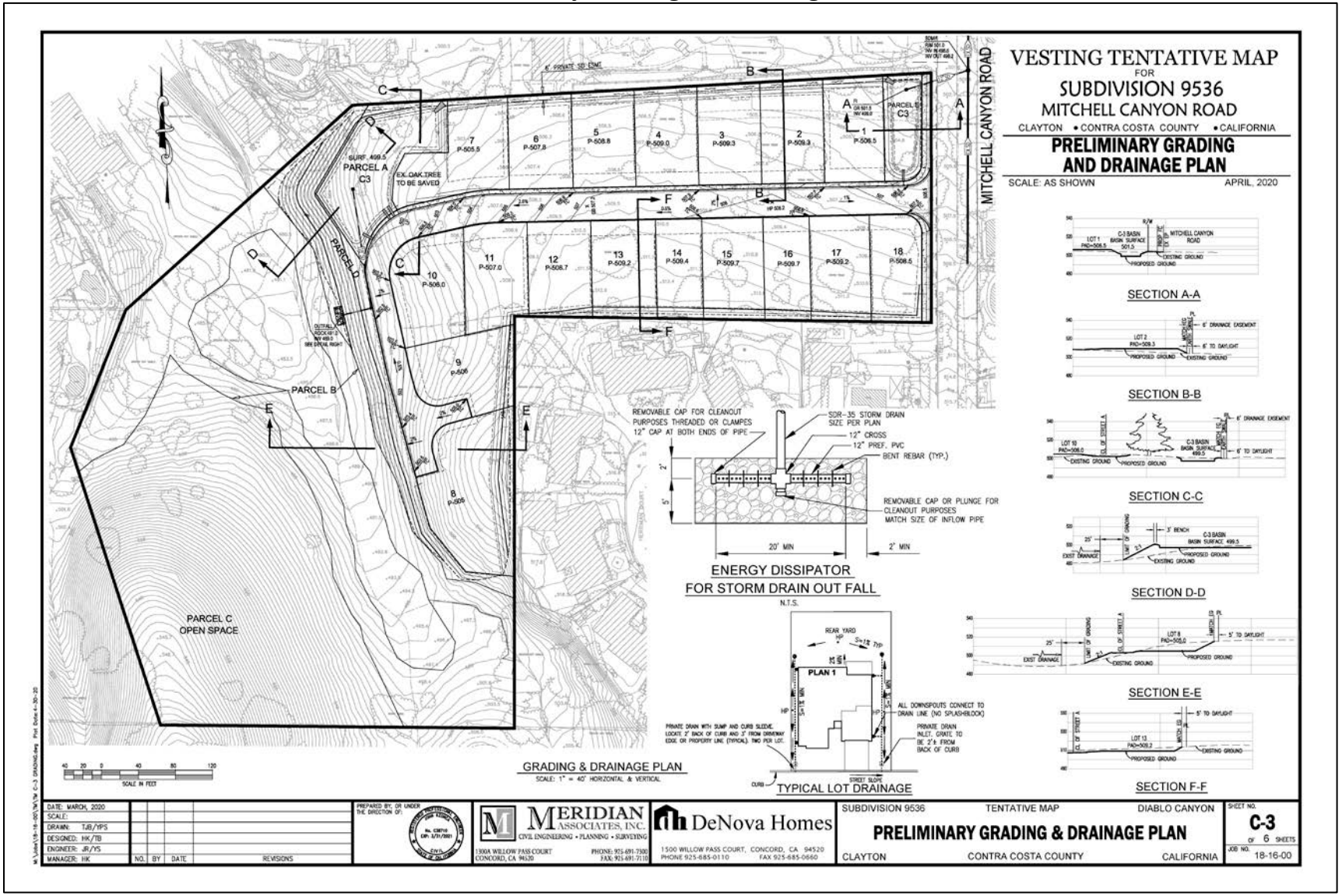
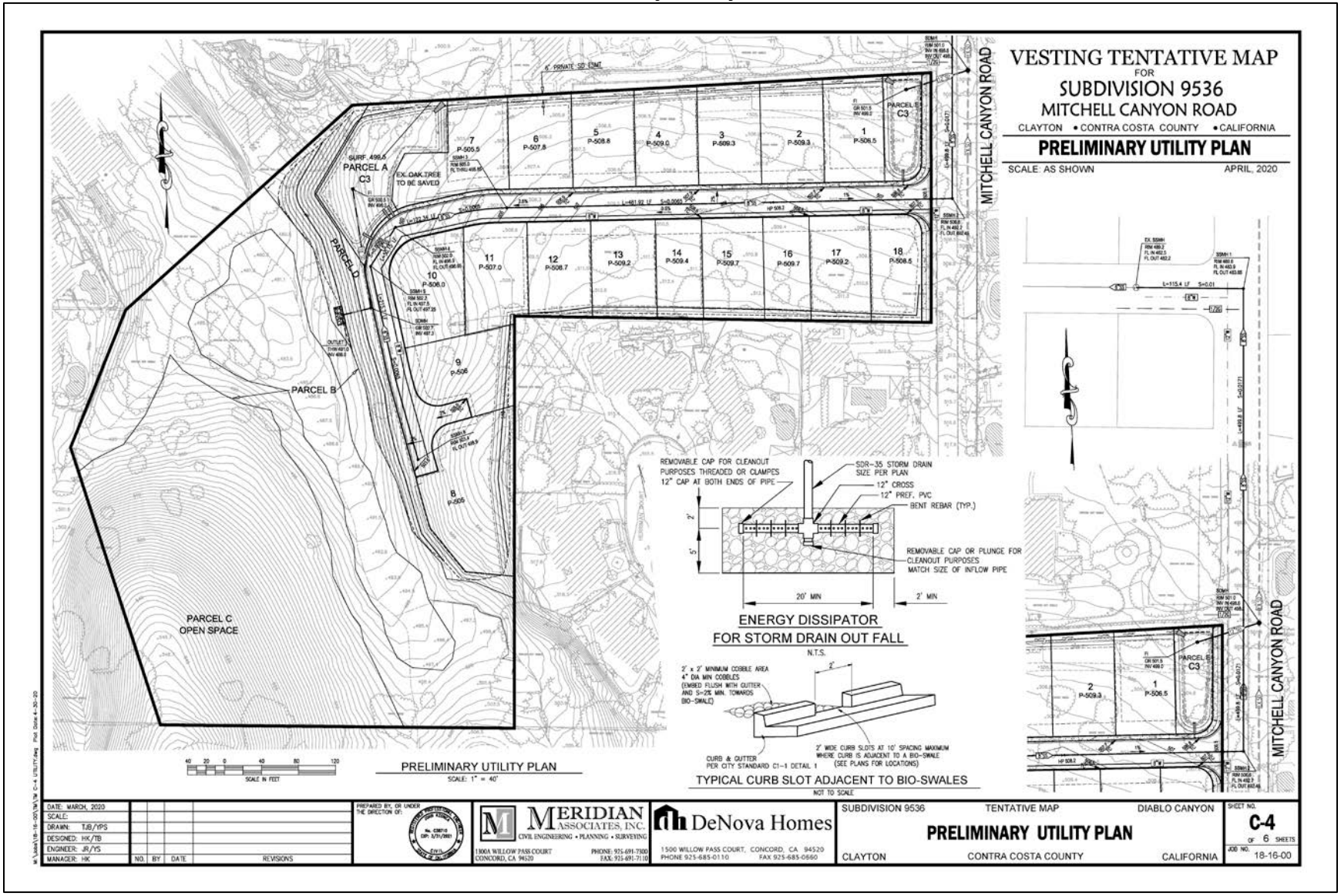


Figure 8
Preliminary Utility Plan



Tree Removal Permit

Per the Arborist Report prepared for the project site, 58 trees are located within the project site or in close enough proximity to suffer potential root damage from development. Of the 37 trees recommended for removal, 34 are protected species according to the City of Clayton Tree Protection Ordinance. Therefore, the proposed project would require approval of a Tree Removal Permit to remove the existing trees. The largest tree on-site, a large blue oak tree, would be preserved and incorporated into Lot #7.

Discretionary Actions

As discussed in detail above, the proposed project would require the following approvals from the City of Clayton:

- Rezone;
- Vesting Tentative Subdivision Map;
- Development Plan Permit;
- Development Plan Review; and
- Tree Removal Permit.

LIST OF MITIGATION MEASURES

Mitigation Measure 1. *The project applicant shall be subject to pay all required fees associated with development in Zone 2 of the ECCCHCP/NCCP prior to the start of construction at the current fee rate in place at that time.*

Mitigation Measure 2. *Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys shall establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by kit foxes in accordance with USFWS survey guidelines (U.S Fish and Wildlife Service, 1999).*

The preconstruction survey shall be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens shall be determined and mapped. Written results of the preconstruction survey shall be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

Avoidance and Minimization Measures. If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the project applicant shall comply with the following avoidance and minimization requirements:

- *If a San Joaquin kit fox den is discovered within the proposed development footprint, the den shall be monitored for three days by a USFWS-CDFW-approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.*
- *Unoccupied dens should be destroyed immediately to prevent subsequent use.*
- *If a natal or pupping den is found, USFWS and CDFW shall be notified immediately. The den shall not be destroyed until the pups and adults have vacated and further consultation with USFWS and the CDFW has been performed.*
- *If kit fox activity is observed at the den during the initial monitoring period, the den shall be monitored for an additional five consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied, the den may be excavated under the direction of the biologist. Alternatively, if the animal is still present after five or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgement of a biologist, it is temporarily vacant (i.e., during the animal's normal foraging activities).*
- *If San Joaquin kit fox dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances shall be demarcated. The configuration of exclusion zones shall be circular, with a radius measured outward from the den entrance(s). No covered activities shall occur within the exclusion zones. Exclusion zone radii for potential dens shall be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by the kit fox.*

Mitigation Measure 3. *Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The survey shall establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).*

On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership shall not be surveyed. Surveys shall take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls shall be identified and mapped. Surveys shall take place no more than 30 days prior to construction. During the breeding season (February 1 to August 31), surveys shall document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1 to January 31), surveys shall document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results shall be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization Measures. If burrowing owls are found during the breeding season (February 1 to August 31), the project proponent shall avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance shall include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 to January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance shall include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur shall be established around each occupied burrow (nest site). Buffer zones of 160 feet shall be established around each burrow being used during the nonbreeding season. The buffers shall be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation shall be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

Mitigation Measure 4. *Prior to implementation of covered activities, a qualified biologist shall conduct a preconstruction survey to establish whether nests of golden eagles are occupied. If nests are occupied, minimization requirements and construction monitoring shall be required.*

Covered activities shall be prohibited within 0.5-mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity shall coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction monitoring shall focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the Urban Limit Line, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring shall ensure that direct effects to golden eagles are minimized.

Mitigation Measure 5. *Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. The findings of the survey shall be submitted*

to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

Mitigation Measure 6. *If work is scheduled to take place between February 1 and August 31, a pre-construction nesting bird survey shall be conducted by a qualified biologist within 14 days of construction. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.*

Mitigation Measure 7. *The proposed project shall be designed in compliance with stream setback requirements set forth in Conservation Measures 1.7 and 2.12 of the ECCCHCP/NCCP, including the following avoidance and minimization measures:*

- *All wetlands to be avoided by covered activities shall be temporarily staked in the field by a qualified biologist, and a 25-foot buffer zone shall be implemented along the seasonal wetland swale and between the ephemeral streams and development activities.*
- *Herbicides shall not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In such a case, herbicides that have been approved by the EPA for use in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides shall be applied to the ruderal grassland within the buffer area during the dry season to control non-native invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.*
- *Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the ephemeral streams or the seasonal wetland swale shall be trained by a qualified biologist in the avoidance and minimization measures set forth by this IS/MND and the permit obligations of the project proponents working under the ECCCHCP.*

Mitigation Measure 8. *Vehicles and equipment shall be parked on pavement, existing roads, and previously disturbed areas. No construction or maintenance vehicles shall be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill. In addition, trash generated during project construction shall be promptly removed from the site.*

Mitigation Measure 9. *The proposed project shall be implemented in compliance with the hydrologic maintenance and erosion minimization measures set forth in Conservation Measures 1.10 and 2.12 of the ECCCHCP/NCCP. Standard construction best management practices (BMPs) shall be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs shall include the use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences, or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.*

Appropriate erosion-control measures (e.g. fiber rolls, filter fences, vegetative buffer strips) shall be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh shall be of material that shall not entrap reptiles or amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Fiber rolls used for erosion control shall be certified as free of noxious weed seed. Seed mixtures applied for erosion control shall not contain invasive non-native species, and shall be composed of native species or sterile non-native species.

Mitigation Measure 10. *The following tree protection measures shall be implemented pursuant to the recommendations listed in the Arborist Report, to the extent feasible:*

- *The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the existing trees to be retained, as identified in the Arborist Report;*
- *A five-foot tree protection zone shall be established from the northern and southern fence lines extending into the development area where no foot, vehicle, storage, or any other intrusion shall be allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within the tree protection zone;*
- *Landscaping around the protected oak (Tree #37) on-site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface;*
- *Fences along the northern and southern borders shall require absolutely no grading or digging within five radial feet of all protected tree trunks;*
- *New trees shall be selected, installed, and maintained as per requirements of the City of Clayton; and*
- *If a new fence line is established for the property, rather than demolishing and reinstalling the existing fence line, four border trees shall be preserved.*

Mitigation Measure 11. *Prior to the initiation of ground-disturbing activities, the potential for root damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Air spading shall be performed along property lines within the northern and southern portions of the project site;*
- *All exposed roots shall be pruned using sharp sawzall blades;*
- *Pruned roots shall be covered with soil.*

Mitigation Measure 12. *Prior to the initiation of ground-disturbing activities, the potential for crown damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Crowns shall be raised as specified to allow for vehicle and equipment clearance:*
    - *Crowns shall be raised 16 feet above the existing grade;*
    - *50 percent of live crown ratio shall be maintained;*
    - *Thinning cuts shall be made two inches in diameter or smaller;*

- *Downward growing branches from zero to 15 feet above grade shall be removed;*
- *Branches larger than two inches in diameter shall be shortened by heading the branches back to at least half of their diameters; and*
- *No more than 25 percent of a crown is to be removed in one season*

Mitigation Measure 13. *A tree replacement plan for the removal of 152 inches of cumulative trunk diameter of protected tree species shall be prepared in accordance with Municipal Code Section 15.070.040 A1.or A.2., or, subject to determination by the Community Development Director or Planning Commission, the applicant must pay an in-lieu fee to the City for the purchase and installation of trees of equivalent value.*

Mitigation Measure 14. *Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.*

Mitigation Measure 15. *Pursuant to State Health and Safety Code §7050.5(c) and State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the Most Likely Descendant (MLD). The MLD shall work with the contractor to develop a program for re-internment of the human remains and any associated artifacts. Additional work shall not take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.*

Mitigation Measure 16. *Prior to approval of the improvement plans for the project, all recommendations from the Geotechnical Report prepared for the project by Stevens, Ferrone, & Bailey Engineering Company, Inc (2020) shall be incorporated into the improvement plans to the satisfaction of the City Engineer. In addition, the applicant shall retain a California Registered Geotechnical Engineer to perform field observations during grading. Compliance with the recommendations of the Geotechnical Engineer shall be provided to the City Engineer.*

Mitigation Measure 17. *Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:*

- *Hydro-seeding;*

- *Placement of erosion control measures within drainage ways and ahead of drop inlets;*
- *The temporary lining (during construction activities) of drop inlets with "filter fabric";*
- *The placement of straw wattles along slope contours;*
- *Use of a designated equipment and vehicle "wash-out" location;*
- *Use of siltation fences;*
- *Use of on-site rock/gravel road at construction access points; and*
- *Use of sediment basins and dust palliatives.*

Mitigation Measure 18. *Prior to initiation of any ground disturbance activities, the applicant shall hire a licensed well contractor to obtain a well abandonment permit from Contra Costa Health Services and properly abandon the on-site well to the satisfaction of the Contra Costa Health Services Department. Proof of abandonment shall be provided to the City of Clayton Community Development Department and City Engineer.*

Mitigation Measure 19. *During grading and construction, the project contractor shall ensure that the following measures are implemented:*

- *Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;*
- *The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and*
- *All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.*

EVALUATION OF ENVIRONMENTAL IMPACTS

1. AESTHETICS.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Have a substantial adverse effect on a scenic vista?	□	□	□	X
b.	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?	□	□	□	X
c.	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	□	□	X	□
d.	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	□	□	X	□

a. Would the project have a substantial adverse effect on a scenic vista? ..... No Impact

Discussion (a.)

For purposes of this analysis, scenic vistas would be officially designated mountain ranges, ridgelines, or bodies of water as viewed from a highway, public space, or other area designated for the express purpose of viewing and sightseeing. The City of Clayton General Plan identifies the protection of scenic resources as a core concern for future development and planning. Impacts to the views of open spaces or vistas would diminish the rural character of the City, and should be avoided. However, the City's General Plan does not contain any policies that address scenic vistas, nor does the General Plan define or identify any specific scenic vistas. Thus, the proposed project would not have a substantial adverse effect on a scenic vista, and ***no impact*** would occur.

b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway? ..... No Impact

Discussion (b.)

According to the California Scenic Highway Mapping System, two highways in Contra Costa County are officially-designated State Scenic Highway corridors: [1] Interstate 680 (I-680), from the Alameda County line to the junction with State Route (SR) 24; and SR 24

[1] California Department of Transportation. *Scenic Highways*. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed July 2020.

from the east portal of the Caldecott tunnel to I-680 near Walnut Creek. Neither of the aforementioned corridors provide views of Clayton or the project site. Accordingly, the proposed project would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, or historic buildings within a State Scenic Highway. Thus, the project would result in ***no impact***.

c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? .....Less-Than-Significant Impact

Discussion (c.)

The project site would be divided between an undeveloped open space area, which contains an existing wetland and steep hillside area in the southwestern portion of the project site, and the flatter development site located nearer to Mitchell Canyon Road. Only approximately 50 percent of the site would be developed as part of the proposed project, while the remaining 50 percent of the project site would be preserved as open space in perpetuity and not affected by construction or future operations of the proposed project. The area to be retained as open space is the portion of the project site that currently provides the greatest visual quality offered on the project site. Therefore, implementation of the proposed project would only change the existing visual setting of the development site from undeveloped to a single-family residential subdivision. The following discussion provides an analysis of the changes in visual character and quality, as viewed from public areas in the project vicinity, that would be expected to occur as a result of the proposed project.

Distinguishing between public and private views is important, because private views are views seen from privately-owned land and are typically associated with individual viewers, including views from private residences. Public views are experienced by the collective public, and include views of significant landscape features and along scenic roads. According to CEQA (Pub. Resources Code, § 21000 et seq.) case law, only public views, not private views, are protected under CEQA. For example, in *Association for Protection etc. Values v. City of Ukiah* (1991) 2 Cal.App.4th 720, the court determined that "we must differentiate between adverse impacts upon particular persons and adverse impacts upon the environment of persons in general. As recognized by the court in *Topanga Beach Renters Assn. v. Department of General Services* (1976) 58 Cal.App.3d 188: '[A]ll government activity has some direct or indirect adverse effect on some persons. The issue is not whether [the project] will adversely affect particular persons but whether [the project] will adversely affect the environment of persons in general.'" Therefore, the focus in this section is on potential impacts to public views.

Public views in the project vicinity would consist primarily of views of the development site seen by motorists, bicyclists, and pedestrians traveling on Mitchell Canyon Road. Public views looking east to west from this vantage point do not include prominent background features that would be obscured by the proposed project. The proposed project would convert a portion of the undeveloped project site to a residential use, and, thus, would alter the existing visual character of the site. However, all proposed residences would be single-story and the project would be consistent with the type, location, and intensity of the residential development that has been anticipated in the City of Clayton General Plan. The proposed project would also be considered an infill project by filling in a currently vacant parcel within the surrounding residential community with 18 single-family residences and three ADUs. Furthermore, the project includes landscaping within the project frontage located along Mitchell Canyon Road, such as cobble-stone pathways and native shrubs and grasses that would be bordered by wood-grain, two-rail open fencing. Landscaping improvements would also be included within each residential lot in an effort to ensure the development would be consistent with the visual aesthetic of landscaped areas along other adjacent portions of Michell Canyon Road. For example, one 15-gallon accent tree would be included in the front yards of the proposed residences, in addition to flowering shrubs and drought tolerant groundcover.

All development occurring on the project site would be subject to Site Plan Review consistent with Chapter 17.44 of the Clayton Municipal Code. The Site Plan Review process would include a review of the exterior appearance of all proposed facilities and structures to ensure compliance with the City's established General Plan policies. Importantly, the proposed residences would incorporate design features intended to reflect the rural character of surrounding development, including, but not limited to, single-story development not more than 27 feet in height, wood-grain two-rail open fencing, and the preservation of on-site open space area and the existing drainage channel.

Given the fact that: 1) the General Plan anticipated medium density residential development for the project site, generally consistent with what is being proposed, 2) the project includes the preservation of the existing drainage channel and hilly portions of the project site as open space, and 3) the project will adhere to the Site Plan Review requirements and other applicable policies set forth in the Clayton Municipal Code, the proposed project would not substantially degrade the existing visual character or quality of the site and its surroundings, and a ***less-than-significant*** impact would occur.

d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? .....Less-Than-Significant Impact

Discussion (d.)

The project site is currently undeveloped. As such, buildout of the development area with 18 single-family residences, three ADUs, an internal street, and various other associated improvements would introduce new sources of light and/or glare to portions of the site where none currently exist. Potential sources of nighttime light would include, but not be

limited to, lighting spilling from the interiors of the proposed residences, exterior light fixtures, street lighting on the new on-site roadway, and headlights from vehicles. Sources of glare could include windows on the proposed residential structures, as well as any other reflective surfaces.

The nearest sensitive receptors, considered to be the existing residences in proximity to the site, are located less than 50 feet from the project site to the north, south, and east across Mitchell Canyon Road. The project would be required to comply with Section 8.09 of the City's Municipal Code, which prohibits the installation or maintenance of outdoor light fixtures that would cause an undue annoyance to persons on neighboring parcels in residential zoning districts. Compliance with Section 8.09 of the City's Municipal Code would be ensured during the Site Plan Review process mentioned previously. In addition, 15-foot rear setbacks and the proposed intervening landscaping would further reduce impacts related to new light sources and glare.

Based on the above, the proposed project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area, and a ***less-than-significant*** impact would occur.

2. AGRICULTURE RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:					
a.	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping Program of the California Resources Agency, to non-agricultural use?	□	□	□	X
b.	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	□	□	□	X
c.	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	□	□	□	X
d.	Result in the loss of forest land or conversion of forest land to non-forest use?	□	□	□	X
e.	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	□	□	□	X

a. Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use? ..... No Impact

b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract? ..... No Impact

Discussion (a. and b.)

According to the California Department of Conservation Important Farmland Finder, the proposed project site is classified as Grazing Land.[2] The site does not contain Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, and, thus, the project would not convert such lands to non-agricultural use. Conflicts with existing zoning for agricultural use or a Williamson Act contract would not occur. As such, the proposed project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural uses and would not conflict with existing zoning for agricultural use, or a Williamson Act contract. Thus, ***no impact*** would occur as a result of the proposed project.

[2] California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed July 2020.

c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))? ..... No Impact

d. Result in the loss of forest land or conversion of forest land to non-forest use? ..... No Impact

Discussion (c. and d.)

The project site is not considered forest land (as defined in Public Resources Code section 12220[g]) or timberland (as defined by Public Resources Code section 4526), and the site is not zoned Timberland Production (as defined by Government Code section 51104[g]). Therefore, the proposed project would have ***no impact*** with regard to conversion of forest land or any potential conflict with forest land, timberland, or Timberland Production zoning.

e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use? ..... No Impact

Discussion (e.)

The project site is located within the City of Clayton, and is located near existing residential development. Agricultural activities do not currently occur on the site, nor do they occur in any areas adjacent to or near the project site. Therefore, constructing 18 new single-family residences, three ADUs, and associated improvements within the development area of the project site would not result in conflicts between existing agricultural activities and the proposed residential land uses, which could impair existing agricultural operations or lead to induced conversion of agricultural lands due to incompatible uses. Therefore, the proposed project would not involve other changes in the existing environment, due to their location or nature, that could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use and, thus, ***no impact*** would occur.

3. AIR QUALITY.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:					
a.	Conflict with or obstruct implementation of the applicable air quality plan?	□	□	X	□
b.	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	□	□	X	□
c.	Expose sensitive receptors to substantial pollutant concentrations?	□	□	X	□
d.	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	□	□	X	□

a. Would the project conflict with or obstruct implementation of the applicable air quality plan? .....Less-Than-Significant Impact

b. Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? .....Less-Than-Significant Impact

Discussion (a. and b.)

The City of Clayton is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). The SFBAAB area is currently designated as a nonattainment area for State and federal ozone, State and federal fine particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State respirable particulate matter 10 microns in diameter (PM_{10}) ambient air quality standards (AAQS). The SFBAAB is designated attainment or unclassified for all other AAQS. It should be noted that on January 9, 2013, the U.S. Environmental Protection Agency (USEPA) issued a final rule to determine that the Bay Area has attained the 24-hour $PM_{2.5}$ federal AAQS. Nonetheless, the Bay Area must continue to be designated as nonattainment for the federal $PM_{2.5}$ AAQS until such time as the BAAQMD submits a redesignation request and a maintenance plan to the USEPA, and the USEPA approves the proposed redesignation. The USEPA has not yet approved a request for redesignation of the SFBAAB; therefore, the SFBAAB remains in nonattainment for 24-hour $PM_{2.5}$.

In compliance with regulations, due to the nonattainment designations of the area, the BAAQMD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The current air quality plans are prepared in cooperation with the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG).

The most recent federal ozone plan is the 2001 Ozone Attainment Plan, which was adopted on October 24, 2001 and approved by the California Air Resources Board (CARB) on November 1, 2001. The plan was submitted to the USEPA on November 30, 2001 for review and approval. The most recent State ozone plan is the 2017 Clean Air Plan, adopted on April 19, 2017. The 2017 Clean Air Plan was developed as a multi-pollutant plan that provides an integrated control strategy to reduce ozone, PM, toxic air contaminants (TACs), and greenhouse gases (GHGs). Although a plan for achieving the State PM_{10} standard is not required, the BAAQMD has prioritized measures to reduce PM in developing the control strategy for the 2017 Clean Air Plan. The control strategy serves as the backbone of the BAAQMD's current PM control program.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures to be implemented in the region to attain the State and federal AAQS within the SFBAAB. Adopted BAAQMD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated nonattainment, consistent with applicable air quality plans. For development projects, BAAQMD establishes significance thresholds for emissions of the ozone precursors reactive organic gases (ROG) and oxides of nitrogen (NO_X), as well as for PM_{10} and $PM_{2.5}$, expressed in pounds per day (lbs/day) and tons per year (tons/yr). The thresholds are listed in Table 1. Thus, by exceeding the BAAQMD's mass emission thresholds for construction and/or operational emissions of ROG, NO_X, PM_{10}, or $PM_{2.5}$, a project would be considered to conflict with or obstruct implementation of the BAAQMD's air quality planning efforts.

Table 1
BAAQMD Thresholds of Significance

	Construction	Operational	
Pollutant	**Average Daily Emissions (lbs/day)**	**Average Daily Emissions (lbs/day)**	**Maximum Annual Emissions (tons/year)**
ROG	54	54	10
NO_x	54	54	10
PM_{10} (exhaust)	82	82	15
$PM_{2.5}$ (exhaust)	54	54	10

Source: BAAQMD, CEQA Guidelines, May 2017.

The proposed project's construction and operational emissions were quantified using the California Emissions Estimator Model (CalEEMod) software version 2016.3.2 - a Statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, vehicle mix, trip length, average speed, etc. Where project-specific information is available, such information is applied in the model. The proposed project's modeling assumed the following:

- The modeled land uses consist of:
  - 18 single-family residential units on 3.19 acres of land; and
  - 0.74-acre of paved roadway.
- Construction would begin in May of 2021 and occur over approximately one year;

- Demolition of the on-site shed would involve removal of approximately 350 sf of building material;
- A total of 3.93 acres of land would be disturbed during grading, and import or export of material would not be required;
- The trip generation rate was set to 9.52 trips/unit, based on the Institute of Transportation Engineers (ITE) 9th edition trip generation rate for Single Family Homes (210);
- Fireplaces would not be installed;
- The project would provide on-site pedestrian connectivity;
- The project site is located within 0.5-mile of an existing transit stop;
- Pursuant to BAAQMD requirements, low-VOC outdoor paints would be used for architectural coatings; and
- The project would comply with all applicable provisions of the 2019 California Building Code (CBC), including installation of efficient indoor water fixtures, and generation of 100 percent of electricity on-site from renewable sources.

The proposed project's estimated emissions associated with construction and operations and the project's contribution to cumulative air quality conditions are provided below. All CalEEMod results are included as Appendix A to this IS/MND. It should be noted that the three ADU's proposed for Lots 14, 16, and 18 would be expected to have reduced trip rates compared to the proposed single-family units. Overall, the three ADUs would not result in emissions substantial enough to affect the conclusions presented below.

Construction Emissions

According to the CalEEMod results, the proposed project would result in maximum unmitigated construction criteria air pollutant emissions as shown in Table 2. As shown in the table, the proposed project's construction emissions would be below the applicable thresholds of significance for ROG, NO_X, PM_{10}, and $PM_{2.5}$.

Table 2
Maximum Construction Emissions (lbs/day)

Pollutant	Proposed Project Emissions	Threshold of Significance	Exceeds Threshold?
ROG	4.03	54	**NO**
NO_X	40.54	54	**NO**
PM_{10} (exhaust)	2.05	82	**NO**
PM_{10} (fugitive)	18.21	None	**N/A**
$PM_{2.5}$ (exhaust)	1.88	54	**NO**
$PM_{2.5}$ (fugitive)	9.97	None	**N/A**

Source: CalEEMod, August 2020 (see Appendix A)

Although thresholds of significance for mass emissions of fugitive dust PM_{10} and $PM_{2.5}$ have not been identified by BAAQMD, the proposed project's estimated fugitive dust emissions have been included for informational purposes. All projects within the jurisdiction of the BAAQMD are required to implement all of the BAAQMD's Basic Construction Mitigation Measures, which include the following:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

The proposed project's implementation of the BAAQMD's Basic Construction Mitigation Measures would further minimize construction-related emissions.

Because the proposed project would be below the applicable thresholds of significance for construction emissions, project construction would not result in a significant air quality impact.

Operational Emissions

According to the CalEEMod results, the proposed project would result in maximum unmitigated operational criteria air pollutant emissions as shown in Table 3. As shown in the table, the proposed project's operational emissions would be well below the applicable thresholds of significance.

Table 3
Unmitigated Maximum Operational Emissions

Pollutant	Proposed Project Emissions		Threshold of Significance		Exceeds Threshold?
	lbs/day	tons/yr	lbs/day	tons/yr	
ROG	1.08	0.19	54	10	**NO**
NO_X	1.08	0.19	54	10	**NO**
PM_{10} (exhaust)	0.03	0.00	82	15	**NO**
PM_{10} (fugitive)	0.79	0.14	None	None	**N/A**
$PM_{2.5}$ (exhaust)	0.02	0.00	54	10	**NO**
$PM_{2.5}$ (fugitive)	0.21	0.04	None	None	**N/A**

Source: CalEEMod, August 2020 (see Appendix A)

Because the proposed project's operational emissions would be below the applicable thresholds of significance, the proposed project would be considered to result in a less-than-significant air quality impact during operations.

Cumulative Emissions

Past, present and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By nature, air pollution is largely a cumulative impact. A single project is not sufficient in size to, by itself, result in nonattainment of AAQS. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant. In developing thresholds of significance for air pollutants, BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. The thresholds of significance presented in Table 1 represent the levels at which a project's individual emissions of criteria air pollutants or precursors would result in a cumulatively considerable contribution to the SFBAAB's existing air quality conditions. If a project exceeds the significance thresholds presented in Table 1, the proposed project's emissions would be cumulatively considerable, resulting in significant adverse cumulative air quality impacts to the region's existing air quality conditions. Because the proposed project would result in emissions below the applicable thresholds of significance, the project would not be expected to result in a cumulatively considerable contribution to the region's existing air quality conditions.

Conclusion

As stated previously, the applicable regional air quality plans include the 2001 Ozone Attainment Plan and the 2017 Clean Air Plan. According to BAAQMD, if a project would not result in significant air quality impacts, after the application of all feasible mitigation, the project may be considered consistent with the air quality plans. Because the proposed project would result in emissions below the applicable thresholds of significance, the project would not be considered to conflict with or obstruct implementation of regional air quality plans.

Because the proposed project would not conflict with or obstruct implementation of the applicable air quality plans, violate any air quality standards or contribute substantially to an existing or projected air quality violation, or result in a cumulatively considerable net increase in any criteria air pollutant, impacts would be considered ***less than significant***.

c. Would the project expose sensitive receptors to substantial pollutant concentrations? .....Less-Than-Significant Impact

Discussion (c.)

Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically

considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics. The nearest existing sensitive receptors to the site would be the single-family residences to the north and south of the project site, located approximately 50 feet away in each direction.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions and TAC emissions. Discussions of CO emissions, TAC emissions, criteria pollutants and potential health impacts resulting from the emission of criteria pollutants are included below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. Emissions of CO are of potential concern, as the pollutant is a toxic gas that results from the incomplete combustion of carbon-containing fuels such as gasoline or wood. CO emissions are particularly related to traffic levels.

In order to provide a conservative indication of whether a project would result in localized CO emissions that would exceed the applicable threshold of significance, the BAAQMD has established screening criteria for localized CO emissions. According to BAAQMD, a proposed project would result in a less-than-significant impact related to localized CO emission concentrations if all of the following conditions are true for the project:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans;
- The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour; and
- The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, underpass, etc.).

According to the Contra Costa Transportation Authority (CCTA) Congestion Management Plan (CMP), any land development application generating less than 100 peak hour trips is not required to prepare a study of the development's traffic impacts on the CMP network as such projects are expected to have minimal impacts on the CMP network.[3] As discussed in further detail in Section 17, Transportation, of this IS/MND, the proposed project would result in an estimated 193 new daily vehicle trips, with 16 new AM and 20 new PM peak hour vehicle trips. Because the project is anticipated to only generate 36 total peak hour trips per day, the project would be well below the CCTA CMP threshold of 100 new peak hour trips, and would thus be considered consistent with the CCTA CMP.

[3] Contra Costa Transportation Authority. *2019 Update of the Contra Costa Congestion Management Program* [page 72]. Adopted December 18, 2019.

As discussed above, the project is not expected to generate a significant increase in peak hour trips. According to recent traffic counts on Mitchell Canyon Road, conducted by the City Engineering Department, Mitchell Canyon Road experiences an average daily traffic level of approximately 2,432 vehicle trips. The proposed residences are anticipated to generate approximately 193 trips per day, which would contribute a nominal increase in local traffic levels, and would not increase traffic volumes at any intersection to more than 44,000 vehicles per hour. As such, the proposed project's increase of 36 total new peak hour trips would not increase traffic volumes at nearby intersections to more than the hourly traffic volumes set forth in the BAAQMD's localized CO screening criteria. Furthermore, intersections where vertical and/or horizontal mixing is limited are not located in the project vicinity.

Based on the above, per the BAAQMD's screening criteria for localized CO emissions, the proposed project would not be expected to result in substantial levels of localized CO at surrounding intersections or generate localized concentrations of CO that would exceed standards or cause health hazards.

TAC Emissions

Another category of environmental concern is TACs. The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk. The nearest sensitive receptors to the proposed project are single-family residences located approximately 50 feet to the north and the single-family residences located approximately 50 feet to the south of the project site.

The proposed residential project does not include any operations that would be considered a substantial source of TACs. Accordingly, operations of the proposed project would not expose sensitive receptors to excess concentrations of TACs.

Short-term, construction-related activities could result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. Specifically, as noted above, construction would occur over an approximately one-year period, with the most intense period of construction occurring during the site-preparation phase, which would take place over approximately five days. The exposure period typically analyzed in health risk assessments is 30 years or greater, which is substantially longer than the approximately one-year total construction period associated with the proposed project. In addition, all construction equipment and operation thereof would be regulated by the In-Use Off-Road Diesel Vehicle Regulation, which is intended to help reduce emissions associated with off-road diesel vehicles and equipment, including DPM. Project construction would also be

required to comply with all applicable BAAQMD rules and regulations, particularly associated with permitting of air pollutant sources. In addition, per the City of Clayton Municipal Code Section 15.01.101, construction activities would be limited to daytime hours only, which would limit the duration during which emissions from on-site equipment would occur.

During construction, only portions of the project site would be disturbed at a time. Operation of construction equipment would occur on portions of the site intermittently throughout the course of a day over the overall construction period. Because construction equipment on-site would operate only intermittently and would be used at varying locations within the site, associated emissions of DPM would not occur at the same location (or be evenly spread throughout the entire project site) for long periods of time. According to BAAQMD, research conducted by CARB indicates that DPM is highly dispersive in the atmosphere. Thus, any particular nearby sensitive receptor would be exposed to varying concentrations of DPM emissions throughout the construction period, and a single receptor would not consistently be subject to substantial DPM emissions. Due to the temporary nature of construction and the relatively short duration of potential exposure to associated emissions, sensitive receptors in the area would not be exposed to pollutants for a permanent or substantially extended period of time.

Considering the short-term nature of construction activities, the regulated and intermittent nature of the operation of construction equipment, and the highly dispersive nature of DPM, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time would be low. For the aforementioned reasons, project construction would not be expected to expose sensitive receptors to substantial pollutant concentrations.

Criteria Pollutants

The BAAQMD thresholds of significance were established with consideration given to the health-based air quality standards established by the NAAQS and CAAQS, and are designed to aid the district in achieving attainment of the NAAQS and CAAQS.[4] Although the BAAQMD's thresholds of significance are intended to aid achievement of the NAAQS and CAAQS for which the SFBAAB is in nonattainment, the thresholds of significance do not represent a level above which individual project-level emissions would directly result in public health impacts. Nevertheless, a project's compliance with BAAQMD's thresholds of significance provides an indication that criteria pollutants released as a result of project implementation would not inhibit attainment of the health-based regional NAAQS and CAAQS. Because project-related emissions would not exceed the BAAQMD's thresholds, and, thus, would not inhibit attainment of regional NAAQS and CAAQS, the criteria pollutants emitted during project implementation would not be anticipated to result in measurable health impacts to sensitive receptors. Accordingly, the proposed project would not expose sensitive receptors to excess concentrations of criteria pollutants.

[4] Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines.* May 2017.

Conclusion

Based on the above discussion, the proposed project would not expose any sensitive receptors to substantial concentrations of localized CO or TACs from construction or operation, nor would the proposed project result in measurable health impacts to sensitive receptors due to the release of criteria pollutants. Therefore, the proposed project would result in a ***less-than-significant*** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? .....Less-Than-Significant Impact

Discussion (d.)

Emissions such as those leading to odors have the potential to adversely affect sensitive receptors within the project area. Pollutants of principal concern include emissions leading to odors, emission of dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in sections "a" through "c" above. Therefore, the following discussion focuses on emissions of odors and dust.

Pursuant to the BAAQMD CEQA Guidelines, odors are generally regarded as an annoyance rather than a health hazard.[5] Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The presence of an odor impact is dependent on several variables including: the nature of the odor source; the frequency of odor generation; the intensity of odor; the distance of odor source to sensitive receptors; wind direction; and sensitivity of the receptor.

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantification of significant odor impacts is relatively difficult. Typical odor-generating land uses include, but are not limited to, wastewater treatment plants, landfills, and composting facilities. The proposed project would not introduce any such land uses.

Construction activities often include diesel-fueled equipment and heavy-duty diesel trucks, which can create odors associated with diesel fumes, which could be found to be objectionable. However, as discussed above, construction activities would be temporary, and operation of construction equipment would be regulated and intermittent. Project construction would be required to comply with all applicable BAAQMD rules and regulations, particularly associated with permitting of air pollutant sources. The aforementioned regulations would help to minimize air pollutant emissions as well as any associated odors. Accordingly, substantial objectionable odors would not occur during construction activities or affect a substantial number of people.

[5] Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines* [pg. 7-1]. May 2017.

In addition, the BAAQMD rules and regulations would act to reduce construction-related dust, which would ensure that construction of the proposed project does not result in substantial emissions of dust. Following project construction, the project site would not include any exposed topsoil. Thus, project operations would not include any substantial sources of dust.

For the aforementioned reasons, construction and operation of the proposed project would not result in emissions (such as those leading to odors) adversely affecting a substantial number of people, and a ***less-than-significant*** impact would result.

4. BIOLOGICAL RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	□	X	□	□
b.	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	□	X		□
c.	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	□	X		□
d.	Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	□	□	X	□
e.	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	□	X	□	□
f.	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan?	□	□	X	□

a. Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? ..... Less-Than-Significant With Mitigation Incorporated

Discussion (a.)

This section is based upon a Planning Survey Report (PSR) prepared for the project site by Moore Biological Consultants (MBC) in order to comply with and receive Permit coverage under the *Natural Community Conservation Plan and the East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan* (ECCCHCP/NCCP) (see Appendix B)[6].

The following discussion describes the sensitive biological resources that have the potential to be present within the project site based on the PSR. Sensitive biological resources

[6] Moore Biological Consultants. *Application Form and Planning Survey Report, Diablo Meadows.* July 2020.

include habitats and/or individual plant and animal species that have special recognition by federal, State, or local conservation agencies. For purposes of this analysis, special-status animal species are defined as animals protected under the California and Federal Endangered Species Acts (CESA and FESA, respectively), or other regulations, and species that are considered rare by the scientific community. Special-status plant species are defined as plants that are protected under the CESA and FESA or listed as rare by California Department of Fish and Wildlife (CDFW) and the California Native Plant Society (CNPS). Special-status species include:

- Animals and plants listed or proposed for listing as threatened or endangered under the CESA (Fish and Game Code §2050 et seq.; 14 CCR §670.1et seq.) or the FESA (50 CFR 17.11);
- Animals and plants that are candidates for possible future listing as threatened or endangered under the FESA (50 CFR 17; FR Vol. 64, No. 205, pages 57533-57547, October 25, 1999); and under the CESA (California Fish and Game Code §2068);
- Animals that meet the definition of endangered, rare, or threatened under the California Environmental Quality Act (CEQA) (14 CCR §15380) that may include species not found on either State or Federal Endangered Species lists;
- Animals that are designated as "species of special concern" by CDFW (2016);
- Animal species that are designated as “fully protected” under California (Fish and Game Code 3511, 4700, 5050, and 5515);
- Animal species that are designated as “covered” species under the ECCHCP/NCCP;
- Plants that are listed by CNPS Rare Plant Program as rank 1A – plants presumed extirpated in California and either rare or extinct elsewhere, 1B – plants rare, threatened or endangered in California or elsewhere, 2A – plants presumed extirpated in California but common elsewhere, 2B – plants rare, threatened or endangered in California by common elsewhere, 3 – plants about which more is needed and 4 – plants of limited distribution; and
- Plants that are listed by the ECCHCP/NCCP as “covered” or “no take” species.

In addition to regulations for special-status species, most birds in the United States, including non-status species, are protected by the Migratory Bird Treaty Act (MBTA) of 1918. Under the MBTA, destroying active nests, eggs, and young is illegal.

According to the PSR, the project site consists of approximately 8.07 acres of annual grassland cover, 0.19-acres of seasonal wetlands, 0.02-acre of streams, and 0.38-acres of urban land (see Figure 9). The western portion of the project site, generally referred to as the open space area in this IS/MND, consists of rolling hills vegetated with annual grassland. Dominant annual grassland species within the western open space portion of the project site include oats, ripgut brome, foxtail barley, California poppy, common bedstraw, cut leaved geranium, and vetch. A marginal seasonal wetland feature is also located in the western portion of the site, in a low valley at the base of two hillslopes (see Figure 9). Vegetation associated with the seasonal wetland includes perennial ryegrass, creeping wild rye, curly dock, a few other marginal hydrophytes, and various upland species, including black mustard and common bedstraw.

Figure 9
Project Site Landcover Map



As shown in Figure 9, the southern end of the seasonal wetland abruptly transitions to a defined channel with notable bed and bank that is best described as an ephemeral stream. The channel is approximately three feet wide without any adjacent wetlands. A very weak ephemeral stream is also located within the open space area along the western edge of the project site, with a barely discernible Ordinary High-Water Mark (OHWM). The channel is approximately one to two feet wide without any adjacent wetlands.

The eastern "panhandle" of the site, referred to as the development area, is considered a highly disturbed flat terrace vegetated with annual grassland. Dominant grassland species in the development area include oats, ripgut brome, black mustard, yellow star-thistle, radish, rose clover, and filaree. Upon site reconnaissance, the annual grassland was determined to be highly disturbed by periodic mowing and/or disking for fire suppression and weed abatement. In addition, 103 trees, predominantly of the Valley Oak species, were observed within the project site.

It should be noted that an approximately 0.38-acre area in the northwestern portion of the project site is depicted as urbanized and previously developed. A historical aerial photograph from 1939 shows the project site as an orchard, with a structure present within the area mapped as urbanized. While evidence of a structure does not exist on-site, there is a notably straight row of walnuts within the area that MBC determined was likely an old fence line, and a depressional area in the nearby seasonal wetland appears to be remnants of a small constructed stock pond.

The project site is located within the boundaries of the ECCCHCP/NCCP, which is intended to provide an effective framework to protect natural resources in the County.[7] The project site is located within Zone 2 of the Fee Payment Zones designated in the ECCCHCP/NCCP. Per the Fee Payment Zones, the proposed project would be subject to payment of all applicable fees prior to construction of the project, as further discussed under question 'f'.

Visual reconnaissance surveys of the project area were conducted by MBC in April 2020. During the field surveys, the biologist walked the entire project site in meandering transects to evaluate biological resource conditions at the site. In addition, a botanist performed three field surveys to assess potentially suitable habitat for special-status plants. The field surveys were floristic in nature with the goal of identifying species observed to the taxonomic level necessary to determine whether a species was a special-status species.

As part of the PSR, a total of 11 covered or no-take special-status plant species were identified through the literature review and database queries as having suitable land cover present within the project site. Upon site reconnaissance, covered or no-take plants were not observed or are not expected to occur on the project site. MBC determined that the annual grassland within the site is moderately to highly disturbed and does not provide potentially suitable habitat for any of the covered plants that occur in the more natural annual grasslands in the greater project vicinity. The seasonal wetland is also disturbed and provides very poor-quality habitat for covered plants that occur in similar environments.

[7] East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan*. http://www.co.contra-costa.ca.us/depart/cd/water/HCP/. As updated October 2007

While the project site contains an ephemeral stream and grasslands, which may provide migration and aestivation habitat for California red-legged frog (CRLF), MBC determined that the stream would be considered too small and/or weak to provide suitable habitat for CRLF; similarly, the annual grasslands do not provide suitable aestivating habitat for CRLF due to periodic disking. MBC also determined that the seasonal wetland, which has been moderately disturbed by periodic mowing and past cultivation for orchard crops, does not provide suitable habitat for California tiger salamander (CTS) or vernal pool branchiopods (VPB). The project site is mapped in Appendix D of the ECCCHCP/NCCP as "potential movement habitat" for Alameda whipsnake; however, the site does not contain the mosaic of scrub, chaparral, grassland, and woodland habitat required by the species. In addition, while the stream along the western edge of the site is mapped in the ECCCHCP/NCCP as "potential movement habitat" for western pond turtle and "suitable low use habitat" for foothill yellow-legged frog, according to MBC, the hydrological regime of the on-site stream makes the stream unlikely to be used by either species.

However, MBC concluded that the project site contains suitable habitat for burrowing, foraging, and/or nesting activities for the San Joaquin kit fox, western burrowing owl, and golden eagle, as well as white-tailed kite, which is considered a fully protected species per California Fish and Game Code Section 3511. In addition, development of the site could result in significant adverse impacts to birds protected under the MBTA. Such species are discussed in further detail below.

Special-Status Wildlife

The following discussions summarize the potential for the proposed project to result in adverse effects to San Joaquin kit fox, western burrowing owl, golden eagle, white-tailed kite, and birds protected by the MBTA.

San Joaquin Kit Fox

San Joaquin kit fox habitat is largely restricted to annual grassland. Within Contra Costa County, kit foxes primarily occur in the Los Vaqueros Watershed and Black Diamond Mines Regional Preserve, and are assumed to regularly move through and forage within the lands in between. The project site consists of annual grassland and ruderal grassland that is within the historical range of San Joaquin kit fox. However, the CNDDB contains no occurrences of San Joaquin kit fox within 0.5-mile of the site.

The site is within ECCCHCP/NCCP-modeled range for San Joaquin kit fox and is identified as "suitable core habitat" in Appendix D of the ECCCHCP/NCCP. Therefore, the on-site grasslands were inspected for burrows or dens with evidence of kit fox occupancy (i.e. scat, tracks) or burrows or dens that meet the dimensional criteria for kit fox. Comprehensive inspection of potential den habitat was accomplished by walking meandering transects throughout the property, but did not uncover any potential San Joaquin kit fox dens. Nevertheless, because the project site is within modeled habitat for San Joaquin kit fox, preconstruction surveys would be required to ensure that the proposed development would not result in impacts to the species.

Western Burrowing Owl

The western burrowing owl is designated by CDFW as a Species of Special Concern. Burrowing owls are found in open arid and semiarid habitats with short or sparse vegetation, including grasslands, deserts, agricultural fields, ruderal areas and open, landscaped areas. The species is dependent on mammals such as the California ground squirrel that dig underground burrows, which the owls occupy. Some burrowing owls have adapted to urban landscapes, and in some instances, open lots, roadsides, and landscaped areas can provide suitable habitat. Breeding typically occurs from March to August but can begin as early as February and can last into December.

The site consists of annual grassland and ruderal grassland that is within the range of western burrowing owl. CDFW's CNDDB does not contain occurrences of western burrowing owl within 0.5-mile of the site. The site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Western burrowing owls or burrows with evidence of the species were not observed upon site reconnaissance. Nevertheless, because the project site is within modeled habitat for western burrowing owl, preconstruction surveys would be required to ensure that the proposed development would not result in impacts to the species.

Golden Eagle

The site consists of annual grassland and ruderal grassland that is within the range of golden eagle habitat. CDFW's CNDDB does not contain occurrences of golden eagle within 0.5-mile of the site. MBC determined that only a few of the on-site trees are large enough to support golden eagle. Potential nest trees near and visible from the site also contain potentially suitable habitat for nesting. Raptor stick nests were not observed within the on-site trees or off-site trees visible from the site. Golden eagles were not observed on the project site, as the species primarily nests more often on cliffs in remote natural areas than in trees near urban areas. Nevertheless, because the project site is within ECCCHCP/NCCP-modeled habitat for golden eagle, preconstruction surveys would be required to ensure that the proposed development would not result in impacts to the species.

White-tailed kite

Potential nesting habitat for the white-tailed kite, a species identified by California Fish and Game Code 3511 as a fully protected species, occurs within various existing trees on the project site. Given that the project site includes suitable nesting habitat for the white-tailed kite, development of the site and removal of potential nesting trees could result in a significant adverse impact to white-tailed kite.

Birds Protected by the MBTA

Several trees present on the proposed project site could serve as nesting locations for common and sensitive passerine and raptor species protected under the MBTA. Site construction activities, including tree removal during the active nesting season (February 1 to August 31) would have the potential to cause the failure or abandonment of active nests of migratory birds. Impacts to nesting birds, their eggs, and/or young caused by implementation of the project would be regarded as a potentially significant impact.

Special-Status Plants

The PSR indicates that surveys must be completed for special-status plants based on whether suitable land cover types are found on-site. Based on the suitable land cover types identified in the PSR, a total of 11 special-status plant species could occur on-site, and, thus, require surveys. The species include adobe navarretia (*Navarretia nigelliformis*, Covered species), alkali milkvetch (*Astragalus tener*, ECCCHCP/NCCP No-take species), big tarplant (*Blepharizonia plumose*, ECCCHCP/NCCP Covered species), Brewer's dwarf flax (*Hesperolinon breweri*, ECCCHCP/NCCP Covered species), Contra Costa goldfields (*Lasthenia conugens*, ECCCHCP/NCCP No-take species), diamond-petaled poppy (*Eschscholzia rhombipetala*, ECCCHCP/NCCP No-take species), large-flowered fiddleneck (*Amsinckia grandiflora*, ECCCHCP/NCCP No-take species), Mount Diablo buckwheat (*Eriogonum truncatum*, ECCCHCP/NCCP No-take species), Mount Diablo fairy-lantern (*Calochortus Pulchellus*, ECCCHCP/NCCP Covered species), round-leaved filaree (*California macrophylla*, ECCCHCP/NCCP Covered species), and showy madia (*Madia radiata*, ECCCHCP/NCCP Covered species).

Three floristic surveys were determined appropriate to encompass the blooming periods of target species and were conducted on April 9th, April 29th, and July 14th of 2020. Special-status plants were not observed during the surveys. Therefore, impacts related to the potential disturbance of special-status plant species would be considered less-than-significant.

Conclusion

Based on the above, in the absence of appropriate mitigation, construction activities associated with the proposed project could result in adverse effects to San Joaquin kit fox, western burrowing owl, golden eagle, white-tailed kite, and birds protected by the MBTA. Thus, a ***potentially significant*** impact could occur.

Mitigation Measure(s)
Implementation of the following mitigation measures would reduce the above potential impacts to a *less-than-significant* level.

Mitigation Measure 1. *The project applicant shall be subject to pay all required fees associated with development in Zone 2 of the ECCCHCP/NCCP prior to the start of construction at the current fee rate in place at that time.*

San Joaquin Kit Fox

Mitigation Measure 2. *Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys shall establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by*

kit foxes in accordance with USFWS survey guidelines (U.S Fish and Wildlife Service, 1999).

The preconstruction survey shall be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens shall be determined and mapped. Written results of the preconstruction survey shall be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

<u>Avoidance and Minimization Measures.</u> If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the project applicant shall comply with the following avoidance and minimization requirements:

- *If a San Joaquin kit fox den is discovered within the proposed development footprint, the den shall be monitored for three days by a USFWS-CDFW-approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.*
- *Unoccupied dens should be destroyed immediately to prevent subsequent use.*
- *If a natal or pupping den is found, USFWS and CDFW shall be notified immediately. The den shall not be destroyed until the pups and adults have vacated and further consultation with USFWS and the CDFW has been performed.*
- *If kit fox activity is observed at the den during the initial monitoring period, the den shall be monitored for an additional five consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied, the den may be excavated under the direction of the biologist. Alternatively, if the animal is still present after five or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgement of a biologist,*

it is temporarily vacant (i.e., during the animal's normal foraging activities).

- *If San Joaquin kit fox dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances shall be demarcated. The configuration of exclusion zones shall be circular, with a radius measured outward from the den entrance(s). No covered activities shall occur within the exclusion zones. Exclusion zone radii for potential dens shall be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by the kit fox.*

Western Burrowing Owl

Mitigation Measure 3. *<u>Preconstruction Survey.</u> Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The survey shall establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).*

On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership shall not be surveyed. Surveys shall take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls shall be identified and mapped. Surveys shall take place no more than 30 days prior to construction. During the breeding season (February 1 to August 31), surveys shall document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1 to January 31), surveys shall document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results shall be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

<u>Avoidance and Minimization Measures.</u> If burrowing owls are found during the breeding season (February 1 to August 31), the project proponent shall avoid all nest sites that

could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance shall include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 to January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance shall include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur shall be established around each occupied burrow (nest site). Buffer zones of 160 feet shall be established around each burrow being used during the nonbreeding season. The buffers shall be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation shall be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

Golden Eagle

Mitigation Measure 4. *Prior to implementation of covered activities, a qualified biologist shall conduct a preconstruction survey to establish whether nests of golden eagles are occupied. If nests are occupied, minimization requirements and construction monitoring shall be required.*

Covered activities shall be prohibited within 0.5-mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation,

limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity shall coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction monitoring shall focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the Urban Limit Line, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring shall ensure that direct effects to golden eagles are minimized.

White-tailed Kite

Mitigation Measure 5. *Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.*

Birds Protected by the MBTA

Mitigation Measure 6. *If work is scheduled to take place between February 1 and August 31, a pre-construction nesting bird survey shall be conducted by a qualified biologist within 14 days of construction. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.*

b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service? .... Less-Than-Significant With Mitigation Incorporated

c. Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal,

filling, hydrological interruption, or other means?..... ..... Less-Than-Significant With Mitigation Incorporated

Discussion (b. and c.)
Riparian habitats are described as the land and vegetation that is situated along the bank of a stream or river. Wetlands are areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of time during the year. Vernal pools are seasonal depressional wetlands that are covered by shallow water for variable periods from winter to spring, but may be completely dry for most of the summer and fall. Vernal pools range in size from small puddles to shallow lakes, and are usually found in gently sloping plains of grasslands.

As shown in Figure 10, an intermittent 0.01-acre blue-line stream traverses the western edge of the project site. Upon site reconnaissance, MBC determined that the stream is a very weak ephemeral stream with a barely discernable OHWM. The channel is approximately one to two feet wide with no adjacent wetlands. A marginal seasonal wetland feature is located to the east of the blue-line stream, located in a low valley between two notable hillslopes. Vegetation associated with the seasonal wetland includes perennial ryegrass, creeping wild rye, curly dock, a few other marginal hydrophytes, and some upland species including black mustard and common bedstraw. The southern end of the seasonal wetland abruptly transitions to a defined channel with a notable bed and bank that would also be considered a 0.01-acre ephemeral stream. The channel is approximately three feet wide with no adjacent wetlands. MBC did not identify any riparian vegetation or habitat associated with the foregoing features.

MBC conducted a wetland delineation of the project on April 3, 2020 and April 29, 2020. A total of approximately 0.21-acres of wetlands have been delineated on-site. The delineated features include the approximately 0.19-acre seasonal wetland and 0.02-acre of ephemeral streams. The water features are respectively labeled SW-1, ES-1, and ES-2 on the Wetland Delineation Map included as part of the PSR (see Figure 10).

The proposed project includes mitigation measures to ensure that the proposed project would fully avoid development on or near the wetland features, such as the proposed implementation of 25-foot setbacks between such water features and the limits of grading. Furthermore, as mentioned previously, the wetland features would be excluded from the development area and preserved in perpetuity as part of the open space area. Nonetheless, the potential exists for construction and operations within the development area to have a ***potentially significant*** impact regarding riparian habitat, seasonal wetlands, or vernal pools as defined by Section 404 of the Clean Water Act, or regarding a substantial adverse effect on a riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS.

Figure 10
Wetland Delineation



Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 7. *The proposed project shall be designed in compliance with stream setback requirements set forth in Conservation Measures 1.7 and 2.12 of the ECCCHCP/NCCP, including the following avoidance and minimization measures:*

- *All wetlands to be avoided by covered activities shall be temporarily staked in the field by a qualified biologist, and a 25-foot buffer zone shall be implemented along the seasonal wetland swale and between the ephemeral streams and development activities.*
- *Herbicides shall not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In such a case, herbicides that have been approved by the EPA for use in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides shall be applied to the ruderal grassland within the buffer area during the dry season to control non-native invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.*
- *Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the ephemeral streams or the seasonal wetland swale shall be trained by a qualified biologist in the avoidance and minimization measures set forth by this IS/MND and the permit obligations of the project proponents working under the ECCCHCP.*

Mitigation Measure 8. *Vehicles and equipment shall be parked on pavement, existing roads, and previously disturbed areas. No construction or maintenance vehicles shall be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill. In addition, trash generated during project construction shall be promptly removed from the site.*

Mitigation Measure 9. *The proposed project shall be implemented in compliance with the hydrologic maintenance and erosion minimization measures set forth in Conservation Measures 1.10 and 2.12 of the ECCCHCP/NCCP. Standard construction best*

management practices (BMPs) shall be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs shall include the use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences, or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

Appropriate erosion-control measures (e.g. fiber rolls, filter fences, vegetative buffer strips) shall be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh shall be of material that shall not entrap reptiles or amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Fiber rolls used for erosion control shall be certified as free of noxious weed seed. Seed mixtures applied for erosion control shall not contain invasive non-native species, and shall be composed of native species or sterile non-native species.

d. Would the project interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?.....Less-Than-Significant Impact

Discussion (d.)

The proposed project site is bordered by Mitchell Canyon Road to the east and is surrounded by single-family residential development on the site's northern and western borders. A CEMEX quarry plant is located adjacent to the vacant land that borders the project site to the south. Such uses act as impediments to wildlife movement, and the project site does not provide connections to any nearby areas of high quality habitat. Although the ECCCHCP/NCCP mapped the project site as within a region of potential movement habitat for the Alameda whipsnake and western pond turtle, upon site reconnaissance, MBC determined that the project site does not contain the mosaic of scrub, chaparral, grassland, or woodland habitat required by the Alameda whipsnake, nor does the project site maintain a hydrological regime capable of supporting western pond turtle. The limited on-site habitat reduces the likelihood that the project site would be used for movement of the Alameda whipsnake or western pond turtle. Although the site could be used for scattered nesting of various raptor species, the site is not known to act as a substantial wildlife nursery site. Furthermore, the open space area of the site would continue to provide habitat for nesting species with implementation of the project. As such, the proposed project would not interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites. Therefore, a ***less-than-significant*** impact would occur.

e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?..... ..... Less-Than-Significant With Mitigation Incorporated

Discussion (e.)

The proposed project would be required to comply with all relevant policies and ordinances of the City of Clayton, including the Tree Protection Ordinance (Chapter 15.70 of the Municipal Code). The Tree Protection Ordinance calls for the protection of certain species of trees, and a Tree Removal Permit is required when removal of any tree with a trunk diameter of six inches or greater is proposed. An Arborist Report was prepared by Trees, Bugs, Dirt Landscaping Consulting and Training for the project site to inventory all on-site trees and make recommendations regarding tree preservation and removal based on tree health, structural condition, and location.[8] The Arborist Report evaluated a total of 58 trees, which included 36 trees with trunks located on-site, 18 trees located on adjacent properties bordering the project site, and four trees with trunks embedded along various fences surrounding the project site. A total of 37 trees are slated for removal. Thirty-four of the 37 trees proposed for removal are protected pursuant to the City's Tree Preservation Ordinance. It should be noted that approximately 26 of the 34 protected trees were determined to have various indicators of poor health and would be recommended for removal regardless of ground-disturbing activities associated with the proposed project.

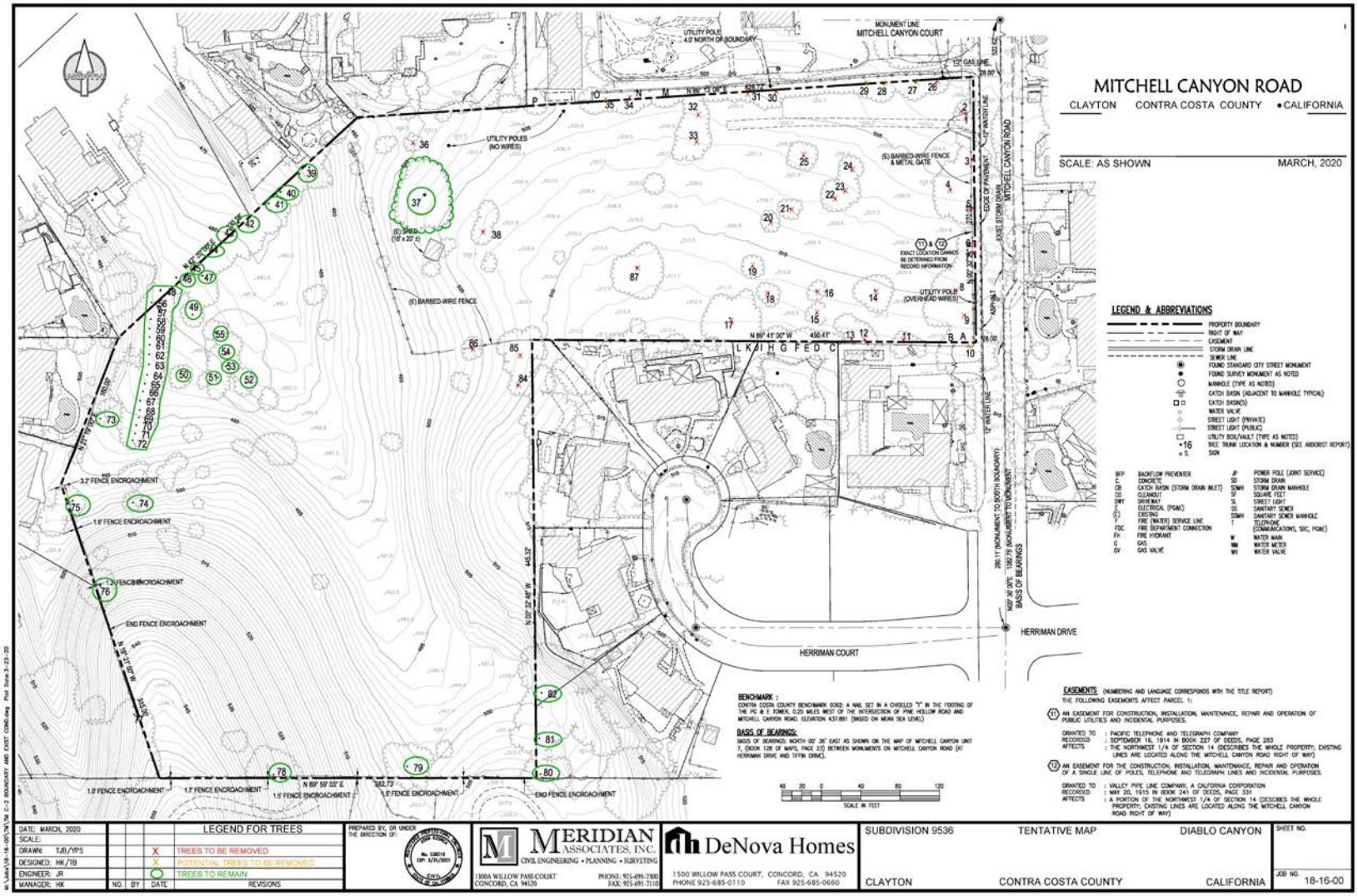
A large blue oak tree (Tree #37 per the Arborist Report) would be preserved within the development area as part of Lot 7 (see Figure 11).

The planting of replacement trees or payment of an in-lieu fee is required for trees designated as protected trees per Chapter 15.70 of the City's Municipal Code. As noted above, 26 of the protected trees proposed to be removed are in poor health and would be recommended for removal in any case. The other 8 protected trees proposed for removal are considered to be in good or excellent health. The cumulative tree diameter of those healthy trees is 152 inches. The City's Municipal Code Section 15.70.035 allows for discretion regarding the requirement for a tree replacement plan. Section 15.70.040 indicates that replacement may be determined based upon 50% of the cumulative trunk diameter of the removed trees (i.e. 76 inches), or 33% of the cumulative trunk diameter of the removed trees (i.e. approximately 50 inches) if the replacement trees are of a variety listed in Section 15.70.015 C. Additionally, Section 15.070 allows the payment of an in-lieu fee if it is determined that the limitations of the site cannot accommodate the entirety of the tree replacement.

The arborist report includes recommendations to protect preserved trees during construction. Without implementation of protection measures, the proposed project could conflict with policies protecting biological resources, and could result in a ***potentially significant*** impact.

[8] Trees, Bugs, Dirt Landscape Consulting and Training. *Arborist Report: Diablo Canyon, Mitchell Canyon Road, Clayton, CA.* April 30th, 2020.

Figure 11
Tree Exhibit



Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 10. *The following tree protection measures for tree to remain shall be implemented pursuant to the recommendations listed in the Arborist Report, to the extent feasible:*

- *The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the existing trees to be retained, as identified in the Arborist Report;*
- *A five-foot tree protection zone shall be established from the northern and southern fence lines extending into the development area where no foot, vehicle, storage, or any other intrusion shall be allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within the tree protection zone;*
- *Landscaping around the protected oak (Tree #37) on-site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface;*
- *Installation of fences along the northern and southern borders shall adhere to tree protection measures to the greatest extent possible and avoid grading or digging within five radial feet of all protected tree trunks;*
- *New trees shall be selected, installed, and maintained as per requirements of the City of Clayton; and*
- *If a new fence line is established for the property, rather than demolishing and reinstalling the existing fence line, four border trees shall be preserved if feasible.*

Mitigation Measure 11. *Prior to the initiation of ground-disturbing activities, the potential for root damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Air spading around trees to be retained shall be performed along property lines within the northern and southern portions of the project site;*
- *All exposed roots shall be pruned using sharp sawzall blades;*
- *Pruned roots shall be covered with soil.*

Mitigation Measure 12. *Prior to the initiation of ground-disturbing activities, the potential for crown damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Crowns shall be raised as specified to allow for vehicle and equipment clearance:*
  - *Crowns shall be raised 16 feet above the existing grade;*
  - *50 percent of live crown ratio shall be maintained;*
  - *Thinning cuts shall be made two inches in diameter or smaller;*
  - *Downward growing branches from zero to 15 feet above grade shall be removed;*
  - *Branches larger than two inches in diameter shall be shortened by heading the branches back to at least half of their diameters; and*
  - *No more than 25 percent of a crown is to be removed in one season.*

Mitigation Measure 13. *A tree replacement plan for the removal of 152 inches of cumulative trunk diameter of protected tree species shall be prepared in accordance with Municipal Code Section 15.070.040 A1.or A.2., or, subject to determination by the Community Development Director or Planning Commission, the applicant must pay an in-lieu fee to the City for the purchase and installation of trees of equivalent value.*

f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan? ..... Less-Than-Significant-Impact

Discussion (f.)

The ECCCHCP/NCCP was prepared in 2007 and the City of Clayton became a signatory in January 2008. The ECCCHCP/NCCP is intended to provide a coordinated, regional approach to special-status species conservation and development regulation. A total of 28 species are covered under the ECCCHCP/NCCP. The ECCCHCP/NCCP provides streamlined permits from the USFWS and CDFW for covered species for new urban development projects and a variety of public infrastructure projects. Development fees within the ECCCHCP/NCCP area are assessed based on fee zones and land cover types.

A PSR has been prepared for the proposed project in order to comply with and receive permit coverage under the ECCHCP/NCCP. Per the PSR, the project site is located within Development Fee Zone 2. As noted previously, the site comprises three field-verified land cover types: 8.07 acres of annual grassland, 0.19 acres of seasonal wetland, and 0.02 acres of aquatic stream. As required by Mitigation Measure 1, the proposed project would be

subject to pay all applicable fees according to the Fee Zone Map of the ECCCHCP/NCCP prior to construction. Therefore, the project would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan, and a ***less-than-significant*** impact would result from the proposed project.

5. CULTURAL RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	□	□	X	□
b.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	□	X	□	□
c.	Disturb any human remains, including those interred outside of dedicated cemeteries.	□	X	□	□

a. Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?.....Less-Than-Significant

Discussion (a.)

The project site is primarily undeveloped, with the exception of an existing shed on-site that has not been identified as a historic resource. The site is not included in the Historical Sites listed in the City of Clayton General Plan or indicated in Exhibit V-3 of the General Plan Community Design Element. As such, the proposed project would not cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5; and a ***less-than-significant*** impact would occur.

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5? ... Less-Than-Significant With Mitigation Incorporated

c. Disturb any human remains, including those interred outside of dedicated cemeteries? Less-Than-Significant With Mitigation Incorporated

Discussion (b. and c.)

An archaeological resources review was conducted by Basin Research Associates (BASIN) for the project site.[9] The review included the results of records searches, a review of pertinent literature, and a request to the Native American Heritage Commission (NAHC) for a review of the Sacred Lands Inventory. In addition, a prehistoric and historic site record and literature search was conducted by the California Historical Resources Information System (CHRIS) Northwest Information Center at California State University for a 0.25-mile radius around the project site. A field review of the parcels was not undertaken.

The Contra Costa General Plan Archaeological Sensitivity Map shows the proposed project and vicinity as "largely urbanized areas and publicly owned lands excluded from [the] archaeological sensitivity survey."[10] The project site is located in proximity to nearby

[9] BASIN Research Associates. *Archaeological Resources Review – Mitchell Canyon Road Development, Clayton, Contra Costa County, California.* August 9, 2019.

[10] Contra Costa County. *General Plan, Open Space Element, Figure 9-2: Archaeological Sensitivity Map*. [pg. 9-11] January 18, 2005.

Mitchell Creek, located east of Mitchell Canyon Road. Water courses and springs were often focus points for Native American activity in the region. While the project site is located in proximity to a water source, resource procurement sites for food, raw materials, and/or prominent topographic features that would indicate historical Native American activity have not been recorded within the project site or in the project vicinity. CHRIS records search results indicated that neither recorded prehistoric and historic area cultural resources nor any known ethnographic, traditional, or contemporary Native American use areas and/or features of cultural significance exist within, adjacent to, or within 0.25-mile of the project site. Furthermore, a Sacred Lands File search conducted by the NAHC in 2019 returned negative results for Native American tribal resources on-site. Because cultural and/or archeological resources were not identified by the literature review, BASIN determined the likelihood of discovering such artifacts, in addition to significant subsurface cultural materials, would be low.

Although the likelihood of disturbing prehistoric and historic era cultural resources is low, unknown archaeological resources, including human remains, have the potential to be uncovered during ground-disturbing construction and excavation activities at the project site. If previously unknown resources are encountered during construction activities, the proposed project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to CEQA Guidelines Section 15064.5 and/or disturb human remains, including those interred outside of dedicated cemeteries. Therefore, the proposed project could result in a ***potentially significant*** impact to such resources.

Mitigation Measure(s)

The following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 14. *Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.*

Mitigation Measure 15. *Pursuant to State Health and Safety Code §7050.5(c) and State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native*

American, the Coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the Most Likely Descendant (MLD). The MLD shall work with the contractor to develop a program for re-internment of the human remains and any associated artifacts. Additional work shall not take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.

6. ENERGY

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	□	□	X	□
b.	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	□	□	X	□

a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? .....Less-Than-Significant

b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? .....Less-Than-Significant

Discussion (a. and b.)

The main forms of available energy supply are electricity, natural gas, and oil. A description of the 2019 California Green Building Standards Code (CAL Green Code) and the Building Energy Efficiency Standards, with which the proposed project would be required to comply, as well as discussions regarding the proposed project's potential effects related to energy demand during construction and operations are provided below.

California Green Building Standards Code

The 2019 CAL Green Code is a portion of the CBC, otherwise known as the CAL Green Code (CCR Title 24, Part 11), which became effective on January 1, 2020.[11] The purpose of the CAL Green Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices. The provisions of the code apply to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure throughout California. Requirements of the CAL Green Code include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of Electric Vehicle charging infrastructure in residential and non-residential structures;
- Indoor water use consumption is reduced through the establishment of maximum fixture water use rates;
- Outdoor landscaping must comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), or a local ordinance, whichever is more stringent, to reduce outdoor water use;

[11] California Building Standards Commission. *California Green Building Standards Code*. 2019.

- Diversion of 65 percent of construction and demolition waste from landfills; and
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board.
- For some single-family and low-rise residential development developed after January 1, 2020, mandatory on-site solar energy systems capable of producing 100 percent of the electricity demand created by the residence(s). Certain residential developments, including those developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement.

Building Energy Efficiency Standards

The 2019 Building Energy Efficiency Standards is a portion of the CBC, which expands upon energy efficiency measures from the 2016 Building Energy Efficiency Standards. The 2019 Building Energy Efficiency Standards are in effect for building permit applications submitted after January 1, 2020. The 2019 standards provide for additional efficiency improvements beyond the 2016 standards. Non-residential buildings built in compliance with the 2019 standards are anticipated to use approximately 30 percent less energy compared to the 2016 standards, primarily due to lighting upgrades. For residential buildings, compliance with the 2019 standards will use approximately seven percent less energy due to energy efficiency measures compared to homes built under the 2016 standards. One of the improvements included within the 2019 Building Energy Efficiency Standards is the requirement that certain residential developments, including some single-family and low-rise residential developments, include on-site solar energy systems capable of producing 100 percent of the electricity demanded by the residences. Certain residential developments, including developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement; however, such developments are subject to all other applicable portions of the 2019 Building Energy Efficiency Standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use approximately 53 percent less energy than those under the 2016 standards.

Construction Energy Use

Construction of the proposed project would involve on-site energy demand and consumption related to use of oil in the form of gasoline and diesel fuel for construction worker vehicle trips, hauling and materials delivery truck trips, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to provide additional electricity demands for temporary on-site lighting, welding, and for supplying energy to areas of the site where energy supply cannot be met via a hookup to the existing electricity grid. Project construction is not anticipated to involve the use of natural gas appliances or equipment.

Even during the most intense period of construction, due to the different types of construction activities (e.g., site preparation, grading, building construction), only portions of the project site would be disturbed at a time, with operation of construction equipment occurring at different locations on the project site, rather than a single location. In addition, all construction equipment and operation thereof would be regulated per the CARB In-Use Off-Road Diesel Vehicle Regulation. The In-Use Off-Road Diesel Vehicle Regulation is

intended to reduce emissions from in-use, off-road, heavy-duty diesel vehicles in California by imposing limits on idling, requiring all vehicles to be reported to CARB, restricting the addition of older vehicles into fleets, and requiring fleets to reduce emissions by retiring, replacing, or repowering older engines, or installing exhaust retrofits. In addition, as a means of reducing emissions, construction vehicles are required to become cleaner through the use of renewable energy resources. The In-Use Off-Road Diesel Vehicle Regulation would therefore help to improve fuel efficiency for equipment used in construction of the proposed project. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to further reduce demand on oil and limit emissions associated with construction.

The CARB prepared the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan),[12] which builds upon previous efforts to reduce GHG emissions and is designed to continue to shift the California economy away from dependence on fossil fuels. Appendix B of the 2017 Scoping Plan includes examples of local actions (municipal code changes, zoning changes, policy directions, and mitigation measures) that would support the State's climate goals. The examples provided include, but are not limited to, enforcing idling time restrictions for construction vehicles, utilizing existing grid power for electric energy rather than operating temporary gasoline/diesel-powered generators, and increasing use of electric and renewable fuel-powered construction equipment. The CARB In-Use Off-Road Diesel Vehicle Regulation described above, with which the proposed project must comply, would be consistent with the intention of the 2017 Scoping Plan and the recommended actions included in Appendix B of the 2017 Scoping Plan.

Based on the above, the temporary increase in energy use occurring during construction of the proposed project would not result in a significant increase in peak or base demands or require additional capacity from local or regional energy supplies. In addition, the proposed project would be required to comply with all applicable regulations related to energy conservation and fuel efficiency, which would help to reduce the temporary increase in demand.

Operational Energy Use

Energy use associated with operation of the proposed project would be typical of residential uses, requiring electricity and natural gas for interior and exterior building lighting, heating, ventilation, and air conditioning (HVAC), electronic equipment, machinery, refrigeration, appliances, security systems, and more. Maintenance activities during operations, such as landscape maintenance, would involve the use of electric or gas-powered equipment. In addition to on-site energy use, the proposed project would result in transportation energy use associated with vehicle trips generated by the proposed residential development. The project would be required to include a solar photovoltaic system in accordance with Building Energy Efficiency Standards, which would reduce impacts on electricity and natural gas generated by the proposed project. All electrical and natural gas needs that could not be met by solar energy would be provided by PG&E.

[12] California Air Resources Board. *The 2017 Climate Change Scoping Plan Update.* January 20, 2017.

The proposed residential project would be subject to all relevant provisions of the most recent update of the CBC, including the CAL Green Code and the Building Energy Efficiency Standards. Adherence to the most recent CAL Green Code and the Building Energy Efficiency Standards would ensure that the proposed structures would consume energy efficiently through the incorporation of such features as efficient water heating systems, high performance attics and walls, and high efficacy lighting. Required compliance with the CBC would ensure that the building energy use associated with the proposed project would not be wasteful, inefficient, or unnecessary. In addition, California has set energy-use reduction goals targeting zero-net-energy use in all new homes by 2020. The CALGreen Code requires that new buildings use a combination of energy efficiency and distributed renewable energy generation to meet all annual energy needs. As such, the proposed residences would be constructed to incorporate renewable energy systems sufficient to meet 100 percent of the proposed residences' electricity demand. Required compliance with the CBC would ensure that the building energy use associated with the proposed project would not be wasteful, inefficient, or unnecessary.

With regard to transportation energy use, the proposed project would comply with all applicable regulations associated with vehicle efficiency and fuel economy. In addition, as discussed in Section 17, Transportation, of this IS/MND, the project area is currently provided transit service by the Central Contra Costa Transit Authority. The nearest bus stop relative to the project site is located at the Clayton Road/Mitchell Canyon Road intersection, approximately 0.5-mile north of the site. Transit would provide access to several grocery stores, restaurants, banks, and schools within close proximity to the project site. The site's access to public transit and proximity to such uses would reduce VMT and, consequently, fuel consumption associated with the proposed project, thereby providing for increased pedestrian connectivity with the surrounding area and resulting in reduced vehicle use.

Conclusion

Based on the context above, construction and operation of the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Thus, a ***less-than-significant*** impact would occur.

7. GEOLOGY AND SOILS.

Issues			Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:						
a.	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
	i.	Rupture of a known earthquake fault, as delineated on the most recent Alquist - Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	□	□	X	□
	ii.	Strong seismic ground shaking?	□	□	X	□
	iii.	Seismic-related ground failure, including liquefaction?	□	□	X	□
	iv.	Landslides?	□	X	□	□
b.	Result in substantial soil erosion or the loss of topsoil?		□	X	□	□
c.	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?		□	X	□	□
d.	Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial risks to life or property?		□	□	X	□
e.	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?		□	□	□	X
f.	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		□	□	X	□

a-i. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist - Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault? .....Less-Than-Significant Impact

a-ii. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?.....Less-Than-Significant Impact

a-iii. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction? .....Less-Than-Significant Impact

Discussion (a-i., a-ii, aiii.)

A Geotechnical Investigation was prepared for the proposed project by Stevens, Ferrone, & Bailey Engineering Company, Inc. (see Appendix C).[13] According to the Geotechnical Report, the proposed project site is not located within an Alquist-Priolo Fault Zone; however, large earthquakes have historically occurred in the San Francisco Bay Area. The nearest active fault is the Greenville Fault, located approximately one mile east of the site. Other active faults in the region include the Concord, Calaveras, Cordelia, Green Valley, Hayward, and San Andreas faults. Given that none of the faults cross the project site, the potential for ground rupture is low.

An earthquake of moderate to high magnitude generated within the project region could cause considerable ground shaking at the site. Nonetheless, all structures proposed for the project would be designed in accordance with the requirements of the adopted edition of the CBC in place at the time of construction. Structures built according to the seismic design provisions of current building codes should be able to: 1) resist minor earthquakes without damage; 2) resist moderate earthquakes without structural damage but with some nonstructural damage; and 3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Consequently, as the proposed project would comply with all applicable CBC recommendations, the project would not be anticipated to result in the risk of loss, injury, or death due to structural collapse.

Liquefaction is a phenomenon in which saturated cohesionless soils are subject to a temporary loss of shear strength due to pore pressure build-up under the cyclic shear stresses associated with earthquakes. Soils that are most susceptible to liquefaction are lean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. Per the Geotechnical Investigation prepared for the project site, the site is located in an area that has been characterized as having very low to low liquefaction susceptibility based on the material types and densities of materials present on-site.

Therefore, the proposed project would not expose people or structures to substantial adverse effects including the risk of loss, injury, or death involving the rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zone Map, strong seismic ground shaking, and liquefaction, resulting in a ***less-than-significant*** impact.

[13] Stevens, Ferrone, & Bailey Engineering Company, Inc. *Geotechnical Investigation prepared for the Mitchell Canyon Development, Clayton, California, SFB Project No. 155-90.* February 28, 2020.

a-iv. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related landslides? ..... Less-Than-Significant Impact With Mitigation Incorporated

c. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? ..... Less-Than-Significant Impact With Mitigation Incorporated

Discussion (a-iv. and c.)

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. Because the potential for liquefaction was determined to be low, the potential for lateral spreading to pose a risk to the proposed development is low. However, general site surface grades slope gently downwards toward the north, with slope inclinations intensifying at higher elevations within the open space area and flattening within the lower elevations of the development site. The edge of the development area near the drainage channel contains a sloping open face, which may experience downward and lateral movements that could cause ground surface movements, including potential movement of any adjacent improvements such as foundations, utilities, pavements, driveways, walkways, curbs, and gutters. To reduce the potential for damaging movements, the Geotechnical Investigation recommends that slopes be appropriately restrained using an engineered retaining system, such as deepened curbs and foundations that are designed to resist lateral earth pressures and act as a retaining wall.

Seismically-induced landslides are triggered by earthquake ground shaking. The risk of landslide hazard is greatest in areas with steep, unstable slopes. According to the Geotechnical Report prepared for the proposed project, the topography of the development site slopes slightly toward the north but is generally flat. While the open space area contains steep slopes, the open space area would not be affected by grading or other construction-related activities. Furthermore, per the California Earthquake Hazards Zone Application, the project site is not located within a designated seismic hazard zone for landslides.[14] Thus, the proposed project would not be subject to substantial landslide risks.

Subsidence occurs when the earth's surface sinks due to settlement of soils during earthquake shaking, excessive groundwater extraction, and/or loose soil conditions. Groundwater extraction would not occur at the site; however, groundwater was encountered during a boring test near the drainage channel at a depth of about ten feet. During field explorations, layers of soft to stiff clays and silts with sand and gravel, as well as medium dense gravels, were encountered at depths of approximately four feet within the

[14] California Department of Conservation. *California Earthquake Hazards Zone Application.* Available at: https://maps.conservation.ca.gov/cgs/EQZApp/app/. Accessed August 2020.

northeast facing hillside in the open space area, and two feet in all other areas of the project site. The soft to firm soils that mantle the soil were determined to be weak and highly compressible. Therefore, on-site soils could experience measurable consolidation settlements. In order to minimize potential risks associated with compressible soils, the Geotechnical Report provides specific recommendations related to excavation standards.

Based on the above, if the recommendations within the Geotechnical Report related to compressible soils and lateral spread are not properly implemented during construction of the proposed project, the project could result in subsidence, and a ***potentially significant*** impact could occur as a result of the proposed project.

Mitigation Measure(s)
Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 16. *Prior to approval of the improvement plans for the project, all recommendations from the Geotechnical Report prepared for the project by Stevens, Ferrone, & Bailey Engineering Company, Inc (2020) shall be incorporated into the improvement plans to the satisfaction of the City Engineer. In addition, the applicant shall retain a California Registered Geotechnical Engineer to perform field observations during grading. Compliance with the recommendations of the Geotechnical Engineer shall be provided to the City Engineer.*

b. Would the project result in substantial soil erosion or the loss of topsoil? ... Less-Than-Significant With Mitigation Incorporated

Discussion (b.)
Construction of the proposed project would involve grading of the development footprint, including sloped portions of the project site, to accommodate the proposed site improvements. After grading, but prior to the overlaying of the ground surface with structures, topsoil of the disturbed portions of the site would be exposed, and the earth surfaces would be susceptible to erosion from wind and water. During the grading and excavation phases of construction, appropriate measures consistent with the Clayton Stormwater Management Ordinance and other applicable regulations (e.g., State Regional Water Quality Control Board National Pollutant Discharge Elimination System regulations) would be required to be implemented in order to control erosion on the site and minimize the impacts related to loss of topsoil. See Section 10, Hydrology and Water Quality, of this IS/MND for further discussion regarding the relationship of erosion to water quality.

The proposed project could result in soil erosion or the loss of topsoil associated with grading and excavation of the project site during construction. Therefore, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 17. *Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:*

- *Hydro-seeding;*
- *Placement of erosion control measures within drainage ways and ahead of drop inlets;*
- *The temporary lining (during construction activities) of drop inlets with "filter fabric";*
- *The placement of straw wattles along slope contours;*
- *Use of a designated equipment and vehicle "wash-out" location;*
- *Use of siltation fences;*
- *Use of on-site rock/gravel road at construction access points; and*
- *Use of sediment basins and dust palliatives.*

d. Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial risks to life or property? ..... Less-Than-Significant Impact

Discussion (d.)

Expansive soils are subject to shrinking and swelling as a result of seasonal fluctuations in soil moisture content, potentially resulting in heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Per the Geotechnical Report, the on-site soils were indicated to have a high shrink-swell potential and moderate potential for expansion. However, building damage due to volume changes associated with expansive soils may be reduced through proper foundation design. In order to minimize potential risks associated with expansive soils, the Geotechnical Report provides specific recommendations related to foundation design. As noted above, under question 'aiv' and 'c', the project would be required to implement Mitigation Measure 16, which requires recommendations from the Geotechnical Report be incorporated into the project improvement plans. Implementation of Mitigation Measure 16 would ensure that the recommendations within the Geotechnical Report related to expansive soils are properly implemented during construction. Thus, the proposed project would not create substantial direct or indirect risks to life or property related to being located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), and a ***less-than-significant*** impact would occur.

e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? ..... No Impact

Discussion (e.)

The proposed residences would be connected to the City of Clayton's sewer system and would not require the installation or use of septic tanks. Therefore, the proposed project would have ***no impact*** regarding having soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems.

f. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? ..... Less-Than-Significant Impact

Discussion (f.)

The City's General Plan does not note the existence of any unique geologic features or paleontological resources within the City. Consequently, implementation of the proposed project would not be anticipated to have the potential to result in direct or indirect destruction of unique geologic features.

In addition, the majority of the surrounding area is developed and paleontological resources are not known to have not been encountered in the vicinity. Thus, existing paleontological resources are not expected to occur on the site. Nonetheless, the potential exists for previously unknown paleontological resources to exist within the project site. Ground-disturbing activity such as grading, trenching, or excavating associated with implementation of the proposed project would have the potential to disturb or destroy such resources, if present. However, Mitigation Measures 14 and 15 require the appropriate actions be taken should any cultural resources, human remains, or bone of unknown origin be found within the project site during construction activities. With the implementation of Mitigation Measures 14 and 15, the proposed project would not result in the direct or indirect destruction of a unique paleontological resource, and a ***less-than-significant*** impact would occur.

8. GREENHOUSE GAS EMISSIONS

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	□	□	X	□
b.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	□	□	X	□

a. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?.....Less-Than-Significant Impact

b. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? .....Less-Than-Significant Impact

Discussion (a. and b.)

Emissions of greenhouse gases (GHGs) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Implementation of the proposed project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO_2) and, to a lesser extent, other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO_2 equivalents ($MTCO_2e$/yr).

The proposed project is located within the jurisdictional boundaries of BAAQMD. The BAAQMD threshold of significance for project-level operational GHG emissions is 1,100 $MTCO_2e$/yr or 4.6 $MTCO_2e$/yr per service population (population + employees). BAAQMD's approach to developing a threshold of significance for GHG emissions is to identify the emissions level for which a project would not be expected to substantially conflict with existing California legislation adopted to reduce statewide GHG emissions needed to move towards climate stabilization. If a project would generate GHG emissions

above the threshold level, the project would be considered to generate significant GHG emissions and conflict with applicable GHG regulations.

The quantitative thresholds above were adopted by BAAQMD in order to demonstrate a project's compliance with statewide emissions reduction targets established by the state legislature in Assembly Bill 32. Since adoption of the BAAQMD's thresholds of significance, the state legislature has passed Senate Bill (SB) 32, which established further statewide emissions targets. BAAQMD has not yet adopted thresholds that may be used to determine a project's compliance with SB 32. In the absence of adopted GHG emissions thresholds to assess compliance with SB 32, the BAAQMD has directed jurisdictions to qualitatively assess a project's compliance with the recommended mitigation measures within the *California's 2017 Climate Change Scoping Plan* (2017 Scoping Plan) as an alternative means of assessing a project's potential impacts related to GHG emissions.[15]

The proposed project's GHG emissions were quantified with CalEEMod using the same assumptions as presented in Section 3, Air Quality, of this IS/MND, and compared to the thresholds of significance noted above. The proposed project's required compliance with the 2019 California Building Energy Efficiency Standards Code was assumed in the modeling. In addition, the CO_2 intensity factor within the model was adjusted to reflect the PG&E's anticipated CO_2 emissions factor for the year 2023. All CalEEMod results are included in Appendix A to this IS/MND.

BAAQMD Thresholds

Construction GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change. Neither the City nor BAAQMD have an adopted threshold of significance for construction-related GHG emissions, nor do they require quantification. Nonetheless, the proposed project's construction GHG emissions have been estimated. The CalEEMod emissions estimates prepared for the proposed project determined that unmitigated project construction would result in total emissions of 440.61 $MTCO_2e$ over the course of the construction period.

The estimated maximum annual GHG emissions related to operations of the proposed project are presented in Table 4 below. As shown in Table 4, the project's maximum annual unmitigated operation GHG emissions were estimated to be approximately 182.60 $MTCO_2e$/yr. Thus, implementation of the proposed project would result in operational emissions well below the BAAQMD's applicable 1,100 $MTCO_2e$/yr threshold of significance for GHG emissions. Even if the total construction emissions are added to the annual operations emissions, the sum would be 623.21 $MTCO_2e$, which remains below the BAAQMD threshold of significance.

[15] Flores, Areana. Environmental Planner, Planning and Climate Protection. Personal communication [phone] with Jacob Byrne, Senior Associate/Air Quality Technician, Raney Planning and Management, Inc. September 17, 2019.

Table 4 Operational GHG Emissions	
Source	**GHG Emissions ($MTCO_2e$/yr)**
Area	0.22
Energy	26.33
Mobile	143.09
Waste	10.77
Water	2.18
Total Annual Operational GHG Emissions	**182.60**
BAAQMD Threshold	**1,100 $MTCO_2e$/yr**
Exceeds Threshold?	**NO**
Source: CalEEMod, August 2020 (see Appendix A).	

Consistency with 2017 Scoping Plan

Appendix B to the CARB's 2017 Scoping Plan provides examples of potentially feasible mitigation measures that could be considered to assess a project's compliance with the State's 2030 GHG emissions reductions goals. Thus, general compliance with the Local Actions within the 2017 Scoping Plan could be considered to demonstrate the project's compliance with SB 32. The project's consistency with the applicable Local Actions within the 2017 Scoping Plan is assessed in Table 5 below.

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
Construction	
Enforce idling time restrictions for construction vehicles.	CARB's In-Use Off-Road Vehicle Regulations include restrictions that limit idling time to five minutes under most situations. Construction fleets and all equipment operated as part of on-site construction activities would be subject to CARB's idling restrictions. As such, the proposed project would be required to comply with this measure.
Require construction vehicles to operate with the highest tier engines commercially available.	The project applicant has not committed to using construction equipment that complies with the highest tier engines commercially available. However, it should be noted that construction emissions would fall below the BAAQMD's thresholds. Nonetheless, project compliance with this measure is uncertain.
Divert and recycle construction and demolition waste, and use locally-sourced building materials with a high recycled material content to the greatest extent feasible.	The CALGreen Code requires the diversion of construction and demolition waste, and the proposed project would be required to comply with the requirements within the most up-to-date CALGreen Code. The project would not include any demolition activity. Thus, the project would be considered to comply with the suggested measure.
Minimize tree removal, and mitigate indirect GHG emissions increases that occur due to vegetation removal, loss of sequestration, and soil disturbance.	Of the 58 existing on-site trees, 37 trees are recommended for removal as part of the proposed project. However, pursuant to Chapter 15.70.040, Tree Replacement Plan, of the City's Municipal Code, the preliminary Landscaping Plan for the project site includes the provision of new trees as a means of

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
	replacement. As such, the project would comply with the suggested measure.
Utilize existing grid power for electric energy rather than operating temporary gasoline/diesel powered generators.	The contractor would use existing grid electricity to the extent feasible. However, the possibility exists that temporary generators will be used for electricity in instances where grid electricity is not accessible. Overall, the project would be considered to generally comply with the suggested measure.
Increase use of electric and renewable fuel powered construction equipment and require renewable diesel fuel where commercially available.	The project applicant has not committed to the use of alternatively fueled construction equipment. Furthermore, the commercial availability of renewable diesel in the project area is currently unknown. Consequently, compliance with this suggested measure is uncertain at this time.
Require diesel equipment fleets to be lower emitting than any current emission standard.	The project applicant has not committed to reducing emissions from the construction fleet beyond any current emissions standards. Consequently, compliance with this suggested measure is uncertain at this time.
Operations	
Comply with lead agency's standards for mitigating transportation impacts under SB 743.	As noted in Section 17, Transportation, of this IS/MND, the project would result in a less-than-significant impact related to VMT. Because buildout of the project would produce fewer residences than what was originally planned for the project site, project-generated VMT would be less than what was anticipated for the site by the General Plan. In addition, the project site's proximity to public transit would further reduce VMT. Thus, the project would be considered to comply with the suggested measure.
Require on-site EV charging capabilities for parking spaces serving the project to meet jurisdiction-wide EV proliferation goals.	Per the 2019 CALGreen Code, residential projects are required to install a listed raceway to accommodate a dedicated 208/240-volt branch circuit for each unit, which would be suitable for EV charging. Compliance with the 2019 CALGreen Code would ensure that the proposed project provides sufficient EV charging infrastructure to comply with this suggested measure.
Provide on- and off-site safety improvements for bike, pedestrian, and transit connections, and/or implement relevant improvements identified in an applicable bicycle and/or pedestrian master plan.	As part of the project, a new sidewalk would be provided along the project's Mitchell Canyon Road frontage and along the northern side of the internal street. In the vicinity of the project site, Mitchell Canyon Road provides a gravel pedestrian route. Development of the proposed sidewalk would increase connectivity to the nearby neighborhoods and public transit stops. The project would not include additions or changes to the existing bicycle infrastructure. Overall, the project would comply with the suggested measure. Additional discussion of bicycle, pedestrian, and transit facilities is provided in Section 17, Transportation, of this IS/MND.
Require on-site renewable energy generation.	The CBC requires that residential structures that are three-stories or less in height be constructed with

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
	renewable energy systems sufficient to provide 100 percent of the electricity required for the residence. The proposed single-family residences would be subject to such requirements. Due to the CBC's requirements regarding renewable energy systems for residential land uses, the proposed project would include on-site renewable energy generation and would comply with this measure.
Prohibit wood-burning fireplaces in new development, and require replacement of wood-burning fireplaces for renovations over a certain size development.	The proposed project would not include wood-burning fireplaces. Thus, the proposed project would comply with the suggested measure.
Require cool roofs and "cool parking" that promotes cool surface treatment for new parking facilities as well as existing surface lots undergoing resurfacing.	The 2019 Building Energy Efficiency Standards contains requirements for the thermal emittance, three-year aged reflectance, and Solar Reflectance Index (SRI) of roofing materials used in new construction and re-roofing projects. Such standards, with which the project would be required to comply, would help to reduce heating and cooling costs associated with the proposed project. Therefore, the proposed project would generally comply with the suggested measure.
Require solar-ready roofs.	The CBC requires that new residential structures be built with rooftop solar. Therefore, the proposed project would exceed the requirements of this suggested measure.
Require organic collection in new developments.	Solid waste, recycling, and yard waste collection services are provided to the City of Clayton by Republic Services. Thus, future residents of the proposed project would have access to such organic collection services, and the project would generally comply with the suggested measure.
Require low-water landscaping in new developments (see CALGreen Divisions 4.3 and 5.3 and the Model Water Efficient Landscape Ordinance [MWELO], which is referenced in CALGreen). Require water efficient landscape maintenance to conserve water and reduce landscape waste.	Landscaping within the project site would be required to comply with the CALGreen Code and all water efficiency measures therein, including the MWELO or any similar regulations adopted by the City of Clayton. Accordingly, the proposed project is anticipated to comply with this measure.
Achieve Zero Net Energy performance building standards prior to dates required by the Energy Code.	Through CBC requirements, such as the requirement to include on-site solar electricity for all proposed residences, the proposed single-family residences are anticipated to achieve Zero Net electricity. Therefore, the proposed project is anticipated to achieve substantial compliance with this measure.
Encourage new construction, including municipal building construction, to achieve third-party green building certifications, such as	The project applicant has not committed to achieving any third-party green building certifications. Consequently, compliance with the suggested measure is uncertain at this time.

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
the GreenPoint Rated program, LEED rating system, or Living Building Challenge.	
Expand urban forestry and green infrastructure in new land development.	The project would include landscaping throughout the site, and would include the planting and maintenance of several new trees, shrubs, and other plants. Therefore, the project would generally comply with the suggested measure.
Require the installation of electrical outlets on the exterior walls of both the front and back of residences to promote the use of electric landscape maintenance equipment.	Pursuant to California Electrical Code, Article 210.52(E), the project would be required to include at least one electrical outlet to be located in the perimeter of a balcony, desk, or porch. The project applicant has not committed to providing additional exterior electrical outlets to promote the use of electric landscape maintenance equipment. Consequently, the project would partially comply with the suggested measure.
Require the design of the electric outlets and/or wiring in new residential unit garages to promote electric vehicle usage.	The CBC requires that new residential unit garages be designed with wiring sufficient to provide future installation of electric vehicle charging infrastructure. Therefore, the proposed project would be required to comply with this measure.
Require the installation of energy conserving appliances such as on-demand tank-less water heaters and whole-house fans.	Title 20 and Title 24 of the California Code of Regulations require the use of energy efficient appliances and building systems. The proposed project would be required to comply with all applicable efficiency standards sets forth in Title 20 and Title 24 and, therefore, the project would substantially comply with the suggested measure.
Require each residential and commercial building equip buildings [sic] with energy efficient AC units and heating systems with programmable thermostats/timers.	As noted above, the proposed project would be required to comply with all energy efficiency standards set forth in Title 20 and Title 24 of the California Code of Regulations. As such, the project would generally comply with the suggested measure.
Require each residential and commercial building to utilize low flow water fixtures such as low flow toilets and faucets (see CALGreen Divisions 4.3 and 5.3 as well as Appendices A4.3 and A5.3).	The proposed project would be required to comply with the residential water efficiency regulations within the CALGreen Code. Thus, the proposed project would comply with the suggested measure.
Require the use of energy-efficient lighting for all street, parking, and area lighting.	All proposed exterior lighting would be LED type, consistent with the 2019 Building Energy Efficiency Standards. Thus, the proposed project would comply with the suggested measure.
Require the development project to propose an off-site mitigation project which should generate carbon credits equivalent to the anticipated GHG emission reductions. This would be implemented via an approved protocol for carbon credits from	The suggested mitigation measures included in the 2017 Scoping Plan are not considered to be requirements for local projects under CEQA, but instead represent options for projects to demonstrate compliance with the 2017 Scoping Plan. The inclusion of GHG off-set mitigation projects or the purchase of carbon credits is typically dependent on a project's exceedance of the

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
California Air Pollution Control Officers Association (CAPCOA), the California Air Resources Board, or other similar entities determined acceptable by the local air district. The project may alternatively purchase carbon credits from the CAPCOA GHG Reduction Exchange Program, American Carbon Registry (ACR), Climate Action Reserve (CAR) or other similar carbon credit registry determined to be acceptable by the local air district.	previously identified quantitative GHG thresholds. However, BAAQMD has not identified quantitative SB 32 thresholds that could be used to determine whether the project's anticipated emissions would be such that an off-site mitigation project or purchase GHG reduction credits would be required in order to comply with SB 32. Considering that the project has been shown to be generally consistent with the foregoing measures, the City, in its discretion as lead agency, has chosen not to require the project to implement an off-site mitigation project or purchase GHG reduction credits.
Source: California Air Resources Board. AB 32 Scoping Plan [Appendix B]. Accessible at: https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed August 2020.	

As shown in the table above, the proposed project would comply with a majority of the suggested measures and, thus, the proposed project would be considered generally consistent with the 2017 Scoping Plan. Because the 2017 Scoping Plan is the CARB's strategy for meeting the State's 2030 emissions goals established by SB 32, the project would be considered to comply with the goals of SB 32.

Consistency with Plan Bay Area 2040

The San Francisco Bay Area's Plan Bay Area 2040 has been prepared jointly by the San Francisco Bay Area Metropolitan Transportation Commission (MTC) and the ABAG. Plan Bay Area 2040 is a regional plan intended to provide a strategy for the reduction of GHG emissions and air pollutants within the San Francisco Bay Area. The Plan Bay Area 2040 is a long-range plan that serves as a Regional Transportation Plan and Sustainable Communities Strategy (SCS). As an SCS, the Plan Bay Area 2040 is required to comply with regional targets for reducing GHG emissions through the integration of transportation and land use planning. ABAG has not provided a specified means of identifying an individual development project's compliance with the Plan Bay Area 2040. For the purposes of this analysis, the proposed project is compared to the overall goal of the Plan Bay Area 2040, which is to reduce regional GHG emissions through the reduction of transportation-related emissions.

The proposed project would include new and expanded sidewalks along the frontage of Michell Canyon Road, which would provide pedestrian connections for future residents to access surrounding neighborhoods and public transit stops. The nearest public transit stop is the Clayton Road and Mitchell Canyon Road bus stop, which is located approximately 0.5-mile north of the project site. The proposed project's pedestrian connectively and proximity to public transit would help to reduce VMT levels.

Because the project would not be considered to significantly contribute to an increase in regional VMT, the proposed project would be considered consistent with the Plan Bay Area 2040, and would not conflict with the regional GHG reduction targets therein.

Conclusion

Based on the above, the proposed project would not be considered to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs; and impacts would be considered ***less than significant***.

9. HAZARDS AND HAZARDOUS MATERIALS.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	□	□	X	□
b.	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?	□	X		□
c.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	□	□	X	□
d.	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	□	□	□	X
e.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	□	□	□	X
f.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	□	□	X	□
g.	Expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires?	□	□	X	□

a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?.....Less-Than-Significant Impact

Discussion (a.)

The proposed project would include operations associated with residential uses. Operations of residential uses do not involve the routine transport, use, or disposal of hazardous materials. Thus, during operations, the proposed project would not create any hazards to the public or the environment through routine transport, use, disposal, or reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment.

Construction activities would involve the use of heavy equipment, which would contain fuels, oils, and hydraulic fluid. In addition, various other products such as concrete, paints, and adhesives would likely be used on-site. However, the project contractor would be required to comply with all California Health and Safety Codes and local ordinances regulating the temporary handling, storage, and transportation of hazardous and toxic materials, as overseen by the California Environmental Protection Agency (EPA) and

Department of Toxic Substances Control (DTSC). Should an accidental release of hazardous materials occur during construction, the City (or City crews) and/or contractor, is required to notify the Contra Costa Fire Protection District (CCCFPD), who would then monitor the conditions and recommend appropriate remediation measures.

Based on the above, the proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, and a ***less-than-significant*** impact would occur.

b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment? ..... Less-Than-Significant Impact With Mitigation Incorporated

Discussion (b.)

The following discussion provides an analysis of potential hazards related to the existing on-site conditions and surrounding uses. The analysis of existing on-site conditions is based on a Phase 1 Environmental Site Assessment (ESA) conducted for the proposed project by AdvancedGeo (AGI) (see Appendix D).[16] The Phase I ESA includes findings from a Phase I and Phase II ESA prepared for the project site by AEI in 2019.

Historical uses of the project site consisted primarily of agricultural activities. Aerial photographs dating back to 1939 indicate that the project site was primarily used to farm orchards but was cleared of agricultural crops by the early 1980s. The site has since remained undeveloped. The 2019 Phase I ESA prepared by AEI indicated that agricultural chemicals such as pesticides, herbicides, and fertilizers related to the orchard may have been present within on-site soils at the time of site reconnaissance. Several soil samples were taken in September 2019 to screen for the presence of organochlorine pesticides (OCPs), metals, and petroleum hydrocarbons. Findings from the investigation indicated that metals, TPH, gasoline, diesel, and oil were present at very-low levels in on-site soils and below Environmental Screening Levels (ESLs). Arsenic was detected in five of the soil samples at concentrations above the residential Environmental Screening Level, but below the typical background concentrations for the region. In addition, lead was detected in five of the soil samples at background concentrations. Although the presence of potentially hazardous chemicals were determined to be present on-site, the 2019 Phase II ESA and the most recent Phase I ESA prepared for the proposed project determined that none of the identified chemicals were present in amounts sufficient to be considered a recognized environmental concern (REC).

Site reconnaissance for the project site was conducted by an AGI representative on February 20, 2020. The project site consisted primarily of undeveloped land with moderate growth of shrubs and trees. An approximately ten-foot by twenty-foot wooden shed was observed within the development site, as well as a water well. Absent information

[16] AdvancedGeo. *Phase 1 Environmental Site Assessment: Clayton Trust Property APNs 121-090-011-2 and 121-090-016-1, Clayton, California, Project No. 20-4996*. February 24, 2020.

regarding the depth, use, ownership, and geology of a well, the mere presence of a well could be considered a REC due to potentially being a safety hazard. Accordingly, without proper abandonment, the existing well could pose a hazard to the general public.

Asbestos is the name for a group of naturally occurring silicate minerals that are considered to be "fibrous" and, through processing, can be separated into smaller and smaller fibers. The fibers are strong, durable, chemical resistant, and resistant to heat and fire. They are also long, thin, and flexible, such that they can be woven into cloth. Because of the above qualities, asbestos was considered an ideal product and has been used in thousands of consumer, industrial, maritime, automotive, scientific, and building products. However, later discoveries found that, when inhaled, the material caused serious illness. For buildings constructed prior to 1980, the Code of Federal Regulations (29 CFR 1926.1101) states that all thermal system insulation (boiler insulation, pipe lagging, and related materials) and surface materials must be designated as "presumed asbestos-containing material" unless proven otherwise through sampling in accordance with the standards of the Asbestos Hazard Emergency Response Act. Although a small shed currently exists on the project site, AGI determined that evidence of asbestos-containing material was not present within the structure.

Lead-based paint (LBP) is defined by federal guidelines as any paint, varnish, stain, or other applied coating that has one milligram of lead per square centimeter or greater. Lead is a highly toxic material that may cause a range of serious illnesses, and in some cases death. In buildings constructed after 1978, the presence of LBP is unlikely. Structures built prior to 1978, and especially prior to the 1960s, are expected to contain LBP. Although a small shed currently exists on the project site, AGI determined that evidence of LBP was not present within the structure.

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to groundwater flow direction. The Phase I ESA analyzed historical uses of immediately adjoining properties and determined that adjacent properties have been primarily used for agriculture until the mid-1960s, when residential development commenced to the southeast of the project site. By the early 1990s, residential development had occurred on all sides except for the south, which remains currently undeveloped. A review of various environmental databases containing local, state, and federally recognized hazardous sites determined that current and historical surrounding uses did not pose an environmental risk to the project site. Therefore, impacts would be unlikely to occur.

In summary, impacts related to the release of agricultural chemicals or exposure of construction workers to asbestos or lead-based paint would not occur. However, the proposed project would necessitate the removal of an existing on-site water well. Without proper abandonment of the existing on-site water well, the proposed project could create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

The following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 18. *Prior to initiation of any ground disturbance activities, the applicant shall hire a licensed well contractor to obtain a well abandonment permit from Contra Costa Health Services and properly abandon the on-site well to the satisfaction of the Contra Costa Health Services Department. Proof of abandonment shall be provided to the City of Clayton Community Development Department and City Engineer.*

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? ..... Less-Than-Significant Impact

Discussion (c.)

The project site is not located within one-quarter mile of any school. The nearest school is Mount Diablo Elementary School, located approximately 0.44-mile northeast of the project site. Therefore, the proposed project would result in a ***less-than-significant*** impact associated with emitting hazardous emissions or handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of a school.

d. Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? ..... No Impact

Discussion (d.)

The proposed project is not located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5,[17] and would not create a significant hazard to the public or the environment. Therefore, ***no impact*** would occur.

e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? ..... No Impact

[17] California Department of Toxic Substances Control. *EnviroStor*. Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed August 2020.

Discussion (e.)

The nearest airport to the proposed project site is the Buchanan Field Airport, located approximately eight miles to the west of the site. Therefore, the proposed project site is not located within an airport land use plan or within the vicinity or a public or private airport. As such, the project would not result in a safety hazard for people residing or working in the project area, and ***no impact*** would occur.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? .....Less-Than-Significant Impact

Discussion (f.)

The City of Clayton has an adopted Emergency Operations Plan, dated January 2012, which identifies the City's emergency planning, organizational, and response policies and procedures. The Emergency Operations Plan addresses how the City would respond to extraordinary events or disasters, including departmental Standard Operating Procedures. The primary exit routes out of the City to the north are Pine Hollow Road, Clayton Road, and Concord Boulevard. To the south, the primary exit route out of the City is Marsh Creek Road.

Although the proposed project would involve improvements to the Mitchell Canyon Road frontage, the improvements would not significantly impede vehicle traffic in the event of a major evacuation. In addition, during project construction, all equipment and materials would be staged on-site and would not substantially interfere with existing roadway operations. Furthermore, the proposed on-site roadway would provide adequate emergency access to future residents of the proposed development and emergency responders. Therefore, the proposed project would result in a ***less-than-significant*** impact associated with impairing implementation of, or physically interfering with, an adopted emergency response plan or emergency evacuation plan.

g. Would the project expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires? .....Less-Than-Significant Impact

Discussion (g.)

According to the Diablo Fire Safe Council, the City of Clayton and adjoining areas within a wildland urban interface (WUI) are at significant risk from wildfire. The WUI is defined as an area in which wildlands and communities are sufficiently close to each other to present a credible risk of fire spreading from one to another.[18] In compliance with the CBC (specifically Section 903.2.1.3, Group A-3), the design of the residences would include automatic fire sprinklers, and fire alarm systems would be incorporated pursuant to California Fire Code (CFC) requirements. Such features would help to address fire situations within the site, which would reduce the demand for fire protection services from the project site. Fire services to the Clayton area are provided by the CCCFPD, with the

[18] Diablo Fire Safe Council. *Clayton Morgan Territory Wildfire Action Plan: Public Review Draft*. January 25, 2016.

nearest station located approximately 1.3 miles east of the site by way of Mitchell Canyon Road and Clayton Road.

The proposed residential units are required to be designed in compliance with all applicable State and local standards and recommendations for new development, such as the CCCFPD's requirements for providing a water supply system for fire protection, and providing adequate emergency and fire access. Therefore, the proposed project would not expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires, and ***less-than-significant*** impact would occur.

10. HYDROLOGY AND WATER QUALITY

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	□	□	X	□
b.	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	□	□	X	□
c.	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	□	□	□	□
	i. Result in substantial erosion or siltation on- or off-site;			X	
	ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;			X	
	iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			X	
	iv. Impede or redirect flood flows?			X	
d.	In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?	□	□	□	X
e.	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	□	□	X	□

a. Would the project violate any water quality standards or waste discharge requirements? .....Less-Than-Significant Impact

Discussion (a.)

Water quality and runoff issues associated with construction and operation of the proposed project are discussed in detail below.

Construction

Per the Geotechnical Report prepared for the project site, near-surface soils on the project site were determined to have a very slow infiltration rate when thoroughly wet, thus indicating a high potential for stormwater runoff to contribute to substantial erosion. In addition, during the early stages of construction activities, topsoil would be exposed due to grading and excavation of the site. After grading and prior to overlaying the ground surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which could adversely affect water quality downstream.

The State Water Resources Control Board (SWRCB) regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a

land disturbance of one or more acres. The City's National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State's General Construction Permit prior to receipt of any construction permits. The State's General Construction Permit requires a Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the site. A SWPPP describes Best Management Practices (BMPs) to control or minimize pollutants from entering stormwater and must address both grading/erosion impacts and non-point source pollution impacts of the development project. Because the proposed project would disturb greater than one acre of land, the proposed project would be subject to the requirements of the State's General Construction Permit. Compliance with such requirements would minimize the potential for polluted runoff to leave the site during construction activities. Furthermore, Mitigation Measure 9, Mitigation Measure 10, and Mitigation Measure 11 of this IS/MND contain specific BMP requirements that the project applicant would be required to comply with during construction in order to protect the seasonal wetland and ephemeral stream features within the project site from impacts related to erosion.

Operation

The proposed residential uses would not involve operations typically associated with the generation or discharge of polluted water. Thus, typical operations on the project site would not violate any water quality standards or waste discharge requirements, nor degrade water quality. However, addition of the impervious surfaces on the site would result in the generation of urban runoff, which could contain pollutants if the runoff comes into contact with vehicle fluids on parking surfaces and/or landscape fertilizers and herbicides. All municipalities within Contra Costa County (and the County itself) are required to develop more restrictive surface water control standards for new development projects as part of the renewal of the Countywide NPDES permit.

The City of Clayton has adopted the County C.3 Stormwater Standards, which require new development and redevelopment projects that create or alter 10,000 or more sf of impervious area to contain and treat all stormwater runoff from the project site. Given that the proposed project would create approximately 37,001 sf of impervious area, the proposed project would be subject to the requirements of the SWRCB and the Regional Water Quality Control Board (RWQCB), including the C.3 Standards, which are included in the City's NPDES General Permit. Compliance with such requirements would ensure that impacts to water quality standards or waste discharge requirements would not occur during operation of the proposed project.

The Preliminary Stormwater Control Plan (SWCP) prepared for the proposed project conforms with the most recent Contra Costa Clean Water Program Stormwater C.3 Guidebook and verifies that the proposed project would comply with all City stormwater requirements. In compliance with the C.3 Guidebook, the proposed project would include two bio-retention basins (Basin A and Basin B) located in proximity to Mitchell Canyon Road and adjacent to the open space area, respectively (see Figure 12). Runoff from the developed portions of the site would be routed to the proposed bio-retention basins. The portion of the site that would remain in open space would be self-treating.

According to the Preliminary SWCP prepared for the project, the basins would be sized to exceed the minimum volume requirement necessary to adequately handle all runoff from the proposed impervious surfaces and landscaping (see Figure 12).

Bio-Retention Basin A: Runoff from pavement, rooftop and landscaped areas within Lots #1, #2, and Lots #16 through #18, would be directed to bio-retention Basin A located to the west of Mitchell Canyon Road and to east of Lot #1. Bio-retention Basin A is comprised of an irregular shaped landscape area of approximately 4,678 sf. Treated water from bio-retention Basin A would flow through a 12-inch storm drain and connect to an existing storm drain in Mitchell Canyon Road.

Bio-Retention Basin B: Runoff from Lots #3 through #15, including pavement, rooftop and landscaped areas, would be directed to Bio-retention Basin B, located adjacent to the western boundary of Lot #7 and to the east of the open space area. Treated water from Bio-retention Basin B would flow through an 18-inch storm drain and connect to a storm drain outfall located within the open space area. The storm drain outfall would incorporate an energy dissipator which would slow the release of discharged water to protect slopes within the open space area from erosion. Bio-retention Basin B is comprised of an irregular shaped landscape area of approximately 11,980 sf.

The bio-retention basins would remove pollutants primarily by filtering runoff slowly through an active layer of soil. The process of stormwater moving through the soil layers would remove pollutants from the stormwater prior to subsurface infiltration or discharge to City infrastructure. Each of the bio-retention basins would be designed and constructed according to criteria from the Contra Costa Clean Water Program Stormwater C.3 Guidebook. Specifically, the bio-retention basins would include 18-inch depth soil mix with minimum long-term percolation rate of five inches per hour, and a perforated pipe under drain would be bedded near the top with holes facing downward. In addition, the bio retention areas would be designed to accommodate runoff for treatment and hydro-modification as specified in the C.3 manual.

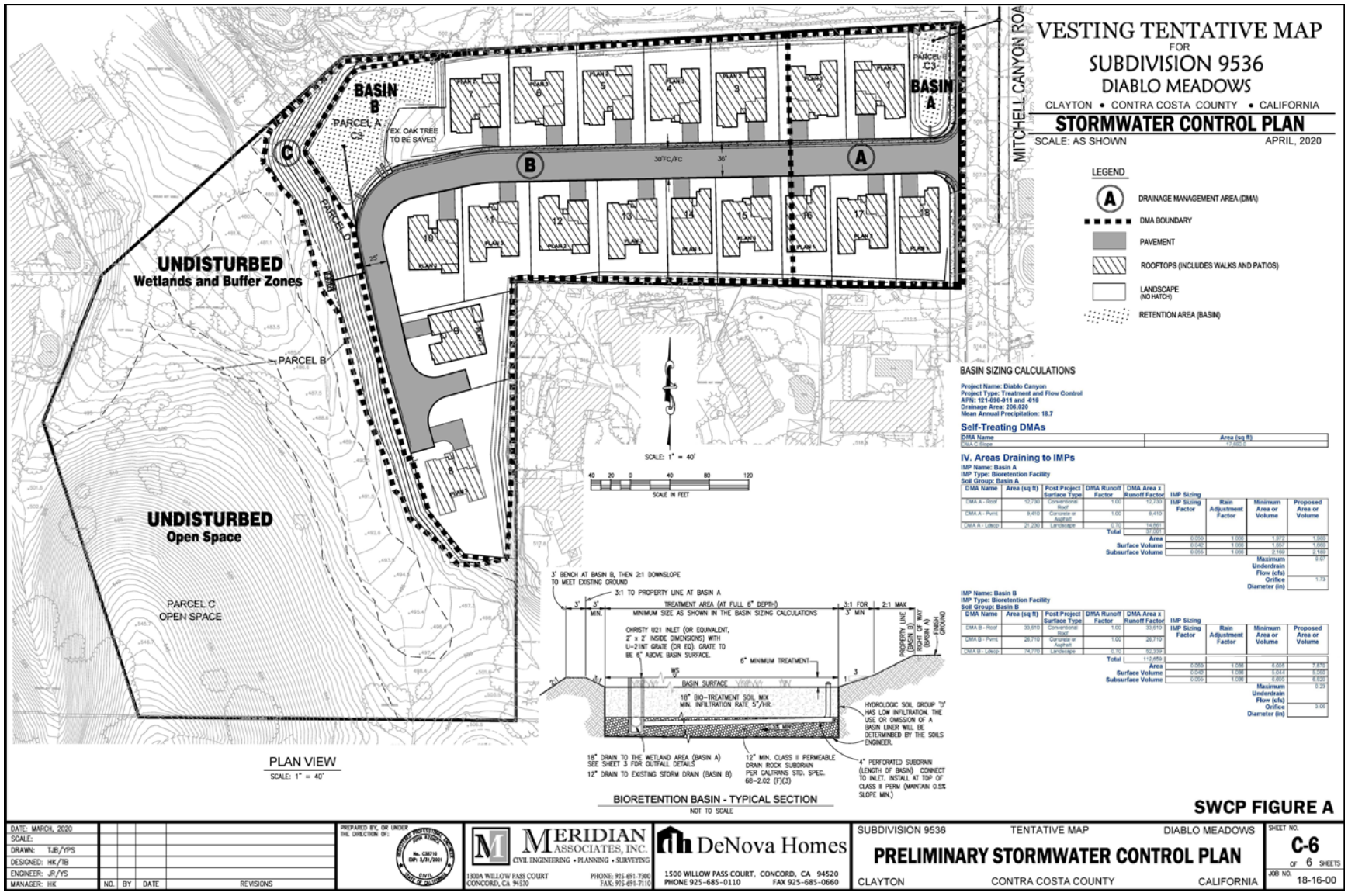
Based on the above, the proposed project would comply with the requirements of the SWRCB and the RWQCB, and would meet or exceed C.3 Standards. Therefore, during operation, the project would comply with all relevant water quality standards and waste discharge requirements, and would not degrade water quality.

Conclusion

Based on the Preliminary SWCP prepared for the proposed project, the project would comply with all applicable regulations during operation, does not involve uses associated with the generation or discharge of polluted water, and would be designed to adequately treat stormwater runoff from the site prior to discharge. Therefore, a ***less-than-significant*** impact would occur

.

Figure 12
Stormwater Control Plan



b. Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?.....Less-Than-Significant Impact

e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? .....Less-Than-Significant Impact

Discussion (b. and e.)

The Contra Costa Water District (CCWD) provides domestic water service to Clayton. The major source of CCWD water is the Sacramento River Contra Costa Water District Canal, not pumped groundwater. The construction of 18 new residential buildings and associated improvements would result in a net increase in impervious surfaces; however, the surface area would not be large enough to significantly affect groundwater recharge. Additionally, approximately 50 percent of the project site would remain in open space and the bio-retention areas within the development area would allow for stormwater to infiltrate into the surrounding soil, thereby allowing the continued contribution to groundwater recharge at the site.

As such, the proposed project would not substantially deplete groundwater supplies or recharge at the site such that the project may impede sustainable groundwater management of the basin and would not conflict with an applicable groundwater management plan or water quality control plan. Thus, a ***less-than-significant*** impact would occur.

ci. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site? .....Less-Than-Significant Impact

cii. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite? .....Less-Than-Significant Impact

ciii. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would

create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?.....Less-Than-Significant Impact

Discussion (ci., cii., and ciii.)

As discussed above, runoff from the impervious areas of the site would be collected and conveyed to the proposed bio-retention basins. Per the Preliminary SWCP, the bio-retention facilities would be designed to exceed the minimum volume needed to treat and control runoff from all proposed impervious surfaces. Therefore, despite the proposed project's increase in impermeable surfaces, the proposed project would not result in an increase in stormwater runoff leaving the site as compared to the runoff conditions that currently occur at the site. Furthermore, runoff entering the bio-retention basins would be able to partially infiltrate the soil in a similar manner to what currently occurs on the project site. Excess runoff not captured by the bio-retention area would be discharged to either the City's existing stormwater system or the on-site open space area through the stormwater outfall.

In order to ensure that the proposed project's stormwater treatment facilities remain adequate, long-term maintenance would be required. Routine maintenance of the facilities is necessary to ensure that infiltration of water is unobstructed, erosion is prevented, and soils are held together by biologically active plant roots. Proper operation and maintenance of the stormwater management facilities would be the sole responsibility of the property owner. In accordance with Clayton Municipal Code Section 13.12.050, implementation of an approved SWCP and submittal of an approved Stormwater Control Operation and Maintenance Plan by the applicant shall be a condition precedent to a final building inspection or the issuance of a certificate of occupancy. All inspections and remedial actions would be logged in a Stormwater BMP Inspection and Maintenance Log.

Based on the above, the proposed project would not substantially alter the existing drainage pattern of the site or area in a manner which would result in erosion, siltation, or flooding on- or off-site, create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or provide substantial additional sources of polluted runoff. Consequently, the proposed project would result in a ***less-than-significant*** impact.

civ. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would create or contribute runoff water which would Impede or redirect flood flows?.....Less-Than-Significant Impact

Discussion (civ.)

Based on the FEMA Flood Insurance Rate Map (FIRM) # 06013C0312F, dated June 16, 2009, the project site is within Zone X, which is described by FEMA as an area determined to be outside the 0.2 percent annual chance floodplain. In addition, dams or levees are not

located upstream of the proposed project site; thus, flooding due to dam or levee failure would not occur. Because the project site is not within a 100-year floodplain, the proposed project would not place housing or structures within a 100-year floodplain or expose people or structures to risks involving flooding. Therefore, impacts would be ***less-than-significant***.

d. If in flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation? ..... No Impact

Discussion (d.)

A seiche is defined as a wave generated by rapid displacement of water within a reservoir or lake, due to an earthquake that triggers land movement within the water body or land sliding into or beneath the water body. The project site is not located near a water body that is susceptible to seiche hazard. Furthermore, due to the distance from the project site to the nearest coastline the project site would not be subject to tsunami hazards. Therefore, the proposed project would not expose people or structures to a significant risk of loss, injury, or death involving seiche, tsunami, or mudflow, and ***no impact*** would occur.

11. LAND USE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Physically divide an established community?	□	□	□	X
b.	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	□	□	X	□

a. Would the project physically divide an established community? ..... No Impact

Discussion (a.)

The proposed project site is currently undeveloped and is absent of any housing or habitable structures. One shed and a water well are located within the northwestern portion of the development area. Currently, existing land uses in the project vicinity include single-family residences to the north, west, and east, across Mitchell Canyon Road, and the CEMEX quarry plant just beyond the vacant land that borders the project site to the south. The proposed residences would be compatible with the existing residential development in the project area. Given that the proposed project would involve construction on a currently undeveloped site, and would not involve any features that would divide an established community, the proposed project would not physically divide an established community and ***no impact*** would occur.

b. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?..... Less-Than-Significant Impact

Discussion (b.)

The proposed project includes a request to Rezone the site from R-15 to PD. The 8.68-acre project site has been anticipated for 25 medium-density residential units per the General Plan land use designation for the site.[19] However, due to the steep topography and sensitive environmental features within the western portion of the project site, residential development would only be feasible on approximately 4.62 acres of the project site. In order to preserve the natural open space features, as well as to meet the current General Plan density requirements, the requested Rezone would reduce the minimum number of allowable units on the entire project site to 18 single-family residences. In addition, the proposed project would not conflict with any City policies and regulations adopted for the purpose of avoiding or mitigating an environmental effect. For example, the proposed project would comply with the City of Clayton Noise Element, as demonstrated in Section 13 of the IS/MND. Additionally, as discussed in Section 4, Biological Resources, of this IS/MND, the proposed project would, with mitigation included, comply with Chapter

[19] City of Clayton. *City of Clay General Plan Section II: Land Use Element* [pg. 18]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.

15.70, Tree Protection, of the City's Municipal Code. As such, the project would not conflict with any applicable land use plans, policies, or regulations adopted for the purpose of avoiding or mitigating an environmental effect, and a ***less-than-significant*** impact would occur.

12. MINERAL RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	□	□	□	X
b.	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	□	□	□	X

a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? ..... No Impact

b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? ..... No Impact

Discussion (a. and b.)

According to the Contra Costa County General Plan, the nearest mineral resource or mineral resource recovery site within the City of Clayton is the CEMEX quarry plant, located less than 0.3-mile south of the project site. Although the CEMEX quarry plant is located in close proximity to the project site, the project site has been previously designated for residential uses by the City of Clayton and is separated from the CEMEX quarry plant by existing residential uses. The project site is not known to contain mineral resources and is not designated as a mineral resource recovery site. As such, the project would not interfere with existing operations or access to such deposits. Therefore, the proposed project would have ***no impact*** to mineral resources.

13. NOISE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project result in:					
a.	Exposure of persons to or generation of noise levels in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies?	□	□	X	□
b.	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	□	□	X	□
c.	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	□	□	X	□
d.	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	□	X	□	□
e.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	□	□	X	□
f.	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	□	□	X	□

a. Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies? ..... Less-Than-Significant Impact

c. Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? .....Less-Than-Significant Impact

Discussion (a. and c.)

As discussed in the Transportation section of this IS/MND, operation of the project would result in a minor increase in traffic to the local roadway network, which would result in a slight increase in the ambient noise environment. The City's noise standards for outdoor and indoor spaces are set forth in Policy 2a of the Clayton General Plan, as follows: 45 Ldn for indoor noise level uses, and 60 Ldn for outdoor noise level. The day/night average level (L_{dn}) is based upon the average noise level over a 24-hour day, with a +10 decibel (dB) weighting applied to noise occurring during nighttime (10:00 PM. to 7:00 AM) hours. A total of 32 new peak hour vehicle trips on local roadways resulting from the project would not cause a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project. Furthermore, noise level increases would not be perceptible until they reach 3 dB or above, as compared to ambient noise levels, and the relatively minor increase in traffic volumes attributable to project-related vehicles would not be sufficient to result in a 3 dB increase in noise.

Therefore, the proposed project would not result in exposure of persons to or generation of noise levels in excess of standards established in the local General Plan, nor would the project result in a permanent increase in ambient noise levels in the project vicinity, and impacts would be considered ***less-than-significant***.

b. Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? .....Less-Than-Significant Impact

Discussion (b.)

Groundborne vibrations would be generated during construction of the proposed project. The development area of the site, where construction would take place, is bordered by residential land uses to the north, east, and west. For structural damage, the California Department of Transportation (Caltrans) uses a vibration limit of 0.5 inches/second, peak particle velocity (in/sec, PPV), for buildings structurally sound and designed to modern engineering standards; 0.2 in/sec PPV for buildings that are found to be structurally sound but where structural damage is a major concern; and a conservative limit of 0.08 in/sec PPV for ancient buildings or buildings that are documented to be structurally weakened. All surrounding structures are assumed to be structurally sound, but damage would be a concern; thus, the 0.2 in/sec PPV will be used as a threshold of significance for structural damage. The threshold of 0.1 in/sec PPV is also used by Caltrans as the threshold for human annoyance caused by vibration. Therefore, activities creating vibrations exceeding 0.1 in/sec PPV would impact sensitive receptors in nearby residences.[20] Table 6 presents typical vibration levels that could be expected from construction equipment at a distance of 25 feet.

Project construction activities, such as drilling, the use of jackhammers, and other high-power or vibratory tools, and rolling stock equipment (tracked vehicles, compactors, etc.), may generate groundborne vibration in the immediate vicinity. As shown in the table, jackhammers typically generate vibration levels of 0.035 in/sec PPV, and drilling typically generates vibration levels of 0.09 in/sec PPV at a distance of 25 feet. Vibration levels would vary depending on soil conditions, construction methods, and equipment used. The use of vibratory rollers may be required for construction of the proposed internal roadway; however, use of the vibratory roller would occur well over 25 feet from nearby existing residences.

Table 6
Vibration Source Levels for Construction Equipment

Equipment	PPV at 25 ft (in/sec)
Vibratory Roller	0.210
Large Bulldozer	0.089
Caisson drilling	0.089
Loaded trucks	0.076
Jackhammer	0.035
Small bulldozer	0.003

Source: Caltrans, Transportation and Construction Vibration: Guidance Manual. September 2013.

[20] Caltrans. *Transportation and Construction Vibration Guidance Manual*. September 2013.

Therefore, the maximum PPV that could occur during construction of the proposed project would be 0.1 in/sec PPV or less, which is below the 0.2 in/sec PPV significance threshold utilized for this analysis. The nearest vibration-sensitive receptors would be the existing surrounding residential uses. Although vibration generated by construction activities associated with the proposed project could be perceptible at nearby residences, the construction-generated vibrations would not be expected to result in structural damage to the residences associated with the proposed project.

Furthermore, construction is temporary and construction equipment would operate intermittently throughout the course of a day. Construction activities would be restricted to daytime hours per the City of Clayton Municipal Code Section 15.01.101 and would only occur over portions of the improvement area at a time.

Therefore, the project would not involve the exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels, resulting in a ***less-than-significant*** impact.

d. Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? ..... Less-Than-Significant With Mitigation

Discussion (d.)

Construction of the project would result in temporarily increased noise levels from grading and construction activities on the project site. Per Chapter 15 of the City's Municipal Code, construction activities would only be allowed during the permitted hours of 7:00 AM and 5:00 PM Monday through Friday. Any such work beyond said hours and days would be strictly prohibited unless previously authorized in writing by the City Engineer or by project conditions of approval. Noise associated with construction activities would include mechanical equipment such as earthmovers, dump trucks, and similar equipment which would be used to grade the site. After grading is complete, construction noise would include delivery of construction materials, construction of foundations, framing, roofing, and similar operations that would temporarily generate noise. Based on the Federal Highway Administration's Construction Noise Handbook, activities involved in typical construction would generate maximum noise levels up to 90 dB at a distance of 50 feet.[21] The nearest sensitive receptors to the construction noise would be the residences surrounding the project site. Construction activity would likely only occur over portions of the improvement area at a time. Because noise levels dissipate with distance from the source, noise levels received by the surrounding sensitive receptors would fluctuate depending on the distance of the noise source on the project site from the fixed location of the receptor. Although construction activities would only occur for a limited duration, project construction activities could generate noise levels that would result in temporary increases in ambient noise levels in the project vicinity. Therefore, the proposed project's impact would be considered ***potentially significant***.

[21] Federal Highway Administration. *Highway Traffic Noise: Construction Noise Handbook*. Updated 11/30/2015.

Mitigation Measure(s)

Implementation of the following mitigation measure would ensure that the above potential impact is reduced to a *less-than-significant* level.

Mitigation Measure 19. *During grading and construction, the project contractor shall ensure that the following measures are implemented:*

- *Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;*
- *The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and*
- *All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.*

e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? ..... Less-Than-Significant Impact

f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? ..... Less-Than-Significant Impact

Discussion (e. and f.)

The project site is not located near an existing airport and is not within an area covered by an existing airport land use plan. The nearest airport is Buchanan Airport, which is over eight miles away in unincorporated Contra Costa County, northwest of the City of Concord. Aircraft-related noise, if audible at the project site, would be minimal. Therefore, the proposed project would not expose people residing or working in the project area to excessive noise levels associated with air traffic and a ***less-than-significant*** impact would occur.

14. POPULATION AND HOUSING.

ISSUES		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)?	□	□	X	□
b.	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	□	□	□	X

a. Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)? .....Less-Than-Significant Impact

Discussion (a.)

The proposed project would include the development of 18 single-family homes and three ADU's, and, thus, would induce population growth. Using the Department of Finance average persons per household value for the City of Clayton of 2.72, the proposed project's addition of 18 residential units would result in approximately 58 new residents.[22] In comparison, buildout at the current zoning designation would result in a minimum of 25 residential units, which would permit approximately 68 new residents at the project site. The proposed project would result in ten fewer residents than was previously planned for the site. Because the site has been previously anticipated for residential development, no impacts related to unplanned growth would occur.

In addition, the Department of Finance estimates the 2019 population of Clayton, based on the 2010 Census, to be approximately 10,897.[23] The increase in population of 58 new residents would constitute a 0.53 percent increase in the City's population. A 0.53 percent increase in population would not be considered substantial growth. It should be noted that population growth itself does not constitute an environmental impact; rather, increased demands on the physical environment resulting from increases in population are considered environmental impacts. For example, increased demands on City services could require system upgrades that could have indirect environmental impacts. Physical environmental effects associated with development of the proposed project are evaluated throughout this IS/MND. For example, as discussed in Section 19, Utilities and Service Systems, of this IS/MND, adequate utility infrastructure would be available to support the proposed project. Consequently, a ***less-than-significant*** impact would occur in regard to the project inducing substantial unplanned population growth.

[22] California Department of Finance. *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2011-2019, with 2010 Benchmark.* Available at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed June 2020.

[23] *Ibid.*

b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? ..... No Impact

Discussion (b.)

The project site is currently undeveloped and absent of housing or other habitable structures. As such, implementation of the proposed project would not displace substantial numbers of housing or people, necessitating the construction of replacement housing elsewhere, and ***no impact*** would occur.

15. PUBLIC SERVICES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:					
a.	Fire protection?	□	□	X	□
b.	Police protection?	□	□	X	□
c.	Schools?	□	□	X	□
d.	Parks?	□	□	X	□
e.	Other public facilities?	□	□	X	□

a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection? .....Less-Than-Significant Impact

b. Police protection? .....Less-Than-Significant Impact

Discussion (a. and b.)

The CCCFPD provides fire prevention, suppression, and emergency medical response for advanced and basic life support to nine cities, including Clayton, and much of the unincorporated territory in the central and western portions of Contra Costa County. The nearest fire station is located at 6500 Center Street, approximately 1.3 miles northeast of the project site by way of Mitchell Canyon Road. Police protection services would be provided for the project by the City of Clayton Police Department. The Police Department is located at 6000 Heritage Trail, which is approximately one mile north from the proposed project site.

The threshold for the impact, as identified in Appendix G of the CEQA Guidelines, is related to whether the project would result in substantial adverse physical impacts associated with the provision of new or physically altered fire or police facilities, the construction of which could cause significant environmental impacts in order to maintain acceptable service ratios or performance objectives. In the court case *City of Hayward v. Board of Trustees of the California State University*, the First District Court of Appeal affirmed that the focus of CEQA analysis should be limited to physical environmental impacts related to a project.[24] The court held that, "The need for additional fire protection services is not an *environmental* impact that CEQA requires a Project Proponent to mitigate."

[24] First District Court of Appeal. *City of Hayward v. Board of Trustees of the California State University*. (November 30, 2015) 242 Cal.App.4th 833.

Given the relatively modest amount of development included in the proposed project (18 single-family residential units and three ADUs), the project would not substantially increase demand for fire and police protection services such that construction of a new facility or expansion of an existing facility would be required. Furthermore, the entitlements being requested would result in a slightly reduced development potential for the project site. Moreover, the City of Clayton Municipal Code Chapter 3.18 establishes development fees to off-set any potential impacts on fire services from new developments. The developer is required to pay the fire protection fee prior to the issuance of a building permit for each unit.

Because the project would not necessitate new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire or police protection, a ***less-than-significant*** impact would result.

c. Schools?..... Less-Than-Significant Impact

Discussion (c.)

The City of Clayton is located within the Mt. Diablo Unified School District (MDUSD). Mt. Diablo Elementary and Diablo View Middle Schools serve the City of Clayton.

Because the proposed project would involve the construction and operation of 18 residential units, the project could add students to the MDUSD. However, the construction of 18 single-family residential units and three ADUs would not create a significant number of new K-12 students. Furthermore, the Leroy F. Greene Act requires the payment of impact fees to avoid potential impacts to school facilities. According to the Leroy F. Greene Act, payment of the necessary school impact fees for the project would be considered full and satisfactory CEQA mitigation. The Act prohibits local agencies from using the inadequacy of school facilities as a basis for denying or conditioning approvals of any "[…] legislative or adjudicative act […] involving […] the planning, use, or development of real property" (Government Code 65996[b]). Because the project applicant would be required to pay school impact fees to the MDUSD, the proposed project would have a ***less-than-significant*** impact on schools in the area.

d. Parks?.....Less-Than-Significant Impact

Discussion (d.)

The proposed project would include construction and operation of 18 residential units, and, thus, would result in a relatively modest increase in demand for parks and recreational facilities. The project site is located adjacent to several nearby City parks, including the Clayton Community Park, which would likely be used by future project residents. In addition, Mount Diablo State Park is located to the south of the site. Section 16.12 of the City of Clayton Municipal Code requires all new subdivisions to dedicate land, pay a fee in-lieu thereof, or both for park or recreational purposes. For projects with 50 parcels or less, such as the proposed project, the subdivider must pay a fee equal to the land value of the portion of the local park required to serve the needs of the project residents. Payment of in-lieu fees would help to fund recreational facilities within the City. Therefore, the proposed project would result in a ***less-than-significant*** impact to park facilities.

e. Other public facilities? .....Less-Than-Significant Impact

Discussion (e.)

The proposed project would increase demands for other general governmental services, including, but not limited to, libraries and general City maintenance services. However, given the limited amount of development proposed (18 single-family units and three ADUs), such increased demands would not be substantial. With payment of the required development impact fees by the project applicant, the proposed project would result in a ***less-than-significant*** impact in regard to such public facilities.

16. RECREATION.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	□	□	X	□
b.	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	□	□	X	□

a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? .....Less-Than-Significant Impact

b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? .....Less-Than-Significant Impact

Discussion (a. and b.)

The project site is located adjacent to several nearby City parks, including the Clayton Community Park, which would likely be used by future project residents. In addition, Mount Diablo State Park is located to the south of the site. As discussed in Section 15, Public Services, of this IS/MND, the proposed project would be subject to the payment of an in-lieu fee in accordance with the City of Clayton Municipal Code Section 16.12. The payment of fees would be used to upgrade and maintain existing facilities, as well as provide for future facilities. Furthermore, the proposed project would only include 18 residential lots. The limited number of anticipated residents at the site would not result in increased use of recreational facilities to such a degree that significant deterioration of existing facilities would occur or construction of new facilities would be required. Therefore, given that the proposed project would be subject to the payment of the City's in-lieu fee, the project would not increase the use of existing parks or recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated and the project would not include or require the construction or expansion of recreational facilities. Thus, a ***less-than-significant*** impact would occur.

17. TRANSPORTATION.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	□	□	X	□
b.	Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	□	□	X	□
c.	Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	□	□	□	X
d.	Result in inadequate emergency access?	□	□	X	□
e.	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	

a. Would the project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? .....Less-Than-Significant Impact

b. Would the project Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways? .....Less-Than-Significant Impact

Discussion (a.)

Primary access to the proposed project site would be provided by a new private roadway that would extend southwestward through the site from Mitchell Canyon Road.

The Institute of Traffic Engineer's (ITE) *Trip Generation Handbook* was used to estimate weekday AM, PM, and daily trip generation forecasts for the proposed project.[25] As shown in Table 7, implementation of the proposed project would be expected result in 193 new daily vehicle trips, with approximately 16 new AM and 20 new PM peak hour vehicle trips.

[25] Institute of Transportation Engineers. *Trip Generation Handbook, 9th Edition*. September 2012.

Table 7 Weekday Project Trip Generation Rates and Estimates											
			Daily	AM Peak Hour				PM Peak Hour			
Land Use	Units	Rate	Trips	Rate	In	Out	Total	Rate	In	Out	Total
Single Family Residential	18	9.52	171	0.75	3	10	14	1.00	11	7	18
ADUs[26]	3	7.32	22	0.46	1	1	2	0.56	1	1	2
Project Total			**193**	**N/A**	**4**	**11**	**16**	**N/A**	**12**	**8**	**20**
Note: AM and PM Peak Hour total trips may not match combined 'In' and 'Out' trips due to rounding. *Source: Institute of Transportation Engineers, 2012.*											

According to the Contra Costa Transportation Authority (CCTA) Congestion Management Plan (CMP), any land development application generating less than 100 peak hour trips is not required to prepare a study of its traffic impacts on the CMP network.[27] Because the proposed project would generate substantially less than 100 peak hour trips, preparation of a traffic study is not required, and the project would not be considered to conflict with the CCTA CMP.

The project area is currently provided transit service by the Central Contra Costa Transit Authority. The nearest bus stop relative to the project site is located at the Clayton Road/Mitchell Canyon Road intersection, approximately 0.5-mile north of the site. The construction of 18 single-family residences and three ADUs would not result in the need for expanded bus service in Clayton. The project does not include changes to existing bicycle infrastructure, or changes that would conflict with the use of bicycle facilities as an alternative means of transportation. With regard to pedestrian facilities, the project would include the construction of a sidewalk along the northern boundary of the proposed internal street within the project site, extending along the project frontage at Mitchell Canyon Road. Thus, the project would not conflict with transit, roadway, bicycle, or pedestrian facilities.

The project applicant would be required to pay off-site arterial street improvement impact fees to the City to offset congestion issues on local arterial roadways. Therefore, the proposed project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities and a ***less-than-significant*** impact would occur.

c. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? ..... No Impact

Discussion (b.)

Section 15064.3 of the CEQA Guidelines provides specific considerations for evaluating a project's transportation impacts, including impacts based on VMT beginning July 1, 2020. Per Section 15064.3, analysis of vehicle miles traveled (VMT) attributable to a project is the most appropriate measure of transportation impacts. A qualitative discussion of impacts

[26] Placer County. *Brady Vineyard Subdivision Project Draft EIR.* November 2019.

[27] Contra Costa Transportation Authority. *2019 Update of the Contra Costa Congestion Management Program* [page 72]. Adopted December 18, 2019.

based on VMT has been provided below in compliance with the most recent CEQA Guidelines.

As mentioned previously, single-family residential units generate approximately 9.52 vehicle trips per unit per day. Buildout of the project site at the current zoning designation would produce a minimum of 25 units and would result in approximately 238 average daily trips (ADT) from the project site. In comparison, the proposed project includes a request to Rezone the site, which would allow for a reduction in the minimum number of single-family residential units from 25 to 18. Buildout of 18 single-family residential units and three ADUs would generate approximately 193 ADT. Thus, the proposed project would be anticipated to produce 45 fewer daily vehicle trips than what would occur with buildout of the site as was originally planned by the City. Because fewer vehicle trips would be made from the site, VMT for the entire site would be reduced, and project-related VMT would be less than what has been anticipated for the site. Because the proposed project would produce less VMT than what was anticipated for the site in the City's General Plan, the proposed project would not result in any new or more severe impacts relate to citywide VMT.

Per Section 15064.3(3), a lead agency may also analyze a project's VMT qualitatively based on the availability of transit, proximity to destinations, etc. While changes to driving conditions that increase intersection delay are an important consideration for traffic operations and management, the method of analysis does not fully describe environmental effects associated with fuel consumption, emissions, and public health. Section 15064.3(3) changes the focus of transportation impact analysis in CEQA from measuring impact to drivers to measuring the impact of driving. For example, development of the proposed project would include pedestrian infrastructure within the project site, such as new sidewalks along the northern boundary of the proposed internal road and the project frontage of Michell Canyon Road. The proposed sidewalks could be connected to expanded sidewalk networks along Mitchell Canyon Road in the future, thus increasing connectivity to surrounding neighborhoods and public transit connections approximately 0.5-mile north of the site.

As mentioned previously, the project site is located in close proximity to alternative forms of transportation, including bus routes. The project area is currently provided transit service by the Central Contra Costa Transit Authority. The nearest bus stop relative to the project site is located at the Clayton Road/Mitchell Canyon Road intersection, approximately 0.5-mile north of the site. Transit would provide access to several grocery stores, restaurants, banks, and schools within close proximity to the project site. The site's access to public transit and proximity to such uses would reduce VMT and, consequently, fuel consumption associated with the proposed project, thereby providing for increased pedestrian connectivity with the surrounding area and resulting in reduced vehicle use.

Based on the above, the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b), and a ***less-than-significant*** impact would occur.

d. Would the project result in inadequate emergency access? .....Less-Than-Significant Impact

e. Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? .....Less-Than-Significant Impact

Discussion (c. and d.)

The proposed project does not include changes to existing roadways or the introduction of any design features that would be considered hazardous. The proposed project would provide an access point at Mitchell Canyon Road, which would provide sufficient emergency access to the site and would be designed in compliance with CCCFPD. As such, the project would not substantially increase hazards due to design features or incompatible uses, and emergency access to the site would be adequate. Therefore, the project would result in a ***less-than-significant*** impact.

18. TRIBAL CULTURAL RESOUCES

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:					
a.	Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k).	□	□	X	□
b.	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	□	□	X	□

a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)? ..... Less-Than-Significant Impact

b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe? ..... Less-Than-Significant Impact

Discussion (a. and b.)

As discussed in Section 5, Cultural Resources, of this IS/MND, the project site does not contain any existing permanent structures or any other known resources listed or eligible for listing in the California Register of Historical Resources, or in a local register of official resources as defined in Public Resources Code Section 5020.1(k), and does not contain known resources that could be considered historic pursuant to the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. Tribal cultural resources are generally defined by Public Resources Code 21074 as sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe. In compliance with Assembly Bill 52 consultation requirements, the City of Clayton sent notification letters to those tribes who had previously requested notification of projects in the City. Responses from such tribes have not been received to date. In the absence of information supplied by tribes, the City relied on other sources of information to determine

whether the project could cause a substantial adverse change in the significance of a tribal cultural resource.

A Sacred Lands File search, performed by the NAHC for the immediate project area, failed to indicate the presence of Native American cultural resources in the project area. Additionally, a search of the CHRIS was completed at the NWIC. As discussed in Section 5, Cultural Resources, of this IS/MND, the CHRIS search did not identify any cultural resources on the site. Given the negative results of the NAHC Sacred Lands File search, and the CHRIS search, as well as the City's compliance with Assembly Bill 52, tribal cultural resources are not expected to occur within the site. Although the project site is located in proximity to a water source, which were often focus points for Native American activity in the region, resource procurement sites for food, raw materials, and/or prominent topographic features that would indicate historical Native American activity have not been recorded within the project site or in the project vicinity.[28] Nevertheless, the possibility exists that development of the proposed project could result in a substantial adverse change in the significance of a tribal cultural resource if previously unknown tribal cultural resources are uncovered during grading or other ground-disturbing activities. However, Mitigation Measures 14 and 15 require that the appropriate actions be taken should any tribal cultural resources, human remains, or bone of unknown origin be found within the project site during construction activities. With the implementation of Mitigation Measures 14 and 15, the proposed project would not result in a substantial adverse change in the significance of a tribal cultural resource, and a ***less-than-significant*** impact would occur.

[28] BASIN Research Associates, 2019.

19. UTILITIES AND SERVICE SYSTEMS.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	□	□	X	□
b.	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	□	□	X	□
c.	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	□	□	X	□
d.	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	□	□	X	□
e.	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	□	□	X	□

a. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?.....Less-Than-Significant Impact

b. Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?.....Less-Than-Significant Impact

c. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?.....Less-Than-Significant Impact

Discussion (a., b., and c.)

Electricity, natural gas, telecommunications, water, and sanitary sewer services would be provided by way of new connections to existing infrastructure in the immediate project area. Brief discussions of water, sewer service, stormwater drainage, electrical, natural gas, and telecommunications that would serve the proposed project are included below.

Water

Potable water service for the project is required and would be made available by CCWD upon completion of financial arrangements and installation of all necessary water facilities to meet the requirements of residential use and fire protection, in accordance with current CCWD and CCCFPD standards. The project would include the connection of an on-site eight-inch water line to an existing water line within Mitchell Canyon Road.

According to the CCWD's 2015 Urban Water Management Plan (UWMP), the CCWD does not anticipated any supply deficits in normal years or single-dry years.[29] In future years, multiple dry-year conditions may result in supply shortfalls of up to approximately 30,000 acre-feet per year (af/yr), which equates to approximately 15 percent of the water demand. The CCWD's water supply reliability goal is to meet 100 percent of demand in normal years and a minimum of 85 percent of demand during a drought. Any potential supply shortfalls experienced during dry year conditions would be met through combination of a short-term conservation program or short-term water purchases. CCWD's currently available and planned supplies would be sufficient to meet the District's goal and estimated water demands during average, single-dry, and multiple-dry year conditions during the next 25 years. Given that the CCWD UWMP takes into account future buildout of the service area, and the proposed project's residential density is generally consistent with what has been anticipated for the site, the increase in water demand associated with the proposed project has generally been anticipated in the UWMP.

Given that the project would develop fewer units than what could be theoretically developed for the site under the current General Plan and zoning designations, increases in demand for water supplies associated with buildout of the site would be within the envelope of what has been previously anticipated by the City. In addition, the project design would be required to adhere to State Building Code standards for water conservation, such as low-flow plumbing fixtures, as well as the City's water-conserving guidelines for landscaping, as set forth in Chapter 17.80 of the Municipal Code. Therefore, the proposed project would not require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, and the project would have sufficient water supplies available to serve the project from existing resources.

Sewer Service

The wastewater collection system within the City of Clayton is owned by Clayton and maintained by the City of Concord. Concord has a contract with Central Contra Costa Sanitary District (CCCSD) to treat wastewater. The CCCSD treatment plant currently treats an average of 45 million gallons per day (MGD). The CCCSD treatment plant's permitted physical capacity is 54 MGD. According to the Growth Management Element of the City of Clayton's General Plan, the plant's maximum capacity of 54 MGD is projected to accommodate buildout until the year 2040.[30] Sewer infrastructure to serve the proposed

[29] Contra Costa Water District. *2015 Urban Water Management Plan for the Contra Costa Water District.* June 2016.

[30] City of Clayton. *City of Clayton General Plan Section XI: Growth Management Element* [page 16]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.
Email communication with Russell B. Leavitt. Engineering Assistant III. Central Contra Costa Sanitary District. May 04, 2016.

project would be extended within the on-site roadway from an existing sewer line located in Mitchell Canyon Road. Specifically, an eight-inch sanitary sewer line would be extended from an existing manhole within Mitchell Canyon Road and routed to the proposed lots.

Given the CCCSD treatment plant's current surplus capacity, and the fact that the project would result in a minimal increase in the demand for wastewater treatment capacity, adequate capacity exists to accommodate the slight increase in sewer demand that would be created by the proposed residential development. Therefore, the proposed project would not exceed treatment requirements of the RWQCB, and the CCCSD would be capable of serving the project's projected demand in addition to the CCCSD's existing commitments.

Stormwater Systems

Development of the proposed project would result in an increase in impervious surfaces on the project site, which would alter the existing drainage pattern of the site. Runoff from Lots #1, #2, and #16 through #18 and pavement from the eastern portion of the new internal roadway would drain to the bio-retention Basin A, east of Lot #1. The western portions of the new internal roadway and Lots #3 through #15, nearer to the open space area, would drain to bio-retention Basin B, located to the west of Lot #7 (see Figure 8). Runoff from undeveloped areas of the project site would remain unchanged and self-treating.

While the proposed project would alter the existing drainage pattern of the development area within the site, as discussed in the Hydrology and Water Quality section of this IS/MND, the project would be required to comply with C.3 Standards and include appropriate site design measures, source controls, and hydraulically-sized stormwater treatment measures. As a result, no net increase in stormwater drainage runoff from the site would be expected. In the absence of an increase in storm water drainage leaving the site, the proposed project would not require the construction of new off-site stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects.

Other Utilities

Electricity, natural gas, and telecommunications utilities would be provided by way of connections to existing infrastructure located within the immediate project vicinity. PG&E would provide electricity and natural gas services to the project site. The proposed project would not require major upgrades to, or extension of, existing infrastructure. Thus, impacts to electricity, natural gas, and telecommunications infrastructure would be less than significant.

Conclusion

Based on the above, the project would result in a ***less-than-significant*** impact related to the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects.

d. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? .....Less-Than-Significant Impact

e. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste? .....Less-Than-Significant Impact

Discussion (d. and e.)

Solid waste from the City of Clayton is disposed of at Keller Canyon County landfill. Keller Canyon Landfill covers 2,600 acres of land; 244 acres are permitted for disposal. The site currently handles 2,500 tons of waste per day, although the permit for the site allows up to 3,500 tons of waste per day to be managed at the facility. According to the California Department of Resources Recycling and Recovery (CalRecycle), the Keller Canyon Landfill has a remaining capacity of 63,408,410 cubic yards out of a total permitted capacity of 75,018,280 or 85 percent remaining capacity.[31] As such, adequate capacity exists to accommodate the relatively modest amount of waste that would be generated by the 18 proposed single-family residences.

The City is also required by Assembly Bill 939 to ensure that it achieves and maintains the diversion and recycling mandates of the State. Construction of the project would comply with the construction and demolition debris recycling requirements of Chapter 15.80 of the City's Municipal Code, which requires that a waste management plan be prepared for both demolition and new construction. The waste management plan must address all materials that would not be acceptable for disposal in the sanitary landfill. Therefore, as the project is required to comply with the City's Municipal Code, and sufficient capacity exists at the Keller Canyon Landfill, implementation of the proposed project would result in a ***less-than-significant*** impact related to solid waste services.

[31] California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary Details: Keller Canyon Landfill (07-AA-0032)*. Available at: https://www2.calrecycle.ca.gov/swfacilities/Directory/07-AA-0032. Accessed August 2020.

20. WILDFIRE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:					
a.	Substantially impair an adopted emergency response plan or emergency evacuation plan?	□	□	X	□
b.	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	□	□	X	□
c.	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	□	□	X	□
d.	Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	□	□	X	□

a. Substantially impair an adopted emergency response plan or emergency evacuation plan? .....Less-Than-Significant Impact

b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? .....Less-Than-Significant Impact

c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? .....Less-Than-Significant Impact

d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? .....Less-Than-Significant Impact

Discussion (a., b., c., and d.)

According to the CAL FIRE Fire and Resource Assessment Program, the project site is not located within a state responsibility area or lands classified as a Very High Fire Hazard Severity Zone (VHFHSZ).[32] However, the project site is immediately adjacent to the

[32] California Department of Forestry and Fire Protection. *Contra Costa County, Very High Fire Hazard Severity Zones in LRA*. January 7, 2009.

nearest VHFHSZ along the southern border of the project site. In addition, according to the Diablo Fire Safe Council, the City of Clayton and adjoining communities within a WUI are at significant risk from wildfire. The WUI is defined as an area in which wildlands and communities are sufficiently close to each other to present a credible risk of fire spreading from one to another.[33]

Fire services to the Clayton area are provided by the CCCFPD, with the nearest station to the site located on Center Street, approximately 1.3 miles northeast of the project site. The site is located within the city limits of Clayton, thereby placing the proposed project within the boundaries of the CCCFPD service area. The development of an internal private roadway would provide emergency access to and from the project site. Therefore, the proposed project would be adequately serviced by CCCFPD and would not substantially impair an adopted emergency response plan or emergency evacuation plan, as is previously discussed in Section 9, Hazards and Hazardous Materials, of this IS/MND.

Because the proposed development would be located in proximity to several slopes and open face areas, there are potential risks related to downslope or downstream flooding or landslides on existing and future residents and structures. High levels of stormwater runoff, which may in turn cause slope instability or changes in the site drainage pattern, would threaten the structural stability of the proposed residences or potentially induce landslides. To mitigate the potential impacts, the proposed project would include two on-site bio-retention basins which would capture stormwater runoff generated by new impervious surfaces and would contain enough capacity to treat excess stormwater during extreme weather events. Recommendations included in the Geotechnical Investigation prepared for the project site would effectively mitigate the potential impacts related to downward slopes and flooding, such as the implementation of an engineered retaining system which would include deepened curbs and foundations that are designed to resist lateral earth pressures.

The risk of uncontrolled spread of a wildfire or pollutant concentrations from a wildfire to the project site is further reduced by the proposed project's location near existing development to north, west, and east, which would act as a fire break from potential surrounding wildfires even in the event of strong prevailing winds or extreme weather events. Similarly, development of a portion of the project site from annual grasses, trees, and shrubs to residential land uses may reduce the site's potential fire hazard to surrounding residences. Although the proposed project would include the installation and maintenance of new infrastructure, including roads and utilities lines, the proposed residential units and associated improvements are required to be designed in compliance with all applicable State and local standards and recommendations for new development, such as the CCCFPD's requirements for providing a water supply system for fire protection and providing adequate emergency and fire access. In compliance with the CBC (specifically Section 903.2.1.3, Group A-3), the design of the residences would include automatic fire sprinklers and fire alarm systems. Such features would help to address fire situations within the site, which would reduce the demand for fire protection services. Compliance with the aforementioned statewide and local building standards would ensure that infrastructure improvements would not exacerbate fire risks.

[33] Diablo Fire Safe Council. *Clayton Morgan Territory Wildfire Action Plan: Public Review Draft*. January 25, 2016.

Therefore, although the project site is located in the vicinity of a VHFHSZ, the proposed project would be compliant with local and State standards ensuring adequate fire protection for new development and would be in close proximity to fire services within the City of Clayton. Based on the above, a ***less-than-significant*** impact would occur.

21. MANDATORY FINDINGS OF SIGNIFICANCE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a.	Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	□	□	X	□
b.	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	□	□	X	□
c.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	□	□	X	□

a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? .....Less-Than-Significant Impact

Discussion (a.)

As discussed in Section 4, Biological Resources, of this IS/MND, while a limited potential exists for San Joaquin kit fox, western burrowing owl, golden eagle, white-tailed kite, and birds protected by the MBTA to occur on-site, implementation of Mitigation Measure 1 through Mitigation Measure 6 would ensure that any impacts related to special-status species would be reduced to a less-than-significant level.

In addition, the project site does not contain any known historic or prehistoric resources. Implementation of the proposed project is not anticipated to have the potential to result in impacts related to historic or prehistoric resources. Nevertheless, Mitigation Measure 14 and Mitigation Measure 15 would ensure that in the event that prehistoric resources are discovered within the project site, such resources would be protected in compliance with the requirements of CEQA and other State standards.

Considering the above, the proposed project would not degrade the quality of the environment, substantially reduce or impact the habitat of fish or wildlife species, cause fish or wildlife populations to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory. Therefore, a ***less-than-significant*** impact would occur.

b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? .....Less-Than-Significant Impact

Discussion (b.)

The proposed project, in conjunction with other development within the City of Clayton, could incrementally contribute to cumulative impacts in the area. However, as demonstrated in this IS/MND, all potential environmental impacts that could occur as a result of project implementation would be reduced to a less-than-significant level through compliance with the mitigation measures included in this IS/MND, as well as applicable General Plan policies, Municipal Code standards, and other applicable local and State regulations.

All cumulative impacts related to air quality, noise, and transportation are either less than significant after mitigation or less than significant and do not require mitigation. Given the scope of the project, any incremental effects would not be considerable relative to the effects of all past, current, and probable future projects. In addition, although the project includes a requested Rezone of the property, residential development of the site has been anticipated, and implementation of the project would result in a slightly less intense development than that which was anticipated in the City's planning documents (i.e., 18 residential units versus 25 units). Thus, the proposed project would not result in greater impacts compared to development of the site under the previously approved densities analyzed in the City's General Plan EIR. Therefore, when viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, development of the proposed project would not result in a cumulatively considerable contribution to cumulative impacts, and the project's incremental contribution to cumulative impacts would be ***less than significant***.

c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? .....Less-Than-Significant Impact

Discussion (c.)

As described in this IS/MND, the proposed project would comply with all applicable General Plan policies, Municipal Code standards, other applicable local and State regulations, and mitigation measures included herein. In addition, as discussed in Section 3, Air Quality, Section 7, Geology and Soils, Section 9, Hazards and Hazardous Materials,

and Section 13, Noise, of this IS/MND, the proposed project would not cause substantial effects to human beings, including effects related to exposure to hazardous materials and noise, after mitigation. Therefore, the proposed project would result in a ***less-than-significant*** impact.

STAFF AND SOURCES

Raney:

Cindy Gnos, Senior Vice President
Nick Pappani, Vice President
Angela DaRosa, Assistant Division Manager/Air Quality Specialist
Briette Shea, Associate
Jessica Chuidian-Ingersoll, Associate

City of Clayton:

Matthew Feske, Community Development Director
Christine Gregory, Consulting Planner
Milan J. Sikela, Jr., Assistant Planner
Scott Alman, P.E., City Engineer

The following documents are referenced information sources utilized for this analysis:

1. AdvancedGeo. *Phase 1 Environmental Site Assessment: Clayton Trust Property APNs 121-090-011-2 and 121-090-016-1, Clayton, California, Project No. 20-4996*. February 24, 2020.
2. BASIN Research Associates. *Archaeological Resources Review – Mitchell Canyon Road Development, Clayton, Contra Costa County, California*. August 9, 2019.
3. Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines.* May 2017.
4. California Air Resources Board. *The 2017 Climate Change Scoping Plan Update.* January 20, 2017.
5. California Building Standards Commission. *California Green Building Standards Code.* 2019.
6. California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed July 2020.
7. California Department of Conservation. *California Earthquake Hazards Zone Application.* Available at: https://maps.conservation.ca.gov/cgs/EQZApp/app/. Accessed August 2020.
8. California Department of Finance. *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2011-2019, with 2010 Benchmark.* Available at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed August 2020.
9. California Department of Forestry and Fire Protection. *Contra Costa County, Fire Hazard Severity Zones in LRA.* November 7, 2009.
10. California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary Details: Keller Canyon Landfill (07-AA-0032)*. Available at: https://www2.calrecycle.ca.gov/swfacilities/Directory/07-AA-0032. Accessed August 2020.
11. California Department of Toxic Substances Control. *EnviroStor*. Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed July 2020.
12. California Department of Transportation. *Scenic Highways*. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed July 2020.
13. City of Clayton. *Clayton 2020 General Plan.* As amended July 19, 2016.
14. City of Clayton. *City of Clayton General Plan Section XI: Growth Management Element* [page 16]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.

15. City of Clayton. *City of Clayton General Plan Section II: Land Use Element* [pg. 18]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.
16. City of Clayton. *City of Clayton Municipal Code*. Available at: https://library.municode.com/ca/clayton/codes/municipal_code?nodeId=CICOCLCA. Accessed August 2020.
17. Contra Costa County. *General Plan, Open Space Element, Figure 9-2: Archaeological Sensitivity Map*. [pg. 9-11] January 18, 2005.
18. Contra Costa Transportation Authority. *2019 Update of the Contra Costa Congestion Management Program* [page 72]. Adopted December 18, 2019.
19. Contra Costa Water District. *2015 Urban Water Management Plan for the Contra Costa Water District*. June 2016.
20. Diablo Fire Safe Council. *Clayton Morgan Territory Wildfire Action Plan: Public Review* Draft. January 25, 2016.
21. East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan*. http://www.co.contra-costa.ca.us/depart/cd/water/HCP/. As updated October 2007.
22. East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan [p. 9-17]*. As updated October 2007.
23. Email communication with Russell B. Leavitt. Engineering Assistant III. Central Contra Costa Sanitary District. May 04, 2016.
24. Federal Highway Administration. *Roadway Construction Noise Model User's Guide.* January 2006.
25. Federal Transit Administration. *Transit Noise and Vibration Impact Assessment Guidelines.* May 2006.
26. First District Court of Appeal. *City of Hayward v. Board of Trustees of the California State University*. (November 30 ,2015) 242 Cal.App.4th 833.
27. Institute of Transportation Engineers, *Trip Generation Manual*, 9th Edition. 2012.
28. Moore Biological Consultants, *Application Form and Planning Survey Report, Diablo Meadows Development.* July 2020.
29. Placer County. *Brady Vineyard Subdivision Project Draft EIR.* November 2019.
30. Steven, Ferrone, & Bailey Engineering Company, Inc. *Geotechnical Investigation: Mitchell Canyon Development, Clayton, California SFB Project No. 155-90.* February 28, 2020.
31. Trees, Bugs, Dirt Landscape Consulting and Training. *Arborist Report: Diablo Canyon, Mitchell Canyon Road, Clayton, CA.* April 30th, 2020.

Appendix A
CalEEMod Modeling Results

Diablo Meadows Project

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	3.19	32,400.00	51
Other Asphalt Surfaces	0.74	Acre	0.74	32,234.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	257.69	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Acreage updated per site plan.

Construction Phase - Phase timing provided by applicant.

Grading - total acres graded adjusted per site plan

Demolition -

Vehicle Trips - trip rate adjusted for ITE trip generation rates 9th edition

Woodstoves - Per AQ questionnaire, no fireplaces proposed

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Diablo Meadows Project - Bay Area AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	18.00	260.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	PhaseEndDate	6/23/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	5/4/2022	7/4/2022
tblConstructionPhase	PhaseEndDate	5/28/2021	5/3/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/21/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	7/5/2021
tblConstructionPhase	PhaseEndDate	6/4/2021	5/10/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	7/20/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	7/6/2021
tblConstructionPhase	PhaseStartDate	6/5/2021	5/11/2021
tblConstructionPhase	PhaseStartDate	5/5/2022	6/22/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	5/4/2021
tblFireplaces	NumberGas	4.50	0.00
tblFireplaces	NumberNoFireplace	1.44	18.00
tblFireplaces	NumberWood	7.74	0.00
tblGrading	AcresOfGrading	15.00	3.93
tblLandUse	LotAcreage	5.84	3.19
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3025	1.8089	1.5946	2.8300e-003	0.1558	0.0938	0.2496	0.0796	0.0880	0.1676	0.0000	246.4363	246.4363	0.0564	0.0000	247.8450
2022	0.2594	1.1705	1.2437	2.2100e-003	0.0156	0.0589	0.0745	4.2200e-003	0.0558	0.0600	0.0000	191.7993	191.7993	0.0383	0.0000	192.7570
Maximum	**0.3025**	**1.8089**	**1.5946**	**2.8300e-003**	**0.1558**	**0.0938**	**0.2496**	**0.0796**	**0.0880**	**0.1676**	**0.0000**	**246.4363**	**246.4363**	**0.0564**	**0.0000**	**247.8450**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3025	1.8089	1.5946	2.8300e-003	0.1558	0.0938	0.2496	0.0796	0.0880	0.1676	0.0000	246.4361	246.4361	0.0564	0.0000	247.8447
2022	0.2594	1.1705	1.2437	2.2100e-003	0.0156	0.0589	0.0745	4.2200e-003	0.0558	0.0600	0.0000	191.7991	191.7991	0.0383	0.0000	192.7568
Maximum	**0.3025**	**1.8089**	**1.5946**	**2.8300e-003**	**0.1558**	**0.0938**	**0.2496**	**0.0796**	**0.0880**	**0.1676**	**0.0000**	**246.4361**	**246.4361**	**0.0564**	**0.0000**	**247.8447**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-1-2021**	**7-31-2021**	0.8193	0.8193
2	**8-1-2021**	**10-31-2021**	0.7807	0.7807
3	**11-1-2021**	**1-31-2022**	0.7569	0.7569
4	**2-1-2022**	**4-30-2022**	0.6857	0.6857
5	**5-1-2022**	**7-31-2022**	0.5177	0.5177
		Highest	0.8193	0.8193

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1608	2.2300e-003	0.1759	1.4000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.9224	0.2183	1.1408	4.5200e-003	0.0000	1.2538
Energy	2.8200e-003	0.0241	0.0103	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	44.9406	44.9406	2.4500e-003	9.1000e-004	45.2725
Mobile	0.0390	0.1726	0.4427	1.6500e-003	0.1473	1.3500e-003	0.1486	0.0395	1.2600e-003	0.0408	0.0000	151.2890	151.2890	5.2500e-003	0.0000	151.4203
Waste						0.0000	0.0000		0.0000	0.0000	4.3481	0.0000	4.3481	0.2570	0.0000	10.7722
Water						0.0000	0.0000		0.0000	0.0000	0.3721	1.0442	1.4163	0.0383	9.3000e-004	2.6507
Total	**0.2026**	**0.1989**	**0.6289**	**1.9400e-003**	**0.1473**	**0.0109**	**0.1582**	**0.0395**	**0.0108**	**0.0504**	**5.6426**	**197.4921**	**203.1347**	**0.3075**	**1.8400e-003**	**211.3695**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1467	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Energy	2.6400e-003	0.0226	9.6200e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1763	26.1763	5.0000e-004	4.8000e-004	26.3318
Mobile	0.0382	0.1676	0.4234	1.5600e-003	0.1385	1.2800e-003	0.1398	0.0372	1.1900e-003	0.0384	0.0000	142.9645	142.9645	5.0300e-003	0.0000	143.0902
Waste						0.0000	0.0000		0.0000	0.0000	4.3481	0.0000	4.3481	0.2570	0.0000	10.7722
Water						0.0000	0.0000		0.0000	0.0000	0.2977	0.8959	1.1935	0.0307	7.4000e-004	2.1817
Total	**0.1875**	**0.1917**	**0.5667**	**1.7100e-003**	**0.1385**	**3.8500e-003**	**0.1424**	**0.0372**	**3.7600e-003**	**0.0409**	**4.6457**	**170.2550**	**174.9007**	**0.2934**	**1.2200e-003**	**182.5994**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.46**	**3.62**	**9.88**	**11.86**	**5.95**	**64.78**	**10.01**	**5.94**	**65.31**	**18.72**	**17.67**	**13.79**	**13.90**	**4.60**	**33.70**	**13.61**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	5/3/2021	5	1	
2	Site Preparation	Site Preparation	5/4/2021	5/10/2021	5	5	
3	Grading	Grading	5/11/2021	6/21/2021	5	30	
4	Building Construction	Building Construction	7/6/2021	7/4/2022	5	260	
5	Paving	Paving	6/22/2021	7/5/2021	5	10	
6	Architectural Coating	Architectural Coating	7/20/2021	7/18/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.93

Acres of Paving: 0.74

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,934 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5800e-003	0.0157	0.0108	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.7000	1.7000	4.8000e-004	0.0000	1.7120
Total	**1.5800e-003**	**0.0157**	**0.0108**	**2.0000e-005**	**1.7000e-004**	**7.8000e-004**	**9.5000e-004**	**3.0000e-005**	**7.2000e-004**	**7.5000e-004**	**0.0000**	**1.7000**	**1.7000**	**4.8000e-004**	**0.0000**	**1.7120**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.7000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0757	0.0757	0.0000	0.0000	0.0758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0501
Total	**3.0000e-005**	**2.9000e-004**	**2.3000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1258**	**0.1258**	**0.0000**	**0.0000**	**0.1259**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5800e-003	0.0157	0.0108	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.7000	1.7000	4.8000e-004	0.0000	1.7120
Total	**1.5800e-003**	**0.0157**	**0.0108**	**2.0000e-005**	**1.7000e-004**	**7.8000e-004**	**9.5000e-004**	**3.0000e-005**	**7.2000e-004**	**7.5000e-004**	**0.0000**	**1.7000**	**1.7000**	**4.8000e-004**	**0.0000**	**1.7120**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.7000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0757	0.0757	0.0000	0.0000	0.0758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0501
Total	**3.0000e-005**	**2.9000e-004**	**2.3000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1258**	**0.1258**	**0.0000**	**0.0000**	**0.1259**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3006	0.3006	1.0000e-005	0.0000	0.3008
Total	**1.4000e-004**	**1.0000e-004**	**1.0100e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3006**	**0.3006**	**1.0000e-005**	**0.0000**	**0.3008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3006	0.3006	1.0000e-005	0.0000	0.3008
Total	**1.4000e-004**	**1.0000e-004**	**1.0100e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3006**	**0.3006**	**1.0000e-005**	**0.0000**	**0.3008**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0924	0.0000	0.0924	0.0499	0.0000	0.0499	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.3711	0.2379	4.4000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	39.0806	39.0806	0.0126	0.0000	39.3965
Total	**0.0344**	**0.3711**	**0.2379**	**4.4000e-004**	**0.0924**	**0.0174**	**0.1098**	**0.0499**	**0.0160**	**0.0659**	**0.0000**	**39.0806**	**39.0806**	**0.0126**	**0.0000**	**39.3965**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
Total	**6.9000e-004**	**4.8000e-004**	**5.0500e-003**	**2.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.5030**	**1.5030**	**3.0000e-005**	**0.0000**	**1.5038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0924	0.0000	0.0924	0.0499	0.0000	0.0499	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.3711	0.2379	4.4000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	39.0805	39.0805	0.0126	0.0000	39.3965
Total	**0.0344**	**0.3711**	**0.2379**	**4.4000e-004**	**0.0924**	**0.0174**	**0.1098**	**0.0499**	**0.0160**	**0.0659**	**0.0000**	**39.0805**	**39.0805**	**0.0126**	**0.0000**	**39.3965**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
Total	**6.9000e-004**	**4.8000e-004**	**5.0500e-003**	**2.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.5030**	**1.5030**	**3.0000e-005**	**0.0000**	**1.5038**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1226	1.1244	1.0691	1.7400e-003		0.0618	0.0618		0.0581	0.0581	0.0000	149.4060	149.4060	0.0361	0.0000	150.3072
Total	**0.1226**	**1.1244**	**1.0691**	**1.7400e-003**		**0.0618**	**0.0618**		**0.0581**	**0.0581**	**0.0000**	**149.4060**	**149.4060**	**0.0361**	**0.0000**	**150.3072**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0472	0.0118	1.2000e-004	2.9600e-003	1.0000e-004	3.0600e-003	8.6000e-004	1.0000e-004	9.5000e-004	0.0000	11.7094	11.7094	5.8000e-004	0.0000	11.7238
Worker	3.9600e-003	2.7300e-003	0.0289	1.0000e-004	0.0102	7.0000e-005	0.0103	2.7100e-003	6.0000e-005	2.7700e-003	0.0000	8.6171	8.6171	1.9000e-004	0.0000	8.6219
Total	**5.3900e-003**	**0.0499**	**0.0407**	**2.2000e-004**	**0.0132**	**1.7000e-004**	**0.0133**	**3.5700e-003**	**1.6000e-004**	**3.7200e-003**	**0.0000**	**20.3265**	**20.3265**	**7.7000e-004**	**0.0000**	**20.3457**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1226	1.1244	1.0691	1.7400e-003		0.0618	0.0618		0.0581	0.0581	0.0000	149.4059	149.4059	0.0361	0.0000	150.3070
Total	**0.1226**	**1.1244**	**1.0691**	**1.7400e-003**		**0.0618**	**0.0618**		**0.0581**	**0.0581**	**0.0000**	**149.4059**	**149.4059**	**0.0361**	**0.0000**	**150.3070**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0472	0.0118	1.2000e-004	2.9600e-003	1.0000e-004	3.0600e-003	8.6000e-004	1.0000e-004	9.5000e-004	0.0000	11.7094	11.7094	5.8000e-004	0.0000	11.7238
Worker	3.9600e-003	2.7300e-003	0.0289	1.0000e-004	0.0102	7.0000e-005	0.0103	2.7100e-003	6.0000e-005	2.7700e-003	0.0000	8.6171	8.6171	1.9000e-004	0.0000	8.6219
Total	**5.3900e-003**	**0.0499**	**0.0407**	**2.2000e-004**	**0.0132**	**1.7000e-004**	**0.0133**	**3.5700e-003**	**1.6000e-004**	**3.7200e-003**	**0.0000**	**20.3265**	**20.3265**	**7.7000e-004**	**0.0000**	**20.3457**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1118	1.0228	1.0718	1.7600e-003		0.0530	0.0530		0.0499	0.0499	0.0000	151.7800	151.7800	0.0364	0.0000	152.6891
Total	**0.1118**	**1.0228**	**1.0718**	**1.7600e-003**		**0.0530**	**0.0530**		**0.0499**	**0.0499**	**0.0000**	**151.7800**	**151.7800**	**0.0364**	**0.0000**	**152.6891**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0454	0.0112	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.7743	11.7743	5.6000e-004	0.0000	11.7883
Worker	3.7500e-003	2.4900e-003	0.0270	9.0000e-005	0.0104	7.0000e-005	0.0104	2.7500e-003	6.0000e-005	2.8100e-003	0.0000	8.4299	8.4299	1.8000e-004	0.0000	8.4343
Total	**5.1100e-003**	**0.0478**	**0.0382**	**2.1000e-004**	**0.0134**	**1.6000e-004**	**0.0135**	**3.6200e-003**	**1.5000e-004**	**3.7700e-003**	**0.0000**	**20.2042**	**20.2042**	**7.4000e-004**	**0.0000**	**20.2226**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1118	1.0228	1.0718	1.7600e-003		0.0530	0.0530		0.0499	0.0499	0.0000	151.7799	151.7799	0.0364	0.0000	152.6889
Total	**0.1118**	**1.0228**	**1.0718**	**1.7600e-003**		**0.0530**	**0.0530**		**0.0499**	**0.0499**	**0.0000**	**151.7799**	**151.7799**	**0.0364**	**0.0000**	**152.6889**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0454	0.0112	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.7743	11.7743	5.6000e-004	0.0000	11.7883
Worker	3.7500e-003	2.4900e-003	0.0270	9.0000e-005	0.0104	7.0000e-005	0.0104	2.7500e-003	6.0000e-005	2.8100e-003	0.0000	8.4299	8.4299	1.8000e-004	0.0000	8.4343
Total	**5.1100e-003**	**0.0478**	**0.0382**	**2.1000e-004**	**0.0134**	**1.6000e-004**	**0.0135**	**3.6200e-003**	**1.5000e-004**	**3.7700e-003**	**0.0000**	**20.2042**	**20.2042**	**7.4000e-004**	**0.0000**	**20.2226**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4700e-003	0.0542	0.0613	9.0000e-005		2.8900e-003	2.8900e-003		2.6700e-003	2.6700e-003	0.0000	8.1853	8.1853	2.5700e-003	0.0000	8.2496
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4400e-003**	**0.0542**	**0.0613**	**9.0000e-005**		**2.8900e-003**	**2.8900e-003**		**2.6700e-003**	**2.6700e-003**	**0.0000**	**8.1853**	**8.1853**	**2.5700e-003**	**0.0000**	**8.2496**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.2400e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6680	0.6680	1.0000e-005	0.0000	0.6684
Total	**3.1000e-004**	**2.1000e-004**	**2.2400e-003**	**1.0000e-005**	**7.9000e-004**	**1.0000e-005**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6680**	**0.6680**	**1.0000e-005**	**0.0000**	**0.6684**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4700e-003	0.0542	0.0613	9.0000e-005		2.8900e-003	2.8900e-003		2.6700e-003	2.6700e-003	0.0000	8.1853	8.1853	2.5700e-003	0.0000	8.2496
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4400e-003**	**0.0542**	**0.0613**	**9.0000e-005**		**2.8900e-003**	**2.8900e-003**		**2.6700e-003**	**2.6700e-003**	**0.0000**	**8.1853**	**8.1853**	**2.5700e-003**	**0.0000**	**8.2496**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.2400e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6680	0.6680	1.0000e-005	0.0000	0.6684
Total	**3.1000e-004**	**2.1000e-004**	**2.2400e-003**	**1.0000e-005**	**7.9000e-004**	**1.0000e-005**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6680**	**0.6680**	**1.0000e-005**	**0.0000**	**0.6684**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1075					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0130	0.0909	0.1081	1.8000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	15.1919	15.1919	1.0400e-003	0.0000	15.2179
Total	**0.1205**	**0.0909**	**0.1081**	**1.8000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**15.1919**	**15.1919**	**1.0400e-003**	**0.0000**	**15.2179**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.0000e-004	5.3400e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5898	1.5898	4.0000e-005	0.0000	1.5907
Total	**7.3000e-004**	**5.0000e-004**	**5.3400e-003**	**2.0000e-005**	**1.8800e-003**	**1.0000e-005**	**1.8900e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.5898**	**1.5898**	**4.0000e-005**	**0.0000**	**1.5907**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1075					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0130	0.0909	0.1081	1.8000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	15.1918	15.1918	1.0400e-003	0.0000	15.2179
Total	**0.1205**	**0.0909**	**0.1081**	**1.8000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**15.1918**	**15.1918**	**1.0400e-003**	**0.0000**	**15.2179**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.0000e-004	5.3400e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5898	1.5898	4.0000e-005	0.0000	1.5907
Total	**7.3000e-004**	**5.0000e-004**	**5.3400e-003**	**2.0000e-005**	**1.8800e-003**	**1.0000e-005**	**1.8900e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.5898**	**1.5898**	**4.0000e-005**	**0.0000**	**1.5907**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.0993	0.1279	2.1000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	18.0004	18.0004	1.1700e-003	0.0000	18.0297
Total	**0.1418**	**0.0993**	**0.1279**	**2.1000e-004**		**5.7600e-003**	**5.7600e-003**		**5.7600e-003**	**5.7600e-003**	**0.0000**	**18.0004**	**18.0004**	**1.1700e-003**	**0.0000**	**18.0297**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	5.4000e-004	5.8100e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.1000e-004	0.0000	1.8147	1.8147	4.0000e-005	0.0000	1.8156
Total	**8.1000e-004**	**5.4000e-004**	**5.8100e-003**	**2.0000e-005**	**2.2300e-003**	**1.0000e-005**	**2.2400e-003**	**5.9000e-004**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**1.8147**	**1.8147**	**4.0000e-005**	**0.0000**	**1.8156**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.0993	0.1279	2.1000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	18.0004	18.0004	1.1700e-003	0.0000	18.0297
Total	**0.1418**	**0.0993**	**0.1279**	**2.1000e-004**		**5.7600e-003**	**5.7600e-003**		**5.7600e-003**	**5.7600e-003**	**0.0000**	**18.0004**	**18.0004**	**1.1700e-003**	**0.0000**	**18.0297**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	5.4000e-004	5.8100e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.1000e-004	0.0000	1.8147	1.8147	4.0000e-005	0.0000	1.8156
Total	**8.1000e-004**	**5.4000e-004**	**5.8100e-003**	**2.0000e-005**	**2.2300e-003**	**1.0000e-005**	**2.2400e-003**	**5.9000e-004**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**1.8147**	**1.8147**	**4.0000e-005**	**0.0000**	**1.8156**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0382	0.1676	0.4234	1.5600e-003	0.1385	1.2800e-003	0.1398	0.0372	1.1900e-003	0.0384	0.0000	142.9645	142.9645	5.0300e-003	0.0000	143.0902
Unmitigated	0.0390	0.1726	0.4427	1.6500e-003	0.1473	1.3500e-003	0.1486	0.0395	1.2600e-003	0.0408	0.0000	151.2890	151.2890	5.2500e-003	0.0000	151.4203

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	171.36	171.36	171.36	395,774	372,226
Total	171.36	171.36	171.36	395,774	372,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Single Family Housing	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	17.0222	17.0222	1.9200e-003	4.0000e-004	17.1882
NaturalGas Mitigated	2.6400e-003	0.0226	9.6200e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1763	26.1763	5.0000e-004	4.8000e-004	26.3318
NaturalGas Unmitigated	2.8200e-003	0.0241	0.0103	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9184	27.9184	5.4000e-004	5.1000e-004	28.0843

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	523172	2.8200e-003	0.0241	0.0103	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9184	27.9184	5.4000e-004	5.1000e-004	28.0843
Total		**2.8200e-003**	**0.0241**	**0.0103**	**1.5000e-004**		**1.9500e-003**	**1.9500e-003**		**1.9500e-003**	**1.9500e-003**	**0.0000**	**27.9184**	**27.9184**	**5.4000e-004**	**5.1000e-004**	**28.0843**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	490525	2.6400e-003	0.0226	9.6200e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1763	26.1763	5.0000e-004	4.8000e-004	26.3318
Total		**2.6400e-003**	**0.0226**	**9.6200e-003**	**1.4000e-004**		**1.8300e-003**	**1.8300e-003**		**1.8300e-003**	**1.8300e-003**	**0.0000**	**26.1763**	**26.1763**	**5.0000e-004**	**4.8000e-004**	**26.3318**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	145630	17.0222	1.9200e-003	4.0000e-004	17.1882
Total		**17.0222**	**1.9200e-003**	**4.0000e-004**	**17.1882**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1467	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Unmitigated	0.1608	2.2300e-003	0.1759	1.4000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.9224	0.2183	1.1408	4.5200e-003	0.0000	1.2538

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1286					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.6500e-003	6.9000e-004	0.0422	1.4000e-004		6.8900e-003	6.8900e-003		6.8900e-003	6.8900e-003	0.9224	0.0000	0.9224	4.3100e-003	0.0000	1.0302
Landscaping	4.0300e-003	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Total	**0.1608**	**2.2300e-003**	**0.1759**	**1.5000e-004**		**7.6300e-003**	**7.6300e-003**		**7.6300e-003**	**7.6300e-003**	**0.9224**	**0.2183**	**1.1408**	**4.5200e-003**	**0.0000**	**1.2538**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0300e-003	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Total	**0.1467**	**1.5400e-003**	**0.1337**	**1.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**0.2183**	**0.2183**	**2.1000e-004**	**0.0000**	**0.2236**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.1935	0.0307	7.4000e-004	2.1817
Unmitigated	1.4163	0.0383	9.3000e-004	2.6507

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.17277 / 0.739357	1.4163	0.0383	9.3000e-004	2.6507
Total		**1.4163**	**0.0383**	**9.3000e-004**	**2.6507**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.938218 / 0.739357	1.1935	0.0307	7.4000e-004	2.1817
Total		**1.1935**	**0.0307**	**7.4000e-004**	**2.1817**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.3481	0.2570	0.0000	10.7722
Unmitigated	4.3481	0.2570	0.0000	10.7722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	21.42	4.3481	0.2570	0.0000	10.7722
Total		**4.3481**	**0.2570**	**0.0000**	**10.7722**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	21.42	4.3481	0.2570	0.0000	10.7722
Total		**4.3481**	**0.2570**	**0.0000**	**10.7722**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Diablo Meadows Project

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	3.19	32,400.00	51
Other Asphalt Surfaces	0.74	Acre	0.74	32,234.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	257.69	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Acreage updated per site plan.

Construction Phase - Phase timing provided by applicant.

Grading - total acres graded adjusted per site plan

Demolition -

Vehicle Trips - trip rate adjusted for ITE trip generation rates 9th edition

Woodstoves - Per AQ questionnaire, no fireplaces proposed

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Diablo Meadows Project - Bay Area AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	18.00	260.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	PhaseEndDate	6/23/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	5/4/2022	7/4/2022
tblConstructionPhase	PhaseEndDate	5/28/2021	5/3/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/21/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	7/5/2021
tblConstructionPhase	PhaseEndDate	6/4/2021	5/10/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	7/20/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	7/6/2021
tblConstructionPhase	PhaseStartDate	6/5/2021	5/11/2021
tblConstructionPhase	PhaseStartDate	5/5/2022	6/22/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	5/4/2021
tblFireplaces	NumberGas	4.50	0.00
tblFireplaces	NumberNoFireplace	1.44	18.00
tblFireplaces	NumberWood	7.74	0.00
tblGrading	AcresOfGrading	15.00	3.93
tblLandUse	LotAcreage	5.84	3.19
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0249	40.5309	22.0450	0.0416	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,034.7208	4,034.7208	1.1952	0.0000	4,061.3680
2022	3.8090	17.7502	18.8806	0.0336	0.2446	0.8933	1.1378	0.0659	0.8453	0.9112	0.0000	3,219.1777	3,219.1777	0.6432	0.0000	3,235.2567
Maximum	**4.0249**	**40.5309**	**22.0450**	**0.0416**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,034.7208**	**4,034.7208**	**1.1952**	**0.0000**	**4,061.3680**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0249	40.5309	22.0450	0.0416	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,034.7208	4,034.7208	1.1952	0.0000	4,061.3680
2022	3.8090	17.7502	18.8806	0.0336	0.2446	0.8933	1.1378	0.0659	0.8453	0.9112	0.0000	3,219.1777	3,219.1777	0.6432	0.0000	3,235.2567
Maximum	**4.0249**	**40.5309**	**22.0450**	**0.0416**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,034.7208**	**4,034.7208**	**1.1952**	**0.0000**	**4,061.3680**

Diablo Meadows Project - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869
Energy	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Mobile	0.2464	0.9194	2.5332	9.5700e-003	0.8408	7.4000e-003	0.8482	0.2249	6.9100e-003	0.2318		969.1667	969.1667	0.0320		969.9671
Total	**1.5816**	**1.1340**	**8.0852**	**0.0236**	**0.8408**	**0.6805**	**1.5213**	**0.2249**	**0.6800**	**0.9050**	**96.5632**	**1,140.4698**	**1,237.0330**	**0.4892**	**3.0900e-003**	**1,250.1852**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Energy	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Mobile	0.2418	0.8937	2.4136	9.0500e-003	0.7907	7.0200e-003	0.7978	0.2115	6.5500e-003	0.2181		915.7669	915.7669	0.0306		916.5315
Total	**1.0826**	**1.0346**	**3.9517**	**9.9200e-003**	**0.7907**	**0.0253**	**0.8160**	**0.2115**	**0.0248**	**0.2363**	**0.0000**	**1,076.5473**	**1,076.5473**	**0.0362**	**2.9000e-003**	**1,078.3158**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**31.55**	**8.77**	**51.12**	**57.91**	**5.95**	**96.29**	**46.36**	**5.95**	**96.36**	**73.89**	**100.00**	**5.60**	**12.97**	**92.60**	**6.15**	**13.75**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	5/3/2021	5	1	
2	Site Preparation	Site Preparation	5/4/2021	5/10/2021	5	5	
3	Grading	Grading	5/11/2021	6/21/2021	5	30	
4	Building Construction	Building Construction	7/6/2021	7/4/2022	5	260	
5	Paving	Paving	6/22/2021	7/5/2021	5	10	
6	Architectural Coating	Architectural Coating	7/20/2021	7/18/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.93

Acres of Paving: 0.74

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,934 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0156	0.5292	0.1116	1.5700e-003	0.0349	1.6600e-003	0.0366	9.5800e-003	1.5900e-003	0.0112		167.9819	167.9819	8.3400e-003		168.1903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0638**	**0.5574**	**0.4800**	**2.7600e-003**	**0.1582**	**2.4400e-003**	**0.1606**	**0.0423**	**2.3000e-003**	**0.0446**		**286.7759**	**286.7759**	**0.0110**		**287.0507**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0156	0.5292	0.1116	1.5700e-003	0.0349	1.6600e-003	0.0366	9.5800e-003	1.5900e-003	0.0112		167.9819	167.9819	8.3400e-003		168.1903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0638**	**0.5574**	**0.4800**	**2.7600e-003**	**0.1582**	**2.4400e-003**	**0.1606**	**0.0423**	**2.3000e-003**	**0.0446**		**286.7759**	**286.7759**	**0.0110**		**287.0507**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	**0.0579**	**0.0338**	**0.4421**	**1.4300e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**142.5527**	**142.5527**	**3.1900e-003**		**142.6324**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	**0.0579**	**0.0338**	**0.4421**	**1.4300e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**142.5527**	**142.5527**	**3.1900e-003**		**142.6324**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0482**	**0.0282**	**0.3685**	**1.1900e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**118.7939**	**118.7939**	**2.6600e-003**		**118.8603**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0482**	**0.0282**	**0.3685**	**1.1900e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**118.7939**	**118.7939**	**2.6600e-003**		**118.8603**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7234	0.1706	1.9100e-003	0.0474	1.5700e-003	0.0490	0.0136	1.5000e-003	0.0151		202.2710	202.2710	9.4900e-003		202.5083
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0860**	**0.7610**	**0.6618**	**3.5000e-003**	**0.2117**	**2.6000e-003**	**0.2143**	**0.0572**	**2.4500e-003**	**0.0597**		**360.6629**	**360.6629**	**0.0130**		**360.9887**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7234	0.1706	1.9100e-003	0.0474	1.5700e-003	0.0490	0.0136	1.5000e-003	0.0151		202.2710	202.2710	9.4900e-003		202.5083
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0860**	**0.7610**	**0.6618**	**3.5000e-003**	**0.2117**	**2.6000e-003**	**0.2143**	**0.0572**	**2.4500e-003**	**0.0597**		**360.6629**	**360.6629**	**0.0130**		**360.9887**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0203	0.6856	0.1604	1.8900e-003	0.0474	1.3600e-003	0.0487	0.0136	1.3000e-003	0.0149		200.3012	200.3012	9.0800e-003		200.5281
Worker	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586
Total	**0.0801**	**0.7193**	**0.6131**	**3.4200e-003**	**0.2117**	**2.3700e-003**	**0.2140**	**0.0572**	**2.2300e-003**	**0.0595**		**352.8802**	**352.8802**	**0.0123**		**353.1866**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0203	0.6856	0.1604	1.8900e-003	0.0474	1.3600e-003	0.0487	0.0136	1.3000e-003	0.0149		200.3012	200.3012	9.0800e-003		200.5281
Worker	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586
Total	**0.0801**	**0.7193**	**0.6131**	**3.4200e-003**	**0.2117**	**2.3700e-003**	**0.2140**	**0.0572**	**2.2300e-003**	**0.0595**		**352.8802**	**352.8802**	**0.0123**		**353.1866**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0643**	**0.0376**	**0.4913**	**1.5900e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**158.3919**	**158.3919**	**3.5400e-003**		**158.4804**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0643**	**0.0376**	**0.4913**	**1.5900e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**158.3919**	**158.3919**	**3.5400e-003**		**158.4804**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0129	7.5200e-003	0.0983	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		31.6784	31.6784	7.1000e-004		31.6961
Total	**0.0129**	**7.5200e-003**	**0.0983**	**3.2000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**31.6784**	**31.6784**	**7.1000e-004**		**31.6961**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0129	7.5200e-003	0.0983	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		31.6784	31.6784	7.1000e-004		31.6961
Total	**0.0129**	**7.5200e-003**	**0.0983**	**3.2000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**31.6784**	**31.6784**	**7.1000e-004**		**31.6961**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0120	6.7400e-003	0.0905	3.1000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		30.5158	30.5158	6.4000e-004		30.5317
Total	**0.0120**	**6.7400e-003**	**0.0905**	**3.1000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**30.5158**	**30.5158**	**6.4000e-004**		**30.5317**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0120	6.7400e-003	0.0905	3.1000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		30.5158	30.5158	6.4000e-004		30.5317
Total	**0.0120**	**6.7400e-003**	**0.0905**	**3.1000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**30.5158**	**30.5158**	**6.4000e-004**		**30.5317**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2418	0.8937	2.4136	9.0500e-003	0.7907	7.0200e-003	0.7978	0.2115	6.5500e-003	0.2181		915.7669	915.7669	0.0306		916.5315
Unmitigated	0.2464	0.9194	2.5332	9.5700e-003	0.8408	7.4000e-003	0.8482	0.2249	6.9100e-003	0.2318		969.1667	969.1667	0.0320		969.9671

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	171.36	171.36	171.36	395,774	372,226
Total	171.36	171.36	171.36	395,774	372,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Single Family Housing	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
NaturalGas Unmitigated	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1433.35	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Total		**0.0155**	**0.1321**	**0.0562**	**8.4000e-004**		**0.0107**	**0.0107**		**0.0107**	**0.0107**		**168.6291**	**168.6291**	**3.2300e-003**	**3.0900e-003**	**169.6311**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.3439	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Total		**0.0145**	**0.1239**	**0.0527**	**7.9000e-004**		**0.0100**	**0.0100**		**0.0100**	**0.0100**		**158.1063**	**158.1063**	**3.0300e-003**	**2.9000e-003**	**159.0459**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Unmitigated	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4416	0.0654	4.0104	0.0131		0.6542	0.6542		0.6542	0.6542	96.5632	0.0000	96.5632	0.4514	0.0000	107.8485
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**1.3198**	**0.0825**	**5.4958**	**0.0132**		**0.6624**	**0.6624**		**0.6624**	**0.6624**	**96.5632**	**2.6741**	**99.2373**	**0.4540**	**0.0000**	**110.5869**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**0.8264**	**0.0171**	**1.4854**	**8.0000e-005**		**8.2200e-003**	**8.2200e-003**		**8.2200e-003**	**8.2200e-003**	**0.0000**	**2.6741**	**2.6741**	**2.5700e-003**	**0.0000**	**2.7384**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Diablo Meadows Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	3.19	32,400.00	51
Other Asphalt Surfaces	0.74	Acre	0.74	32,234.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	257.69	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Acreage updated per site plan.

Construction Phase - Phase timing provided by applicant.

Grading - total acres graded adjusted per site plan

Demolition -

Vehicle Trips - trip rate adjusted for ITE trip generation rates 9th edition

Woodstoves - Per AQ questionnaire, no fireplaces proposed

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Diablo Meadows Project - Bay Area AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	18.00	260.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	PhaseEndDate	6/23/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	5/4/2022	7/4/2022
tblConstructionPhase	PhaseEndDate	5/28/2021	5/3/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/21/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	7/5/2021
tblConstructionPhase	PhaseEndDate	6/4/2021	5/10/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	7/20/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	7/6/2021
tblConstructionPhase	PhaseStartDate	6/5/2021	5/11/2021
tblConstructionPhase	PhaseStartDate	5/5/2022	6/22/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	5/4/2021
tblFireplaces	NumberGas	4.50	0.00
tblFireplaces	NumberNoFireplace	1.44	18.00
tblFireplaces	NumberWood	7.74	0.00
tblGrading	AcresOfGrading	15.00	3.93
tblLandUse	LotAcreage	5.84	3.19
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0307	40.5389	22.0295	0.0415	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,022.5176	4,022.5176	1.1950	0.0000	4,049.1704
2022	3.8147	17.7648	18.8674	0.0334	0.2446	0.8934	1.1379	0.0659	0.8453	0.9113	0.0000	3,199.6389	3,199.6389	0.6436	0.0000	3,215.7296
Maximum	**4.0307**	**40.5389**	**22.0295**	**0.0415**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,022.5176**	**4,022.5176**	**1.1950**	**0.0000**	**4,049.1704**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0307	40.5389	22.0295	0.0415	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,022.5176	4,022.5176	1.1950	0.0000	4,049.1704
2022	3.8147	17.7648	18.8674	0.0334	0.2446	0.8934	1.1379	0.0659	0.8453	0.9113	0.0000	3,199.6389	3,199.6389	0.6436	0.0000	3,215.7296
Maximum	**4.0307**	**40.5389**	**22.0295**	**0.0415**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,022.5176**	**4,022.5176**	**1.1950**	**0.0000**	**4,049.1704**

Diablo Meadows Project - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869
Energy	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Mobile	0.2120	0.9666	2.5450	8.9600e-003	0.8408	7.4400e-003	0.8482	0.2249	6.9500e-003	0.2319		907.6690	907.6690	0.0326		908.4842
Total	**1.5473**	**1.1812**	**8.0970**	**0.0230**	**0.8408**	**0.6806**	**1.5213**	**0.2249**	**0.6801**	**0.9050**	**96.5632**	**1,078.9722**	**1,175.5354**	**0.4898**	**3.0900e-003**	**1,188.7023**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Energy	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Mobile	0.2075	0.9379	2.4386	8.4700e-003	0.7907	7.0500e-003	0.7978	0.2115	6.5900e-003	0.2181		857.5505	857.5505	0.0312		858.3313
Total	**1.0483**	**1.0789**	**3.9767**	**9.3400e-003**	**0.7907**	**0.0253**	**0.8160**	**0.2115**	**0.0248**	**0.2364**	**0.0000**	**1,018.3309**	**1,018.3309**	**0.0368**	**2.9000e-003**	**1,020.1156**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.25**	**8.66**	**50.89**	**59.32**	**5.95**	**96.29**	**46.36**	**5.95**	**96.35**	**73.88**	**100.00**	**5.62**	**13.37**	**92.48**	**6.15**	**14.18**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	5/3/2021	5	1	
2	Site Preparation	Site Preparation	5/4/2021	5/10/2021	5	5	
3	Grading	Grading	5/11/2021	6/21/2021	5	30	
4	Building Construction	Building Construction	7/6/2021	7/4/2022	5	260	
5	Paving	Paving	6/22/2021	7/5/2021	5	10	
6	Architectural Coating	Architectural Coating	7/20/2021	7/18/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.93

Acres of Paving: 0.74

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,934 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0160	0.5416	0.1198	1.5400e-003	0.0349	1.6900e-003	0.0366	9.5800e-003	1.6200e-003	0.0112		165.1421	165.1421	8.7400e-003		165.3606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0671**	**0.5764**	**0.4645**	**2.6400e-003**	**0.1582**	**2.4700e-003**	**0.1606**	**0.0423**	**2.3300e-003**	**0.0446**		**274.5726**	**274.5726**	**0.0112**		**274.8530**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0160	0.5416	0.1198	1.5400e-003	0.0349	1.6900e-003	0.0366	9.5800e-003	1.6200e-003	0.0112		165.1421	165.1421	8.7400e-003		165.3606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0671**	**0.5764**	**0.4645**	**2.6400e-003**	**0.1582**	**2.4700e-003**	**0.1606**	**0.0423**	**2.3300e-003**	**0.0446**		**274.5726**	**274.5726**	**0.0112**		**274.8530**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	**0.0613**	**0.0418**	**0.4137**	**1.3200e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**131.3166**	**131.3166**	**2.9700e-003**		**131.3909**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	**0.0613**	**0.0418**	**0.4137**	**1.3200e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**131.3166**	**131.3166**	**2.9700e-003**		**131.3909**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0511**	**0.0348**	**0.3447**	**1.1000e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**109.4305**	**109.4305**	**2.4800e-003**		**109.4924**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0511**	**0.0348**	**0.3447**	**1.1000e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**109.4305**	**109.4305**	**2.4800e-003**		**109.4924**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0230	0.7296	0.1961	1.8600e-003	0.0474	1.6200e-003	0.0490	0.0136	1.5500e-003	0.0152		197.1390	197.1390	0.0103		197.3958
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0911**	**0.7760**	**0.6557**	**3.3200e-003**	**0.2117**	**2.6500e-003**	**0.2143**	**0.0572**	**2.5000e-003**	**0.0597**		**343.0463**	**343.0463**	**0.0136**		**343.3856**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0230	0.7296	0.1961	1.8600e-003	0.0474	1.6200e-003	0.0490	0.0136	1.5500e-003	0.0152		197.1390	197.1390	0.0103		197.3958
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0911**	**0.7760**	**0.6557**	**3.3200e-003**	**0.2117**	**2.6500e-003**	**0.2143**	**0.0572**	**2.5000e-003**	**0.0597**		**343.0463**	**343.0463**	**0.0136**		**343.3856**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0214	0.6908	0.1843	1.8400e-003	0.0474	1.4100e-003	0.0488	0.0136	1.3500e-003	0.0150		195.1872	195.1872	9.8100e-003		195.4325
Worker	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323
Total	**0.0850**	**0.7324**	**0.6061**	**3.2500e-003**	**0.2117**	**2.4200e-003**	**0.2141**	**0.0572**	**2.2800e-003**	**0.0595**		**335.7456**	**335.7456**	**0.0128**		**336.0648**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0214	0.6908	0.1843	1.8400e-003	0.0474	1.4100e-003	0.0488	0.0136	1.3500e-003	0.0150		195.1872	195.1872	9.8100e-003		195.4325
Worker	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323
Total	**0.0850**	**0.7324**	**0.6061**	**3.2500e-003**	**0.2117**	**2.4200e-003**	**0.2141**	**0.0572**	**2.2800e-003**	**0.0595**		**335.7456**	**335.7456**	**0.0128**		**336.0648**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0681**	**0.0464**	**0.4596**	**1.4600e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**145.9073**	**145.9073**	**3.3000e-003**		**145.9899**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0681**	**0.0464**	**0.4596**	**1.4600e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**145.9073**	**145.9073**	**3.3000e-003**		**145.9899**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.2800e-003	0.0919	2.9000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		29.1815	29.1815	6.6000e-004		29.1980
Total	**0.0136**	**9.2800e-003**	**0.0919**	**2.9000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**29.1815**	**29.1815**	**6.6000e-004**		**29.1980**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.2800e-003	0.0919	2.9000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		29.1815	29.1815	6.6000e-004		29.1980
Total	**0.0136**	**9.2800e-003**	**0.0919**	**2.9000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**29.1815**	**29.1815**	**6.6000e-004**		**29.1980**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0127	8.3200e-003	0.0844	2.8000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		28.1117	28.1117	5.9000e-004		28.1265
Total	**0.0127**	**8.3200e-003**	**0.0844**	**2.8000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**28.1117**	**28.1117**	**5.9000e-004**		**28.1265**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0127	8.3200e-003	0.0844	2.8000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		28.1117	28.1117	5.9000e-004		28.1265
Total	**0.0127**	**8.3200e-003**	**0.0844**	**2.8000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**28.1117**	**28.1117**	**5.9000e-004**		**28.1265**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2075	0.9379	2.4386	8.4700e-003	0.7907	7.0500e-003	0.7978	0.2115	6.5900e-003	0.2181		857.5505	857.5505	0.0312		858.3313
Unmitigated	0.2120	0.9666	2.5450	8.9600e-003	0.8408	7.4400e-003	0.8482	0.2249	6.9500e-003	0.2319		907.6690	907.6690	0.0326		908.4842

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	171.36	171.36	171.36	395,774	372,226
Total	171.36	171.36	171.36	395,774	372,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Single Family Housing	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
NaturalGas Unmitigated	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1433.35	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Total		**0.0155**	**0.1321**	**0.0562**	**8.4000e-004**		**0.0107**	**0.0107**		**0.0107**	**0.0107**		**168.6291**	**168.6291**	**3.2300e-003**	**3.0900e-003**	**169.6311**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.3439	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Total		**0.0145**	**0.1239**	**0.0527**	**7.9000e-004**		**0.0100**	**0.0100**		**0.0100**	**0.0100**		**158.1063**	**158.1063**	**3.0300e-003**	**2.9000e-003**	**159.0459**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Unmitigated	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4416	0.0654	4.0104	0.0131		0.6542	0.6542		0.6542	0.6542	96.5632	0.0000	96.5632	0.4514	0.0000	107.8485
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**1.3198**	**0.0825**	**5.4958**	**0.0132**		**0.6624**	**0.6624**		**0.6624**	**0.6624**	**96.5632**	**2.6741**	**99.2373**	**0.4540**	**0.0000**	**110.5869**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**0.8264**	**0.0171**	**1.4854**	**8.0000e-005**		**8.2200e-003**	**8.2200e-003**		**8.2200e-003**	**8.2200e-003**	**0.0000**	**2.6741**	**2.6741**	**2.5700e-003**	**0.0000**	**2.7384**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Diablo Meadows Project

Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	11	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	2.74400E-002	1.90150E-001	2.36000E-001	3.90000E-004	1.13600E-002	1.13600E-002	0.00000E+000	3.31923E+001	3.31923E+001	2.21000E-003	0.00000E+000	3.32477E+001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	1.90000E-004	1.52000E-003	1.84000E-003	0.00000E+000	9.00000E-005	9.00000E-005	0.00000E+000	2.68830E-001	2.68830E-001	2.00000E-005	0.00000E+000	2.69220E-001
Cranes	4.46800E-002	5.13500E-001	2.20360E-001	6.60000E-004	2.10700E-002	1.93800E-002	0.00000E+000	5.76623E+001	5.76623E+001	1.86500E-002	0.00000E+000	5.81285E+001
Excavators	3.78000E-003	3.55300E-002	5.39800E-002	9.00000E-005	1.72000E-003	1.59000E-003	0.00000E+000	7.48715E+000	7.48715E+000	2.42000E-003	0.00000E+000	7.54769E+000
Forklifts	4.73500E-002	4.35450E-001	4.52690E-001	6.00000E-004	2.99300E-002	2.75300E-002	0.00000E+000	5.23736E+001	5.23736E+001	1.69400E-002	0.00000E+000	5.27971E+001
Generator Sets	4.46700E-002	3.96020E-001	4.78440E-001	8.60000E-004	2.04400E-002	2.04400E-002	0.00000E+000	7.34770E+001	7.34770E+001	3.62000E-003	0.00000E+000	7.35675E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73189E+000	8.73189E+000	2.82000E-003	0.00000E+000	8.80249E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	1.44000E-003	1.45500E-002	1.90600E-002	3.00000E-005	7.20000E-004	6.60000E-004	0.00000E+000	2.68383E+000	2.68383E+000	8.70000E-004	0.00000E+000	2.70553E+000
Rollers	1.42000E-003	1.44300E-002	1.41000E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	1.72879E+000	1.72879E+000	5.60000E-004	0.00000E+000	1.74277E+000
Rubber Tired Dozers	2.45900E-002	2.57830E-001	9.48900E-002	2.00000E-004	1.25100E-002	1.15100E-002	0.00000E+000	1.76382E+001	1.76382E+001	5.70000E-003	0.00000E+000	1.77808E+001
Tractors/Loaders/Backhoes	7.12600E-002	7.22840E-001	9.03090E-001	1.25000E-003	4.11300E-002	3.78400E-002	0.00000E+000	1.09583E+002	1.09583E+002	3.54400E-002	0.00000E+000	1.10469E+002
Welders	3.76500E-002	1.93140E-001	2.21940E-001	3.30000E-004	8.97000E-003	8.97000E-003	0.00000E+000	2.44687E+001	2.44687E+001	3.06000E-003	0.00000E+000	2.45451E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	2.74400E-002	1.90140E-001	2.36000E-001	3.90000E-004	1.13600E-002	1.13600E-002	0.00000E+000	3.31923E+001	3.31923E+001	2.21000E-003	0.00000E+000	3.32476E+001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	1.90000E-004	1.52000E-003	1.84000E-003	0.00000E+000	9.00000E-005	9.00000E-005	0.00000E+000	2.68830E-001	2.68830E-001	2.00000E-005	0.00000E+000	2.69220E-001
Cranes	4.46800E-002	5.13500E-001	2.20360E-001	6.60000E-004	2.10700E-002	1.93800E-002	0.00000E+000	5.76622E+001	5.76622E+001	1.86500E-002	0.00000E+000	5.81284E+001
Excavators	3.78000E-003	3.55300E-002	5.39800E-002	9.00000E-005	1.72000E-003	1.59000E-003	0.00000E+000	7.48714E+000	7.48714E+000	2.42000E-003	0.00000E+000	7.54768E+000
Forklifts	4.73500E-002	4.35450E-001	4.52690E-001	6.00000E-004	2.99300E-002	2.75300E-002	0.00000E+000	5.23736E+001	5.23736E+001	1.69400E-002	0.00000E+000	5.27970E+001
Generator Sets	4.46700E-002	3.96020E-001	4.78440E-001	8.60000E-004	2.04400E-002	2.04400E-002	0.00000E+000	7.34769E+001	7.34769E+001	3.62000E-003	0.00000E+000	7.35674E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73188E+000	8.73188E+000	2.82000E-003	0.00000E+000	8.80248E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	1.44000E-003	1.45500E-002	1.90600E-002	3.00000E-005	7.20000E-004	6.60000E-004	0.00000E+000	2.68383E+000	2.68383E+000	8.70000E-004	0.00000E+000	2.70553E+000
Rollers	1.42000E-003	1.44300E-002	1.41000E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	1.72879E+000	1.72879E+000	5.60000E-004	0.00000E+000	1.74277E+000
Rubber Tired Dozers	2.45900E-002	2.57820E-001	9.48900E-002	2.00000E-004	1.25100E-002	1.15100E-002	0.00000E+000	1.76382E+001	1.76382E+001	5.70000E-003	0.00000E+000	1.77808E+001
Tractors/Loaders/Backhoes	7.12600E-002	7.22840E-001	9.03090E-001	1.25000E-003	4.11300E-002	3.78400E-002	0.00000E+000	1.09583E+002	1.09583E+002	3.54400E-002	0.00000E+000	1.10469E+002
Welders	3.76500E-002	1.93140E-001	2.21940E-001	3.30000E-004	8.97000E-003	8.97000E-003	0.00000E+000	2.44687E+001	2.44687E+001	3.06000E-003	0.00000E+000	2.45451E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	5.25901E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20510E-006	1.20510E-006	0.00000E+000	0.00000E+000	1.20309E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21397E-006	1.21397E-006	0.00000E+000	0.00000E+000	1.20423E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33562E-006	1.33562E-006	0.00000E+000	0.00000E+000	1.32491E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14562E-006	1.14562E-006	0.00000E+000	0.00000E+000	1.13643E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22487E-006	1.22487E-006	0.00000E+000	0.00000E+000	1.22337E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14523E-006	1.14523E-006	0.00000E+000	0.00000E+000	1.13604E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	3.87852E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13390E-006	1.13390E-006	0.00000E+000	0.00000E+000	1.12481E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18632E-006	1.18632E-006	0.00000E+000	0.00000E+000	1.17680E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22606E-006	1.22606E-006	0.00000E+000	0.00000E+000	1.22224E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.09	0.05	0.09	0.05	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.05	0.02	0.05	0.02	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	2.13	2.90	4.36	5.45	5.19	5.56	0.00	5.50	5.50	4.19	0.00	5.50
Natural Gas	6.38	6.26	6.24	6.67	6.15	6.15	0.00	6.24	6.24	7.41	5.88	6.24
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.21	15.73	19.98	20.43	17.70
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.32		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.08	0.50		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.05			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.06			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.06			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
Yes	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
Yes	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	7.00	
No	Install High Efficiency Lighting		
Yes	On-site Renewable		100.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Appendix B
Planning Survey Report

Application Form and Planning Survey Report

To Comply With and Receive Permit Coverage Under The East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan

Please complete this application to apply for take authorization under the state and federal East Contra Costa County HCP/NCCP incidental take permits. The East Contra Costa County Habitat Conservancy ("Conservancy") or local jurisdiction (City of Brentwood, City of Clayton, City of Oakley, City of Pittsburg, and Contra Costa County) may request more information in order to deem the application complete.

I. PROJECT OVERVIEW

PROJECT INFORMATION	
PROJECT NAME: Diablo Meadows	
PROJECT TYPE: ☒ Residential ☐ Commercial ☐ Transportation ☐ Utility ☐ Other	
PROJECT DESCRIPTION (BRIEF): 18 unit residential subdivision on 8.66+/- acres. A detailed project description is included in Attachment A.	
PROJECT ADDRESS/LOCATION: West side of Mitchell Canyon Road and east of the south end of Lewis Way in Clayton, Contra Costa County, California.	
PARCEL/PROJECT SIZE (ACRES): 8.66+/- acres	
PROJECT APN(S): 121-090-016-1 and 121-090-011-2	
APPLICATION SUBMITTAL DATE: JULY 2020	**FINAL PSR DATE:** (City/County/Conservancy use)
LEAD PLANNER: Matthew Feske and/or Milan Sikela	
JURISDICTION: ☐ City of Brentwood ☒ City of Clayton ☐ City of Oakley ☐ City of Pittsburg ☐ Contra Costa County ☐ Participating Special Entity* *Participating Special Entities are organizations not subject to the authority of a local jurisdiction. Such organizations may include school districts, irrigation districts, transportation agencies, local park districts, geological hazard abatement districts, or other utilities or special districts that own land or provide public services.	
DEVELOPMENT FEE ZONE: ☐ Zone I ☒ Zone II ☐ Zone III ☐ Zone IV See figure 9-1 of the HCP/NCCP at www.cocohcp.org for a generalized development fee zone map. Detailed development fee zone maps by jurisdiction are available from the jurisdiction.	

PROJECT APPLICANT INFORMATION	
APPLICANT'S NAME: DeNova Homes, Inc.	
AUTHORIZED AGENT'S NAME AND TITLE: Kerri Watt, Director of Entitlements	
PHONE NO.: (925) 605-9304	**APPLICANT'S E-MAIL:** kwatt@denovahomes.com
MAILING ADDRESS: 1500 Willow Pass Court, Concord, CA 94520	

BIOLOGIST INFORMATION[1]	
BIOLOGICAL/ENVIRONMENTAL FIRM: Moore Biological Consultants	
CONTACT NAME AND TITLE: Diane S. Moore, M.S.	
PHONE NO.: (209) 745-1159	**CONTACT'S E-MAIL:** moorebio@softcom.net
MAILING ADDRESS: Moore Biological Consultants, 10330 Twin Cities Rd., Ste. 30, Galt, CA	

[1] A USFWS/CDFW-approved biologist (project-specific) is required to conduct the surveys. Please submit biologist(s) approval request to the Conservancy.

II. PROJECT DETAILS

Please complete and/or provide the following attachments:

1) **Project Description**
Attach as **Attachment A: Project Description**. Provide a detailed written description that concisely and completely describes the project and location. Include the following information:
   - All activities proposed for the site or project, including roads utilized, construction staging areas, and the installation of underground facilities, to ensure the entire project is covered by the HCP/NCCP permit
   - Proposed construction dates, including details on construction phases, if applicable
   - Reference a City/County application number for the project, if applicable
   - General Best Management Practices, if applicable
   - If the project will have temporary impacts, please provide a restoration plan describing how the site will be restored to pre-project conditions, including revegetation seed mixes or plantings and timing

2) **Project Vicinity Map**
Provide a project vicinity map. Attach as **Figure 1** in **Attachment B: Figures**.

3) **Project Site Plans**
Provide any project site plans for the project. Attach as **Figure 2** in **Attachment B: Figures**.

4) **CEQA Document**
Indicate the status of CEQA documents prepared for the project. Provide additional comments below table if necessary.

Type of Document	Status	Date Completed
☒ Initial Study	In preparation	
☐ Notice of Preparation		
☐ Draft EIR		
☐ Final EIR		
☐ Notice of Categorical Exemption		
☐ Notice of Statutory Exemption		
☐ Other (describe)		

The upcoming CEQA review is expected to occur during Summer 2020. This draft PSR has been prepared in support of the project application, providing technical biological information to assist in preparation of the Initial Study/Mitigated Negative Declaration.

III. EXISTING CONDITIONS AND IMPACTS

Please complete and/or provide the following attachments:

1) **Field-Verified Land Cover Map**[2]
Attach a field-verified land cover map in **Attachment B: Figures** and label as **Figure 3**. The map should contain all land cover types present on-site overlaid on aerial/satellite imagery. Map colors for the land cover types should conform to the HCP/NCCP (see *Figure 3-3: Landcover in the Inventory Area* for land cover type legend).

2) **Photographs of the Project Site**
Attach representative photos of the project site in **Attachment B: Figures** and label as **Figure 4**. Please provide captions for each photo.

[2] For PSEs and city or county public works projects, please also identify permanent and temporary impact areas by overlaying crosshatching (permanent impacts) and hatching (temporary impacts) on the land cover map.

3) Land Cover Types and Impacts and Supplemental Tables

- For all terrestrial land cover types please provide calculations to the nearest **hundredth of an acre (0.01)**.
  For aquatic land cover types please provide calculations to the nearest **thousandth of an acre (0.001)**.

- **Permanent Impacts** are broadly defined in the ECCC HCP/NCCP to include all areas removed from an undeveloped or habitat-providing state and includes land in the same parcel or project that is not developed, graded, physically altered, or directly affected in any way but is isolated from natural areas by the covered activity. Unless such undeveloped land is dedicated to the Preserve System or is a deed-restricted creek setback, the development mitigation fee will apply (if proposed, would require Conservancy approval).
- **Temporary Impacts** are broadly defined in the ECCC HCP/NCCP as any impact on vegetation or habitat that does not result in permanent habitat removal (i.e. vegetation can eventually recover).
- If **wetland (riparian woodland/scrub, wetland, or aquatic)** land cover types are present on the parcel but will not be impacted please discuss in the following section 4) Jurisdictional Wetlands and Waters. Wetland impact fees will only be charged if wetland features are impacted. However, development fees will apply to the entire parcel.
- **Stream** land cover type is considered a linear feature where impacts are calculated based on length impacted. The acreage within a stream, below Top of Bank (TOB), must be assigned to the adjacent land cover type(s). Insert area of impact to stream below TOB in parentheses after the Land Cover acreage number (e.g., Riparian Woodland/Scrub: 10 (0.036) – where 10 is the total impacted acreage including 0.036 acre, which is the acreage within stream TOB). Complete following supplemental **Stream Feature Detail** table to provide information for linear feet.
- **Total Impacts** acreage should be the total parcel acreage (development project) or project footprint acreage (rural infrastructure or utility project).

Table 1: Land Cover Types and Impacts

Land Cover Type	Permanent Impacts	Temporary Impacts	*Proposed for HCP/NCCP Dedication on the Parcel (Requires Conservancy Approval)*	
			Stream Setback	*Preserve System Dedication*
Grassland				
Annual Grassland	8.07 acres			
Alkali Grassland				
Ruderal				
Shrubland				
Chaparral and Scrub				
Woodland				
Oak Savannah				
Oak Woodland				
Riparian				
Riparian Woodland/Scrub				
Wetland				
Permanent Wetland				
Seasonal Wetland	0.19 acres (will be avoided)			
Alkali Wetland				
Aquatic				
Aquatic (Reservoir/Open Water)				
Slough/Channel				
Pond				
Stream (in linear feet)	0.02 acres (345 lineal feet – will be avoided)	-	-	-
Irrigated Agriculture				
Pasture				
Cropland				
Orchard				
Vineyard				
Other				
Nonnative woodland				
Wind turbines				
Developed (not counted toward Fees)				
Urban	0.38			
Aqueduct				
Turf				
Landfill				
TOTAL IMPACTS	8.66			

Identify any uncommon vegetation and uncommon landscape features[3]:

Supplemental to Table 1: Uncommon Vegetation and Landscape Features

	Permanent Impacts	Temporary Impacts
Uncommon Grassland Alliances		
Purple Needlegrass Grassland		
Blue Wildrye Grassland		
Creeping Ryegrass Grassland		
Wildflower Fields		
Squirreltail Grassland		
One-sided Bluegrass Grassland		
Serpentine Bunchgrass Grassland		
Saltgrass Grassland		
Alkali Sacaton Bunchgrass Grassland		
☐ Other		
Uncommon Landscape Features		
Rock Outcrops		
Caves		
Springs and seeps		
Scalds		
Sand Deposits		
☐ Mines[4]		
☐ Buildings (bat roosts)[3]		
☒ Potential nest sites (trees or cliffs)[3]	103 trees (most will be retained)	

There are a total of 103 trees within the project site. Several of these trees are too small to support nesting raptors, but other songbirds may use smaller trees in the site for nesting.

Please provide details of impacts to stream features:

Stream Name: None

Watershed: Mt. Diablo Creek

Supplemental to Table 1: Stream Feature Detail[5]

Stream Width	Stream Type[6]	Permanent Impacts (linear feet)[7]	Temporary Impacts (linear feet)[7]
☒ ≤ 25 feet wide ☐ > 25 feet wide	☐ Perennial ☐ Intermittent ☐ Ephemeral, 3rd or higher order ☒ Ephemeral, 1st or 2nd order	0	0
☐ ≤ 25 feet wide ☐ > 25 feet wide	☐ Perennial ☐ Intermittent ☐ Ephemeral, 3rd or higher order ☐ Ephemeral, 1st or 2nd order		
☐ ≤ 25 feet wide ☐ > 25 feet wide	☐ Perennial ☐ Intermittent ☐ Ephemeral, 3rd or higher order ☐ Ephemeral, 1st or 2nd order		

[3] These acreages are for Conservancy tracking purposes. Impacts to these uncommon vegetation and landscape features should be accounted for within the land cover types in Table 1 (e.g., x acres of purple needlegrass in this supplemental table should be accounted for within annual grassland in Table 1).

[4] Insert amount/number, not acreage. Provide additional information on these features in Attachment A: Project Description.

[5] Use more than 1 row as necessary to describe impacts to streams on site.

[6] See glossary (Appendix A) for definition of stream type and order.

[7] Stream length is measured along stream centerline, based on length of impact to any part of the stream channel, TOB to TOB.

4) Summary of Land Cover Types

Please provide a written summary of descriptions for land cover types found on site including characteristic vegetation.

Annual Grassland: The west part of the site consists of rolling hill vegetated with annual grassland vegetation (Figures 3 and 4a-4c). The east "panhandle" of the site near Mitchell Canyon Road is a flat terrace vegetated with annual grassland vegetation, although this area is much more disturbed by periodic mowing and/or disking presumably for fire suppression and weed abatement. Dominant species in the annual grasslands in the west part of the site include oats (*Avena fatua*), ripgut brome (*Bromus diandrus*), foxtail barley (*Hordeum murinum*), California poppy (*Eschscholzia californica*), common bedstraw (*Galium aparine*), cut leaved geranium (*Geranium dissectum*) and (*Vicia americana*). Dominant species in the more disturbed grassland areas include oats, ripgut brome, black mustard (*Brassica nigra*), yellow star-thistle (*Centaurea solstitialis*), radish (*Raphanus sativa*), rose clover (*Trifolium hirtum*), and filaree (*Erodium* spp.).

Seasonal Wetland: There is marginal seasonal wetland feature in the west part of the site, located in a low valley at the base of two notable hillslopes (Figures 4d-4e and Wetland Delineation in Attachment E). Vegetation associated with this seasonal wetland includes perennial ryegrass (*Lolium perenne*), creeping wild rye (*Leymus triticoides*), curly dock (*Rumex crispus*), a few other marginal hydrophytes, and some upland species including black mustard and common bedstraw (*Galium aparine*).

Stream: There is a very weak ephemeral stream along the west edge of the site with a barely discernible Ordinary High Water Mark (OHWM) (Figure 4e and Wetland Delineation in Attachment E). The channel is approximately 1 to 2 feet wide with no adjacent wetlands. The south end of the seasonal wetland abruptly transitions to a defined channel with notable bed and bank that is best described as an ephemeral stream (See Wetland Delineation in Attachment E). The channel is approximately 3 feet wide with no adjacent wetlands.

Urban/Developed: There is an area in the northwest part of the site (Figure 3) that is depicted on the ECCC HCP/NCCP Map of Fee Zones and Land Cover Types as urbanized and previously developed. An historical aerial photograph from 1939 shows almost the entire site as an orchard; a home site was likely present in a gap in the orchard in the area mapped as urbanized. While no evidence of structures remains, there is a notably straight row of walnuts in this area that was likely along an old fence line and a depressional area in the nearby seasonal wetland that appears to the remnants of a small constructed stock pond.

Trees: There are trees scattered throughout the project site, including remnant orchard trees and stumps. Valley oak (*Quercus lobata*) is the most dominant tree species, intermixed with lesser numbers of black walnut (*Juglans californica*), coast live oak (Quercus agrifolia), and coast redwood (Sequoia sempervirens). There are also a few relatively small ornamental species and fruit trees such as California pepper tree (*Schinus molle*), almond (*Prunus dulcis*), and olive (*Olea europeaea*) in the site (Figure 5a). Several of the trees in the east part of the site are along the fence-lines bordering the site and adjacent parcels.

5) Jurisdictional Wetlands and Waters

If wetlands and waters are present on the project site, project proponents must conduct a delineation of jurisdictional wetlands and waters. Jurisdictional wetlands and waters are defined on pages 1-18 and 1-19 of the ECCC HCP/NCCP as the following land cover types: permanent wetland, seasonal wetland, alkali wetland, aquatic, pond, slough/channel, and stream. It should be noted that these features differ for federal and state jurisdictions. If you have identified any of these land cover types in Table 1, complete the section below.

a) Attach the wetland delineation report as **Attachment E: Wetland Delineation.** If a wetland delineation has not been completed, please explain below in section 4c.

b) Please check the following permits the project may require. Please submit copies of these permits to the Conservancy prior to the start of construction:

☐ CWA Section 404 Permit[8] ☐ CWA Section 401 Water Quality Certification

☐ Waste Discharge Requirements ☐ Lake and Streambed Alteration Agreement

c) Provide any additional information on impacts to jurisdictional wetland and waters below, including status of the permit(s):

A wetland delineation of the site was conducted on April 3, 2020 and April 29, 2020. There is a total of 0.21 acres of potentially jurisdictional Waters of the U.S., including Wetlands in the project site. This total includes a 0.19+/- acre seasonal wetland and 0.020+/- acres of ephemeral streams, which are respectively labeled "SW-1", and "ES-1" and "ES-2"on the Wetland Delineation Map (Attachment E).

The project has been designed to accomplish 100% avoidance of potentially jurisdictional Waters of the U.S. and wetlands. Further, the project provides minimum 25-foot setbacks between potentially jurisdictional features and the limits of grading (Figures 2c-2f).

6) Species-Specific Planning Survey Requirements

Based on the land cover types found on-site and identified in Table 1, check the applicable boxes in Table 2a.

Table 2a. Species –Specific Planning Survey Requirements

Land Cover Type in Project Area	Required Survey Species	Habitat Element in Project Area	Planning Survey Requirement[9]	Info in HCP
☒ Grasslands, oak savannah, agriculture, or ruderal	☒ San Joaquin kit fox	Assumed if within modeled range of species	If within modeled range of species, identify and map potential breeding or denning habitat within the project site and a 250-ft radius around the project footprint.	pp. 6-37 to 6-38
	☒ Western burrowing owl	Assumed	Identify and map potential breeding habitat within the project site and a 500-ft radius around the project footprint. Please note the HCP requires buffers for occupied burrows. Surveys may need to encompass an area larger than the project footprint.	pp. 6-39 to 6-41
☐ Aquatic (ponds, wetlands, streams, sloughs, channels, and marshes)	☐ Giant garter snake	Aquatic habitat accessible from the San Joaquin River	Identify and map potential habitat.	pp. 6-43 to 6-45
	☐ California tiger salamander	Ponds and wetlands Vernal pools Reservoirs Small lakes	Identify and map potential breeding habitat. Document habitat quality and features. Provide the Conservancy with photo-documentation and report.	pp. 6-45
	☐ California red-legged frog	Slow-moving streams, ponds and wetlands	Identify and map potential breeding habitat. Document habitat quality and features. Provide the Conservancy with photo-documentation and report.	p. 6-46
	☐ Covered shrimp	Seasonal wetlands Vernal pools Sandstone rock outcrops Sandstone depressions	Identify and map potential habitat. Please note the HCP requires a 50 foot non-disturbance buffer from seasonal wetlands that may be occupied by covered shrimp. Surveys may need to encompass an area larger than the project footprint.	pp. 6-46 to 6-48

[8] The USACE Sacramento District issued a Regional General Permit 1 (RGP) related to ECCC HCP/NCCP covered activities. The RGP is designed to streamline wetland permitting in the entire ECCC HCP/NCCP Plan Area by coordinating the avoidance, minimization, and mitigation measures in the Plan with the Corps' wetland permitting requirement. Applicants seeking authorization under this RGP shall notify the Corps in accordance with RGP general condition number 18 (Notification).

[9] The planning survey requirements in this table are not comprehensive. Please refer to Chapter 6.4.3 in the ECCC HCP/NCCP for more detail.

☒ Any	☐ Townsend's big-eared bat	Rock formations with caves Mines Abandoned buildings outside urban area	Map and document potential breeding or roosting habitat.	pp. 6-36 to 6-37
	☐ Swainson's hawk	Potential nest sites within 1,000 feet of project	Inspect large trees for presence of nest sites. Document and map.	pp. 6-41 to 6-43
	☒ Golden Eagle	Potential nest sites with ½ mile of project	Inspect large trees for presence of nest sites. Document and map.	pp. 6-38 to 6-39
Surveys for all covered species must be conducted by a qualified biologist (USFWS/CDFW project-specific approved). Please submit biologist approval request to the East Contra Costa County Habitat Conservancy. Surveys for all covered species must be conducted according to the respective USFWS or CDFW survey protocols, as identified in Chapter 6.4.3 in the HCP/NCCP.				

7) Planning Survey Species Habitat Maps

Provide Planning Survey Species Habitat Maps as required in Table 2a, attach as **Figure 5** in **Attachment B: Figures**.

8) Results of Species Specific Surveys

Provide a written summary describing the results of the planning surveys. Please discuss the location, quantity, and quality of suitable habitat for specified covered wildlife species on the project site.

General Setting: The project site is in Clayton, in Contra Costa County, California (Figure 1). The site is in Section 14 within Township 1 North, Range 1 West of the USGS Clayton topographic quadrangle (Figure 2). The site slopes generally down toward the northwest and there is a notable valley in the west-central part of the site (Figure 2b). Site elevations range from approximately 475 to 550 feet above mean sea level. Land uses in this portion of Contra Costa County are primarily residential and open space, mostly used for rangeland. Lands to the north and east of the site are primarily residential subdivisions. There are mines and open rangeland areas to the west and south of the site.

The site provides potentially suitable habitat for San Joaquin kit fox (*Vulpes macrotis mutica*), western burrowing owl (*Athene cunnicularia*), and golden eagles (*Aquila chrysaetos*) (Table 1 and Figure 3). Each of these species is discussed below.

San Joaquin Kit Fox: The site consists of annual grassland and ruderal grassland (Figure 5a) that is just within the historical range of San Joaquin kit fox. California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB) contains no occurrences of San Joaquin kit fox within 0.5 miles of the site (Figure 5b). The site is within the modeled range of the species and is identified as "Suitable Core Habitat" in Appendix D of the ECCCHCP/NCCP. Therefore, the on-site grasslands were inspected for burrows or dens with evidence of kit fox occupancy (i.e. scat, tracks) or burrows or dens that meet the dimensional criteria for kit fox. Comprehensive inspection of potential den habitat was accomplished by walking meandering transects throughout the property. No potential San Joaquin kit fox dens were observed.

Western Burrowing Owl: The site consists of annual grassland and ruderal grassland (Figure 5a) that is within the range of western burrowing owl. CDFW's CNDDB contains no occurrences of western burrowing owl within 0.5 miles of the site (Figure 5b). The site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Comprehensive inspection of potential burrowing owl habitat was accomplished by walking meandering transects throughout the property. No western burrowing owls or burrows with evidence of burrowing owl occupancy were observed.

Golden Eagle: The site is annual grassland and ruderal grassland that is within the range of golden eagle. CDFW's CNDDB contains no occurrences of western burrowing owl within 0.5 miles of the site (Figure 5b). Only a few of the trees depicted on Figure 5a are large enough to support golden eagle. There are also a few potential nest trees near and visible from the site that are potentially suitable. Trees in and visible from the site were inspected for raptor stick nests. No raptor stick nests were observed in the on-site trees or off-site trees visible from the site. No golden eagles were observed and this species nests more often on cliffs in remote natural areas than in trees near urban areas.

Other Covered Species: While there is an ephemeral stream in the site, it does not provide suitable habitat for California red-legged frog (*Rana auroura draytonii*). Similarly, the seasonal wetland swale in the site does not provide suitable habitat for California tiger salamander (*Ambystoma californiense*) or vernal pool branchiopods, which are covered species that occur in vernal pools and stock ponds. These species are discussed below, as well as a few other covered species for which there is modeled habitat in the site.

The site is within the range of California red-legged frog. The site is "potential migration and aestivation habitat" in the modeled range of California red-legged frog as mapped in Appendix D of the ECCCCHCP. While the stream along the west edge of the site is mapped as potential breeding habitat for this species in Appendix D of the ECCCCHCP, this 1-2 foot wide ephemeral stream (EC-2) does not provide suitable California red-legged frog breeding habitat. California red-legged frog may travel across the on-site grasslands on occasion while dispersing from off-site aquatic habitats and could potentially aestivate in the grasslands in the west part of the site. Due to periodic disking, the grasslands in the east part of the site that will be developed are not suitable for aestivating California red-legged frogs. There are no occurrences of California red-legged frog in the CNDDB (2020) within a few miles of the site.

The seasonal wetland in the site (Figure 3) is not a vernal pool. The swale has directional flow and is saturated seasonally, but surface water is present only during or shortly after rain events. This seasonal wetland feature is moderately disturbed from periodic mowing and past cultivation of orchard crops. This seasonal wetland swale does not provide suitable habitat for vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), or other special-status branchiopods.

The site is also within the range of California tiger salamander. The site is "suitable migration and aestivation habitat" in the modeled range of California tiger salamander as mapped in Appendix D of the ECCCCHCP. A pond in the mine to the south of the site is mapped as potential breeding habitat for this species. Due to its hydrological regime, the seasonal wetland in the site does not provide suitable breeding habitat for California tiger salamander. Due to intensive disking, the grasslands in the portion of the site that will be developed are not suitable for California tiger salamander aestivation. There are no occurrences of California tiger salamander in the CNDDB (2020) within a few miles of the site.

While the site is also mapped in Appendix D of the ECCCCHCP as potential movement habitat for Alameda whipsnake (*Masticophis lateralis euryxanthus*), it does not contain the mosaic of scrub, chaparral, grassland, and woodland habitat required by this species.

The site mapped in Appendix D of the ECCCCHCP as "primary foraging habitat" for tricolored blackbird (*Agelaius tricolor*). The on-site grasslands may be used by this species for foraging.

Finally, the stream along the west edge of the site is mapped in Appendix D of the ECCCCHCP as "potential movement habitat" for western pond turtle (*Emys marmorata*) and is mapped in Appendix D of the ECCCCHCP as "suitable low use habitat" for foothill yellow-legged frog (*Rana boylii*). However, due to its hydrological regime, this ephemeral stream is unlikely to be used by either species.

9) Covered and No-Take Plants

Please check the applicable boxes in Table 2b based on the land cover types found in the project area. If suitable land cover types are present on site, surveys must be conducted using approved CDFW/USFWS methods during the appropriate season for identification of covered and no-take species (see page 6-9 of the ECCC HCP/NCCP). Reference populations of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant species is visible and detectable at the time surveys are conducted. In order to complete all the necessary covered and no-take plant surveys, spring, summer, and fall surveys may be required.

Table 2b. Covered and No-Take Plant Species

Plant Species	Covered (C) or No-Take (N)	Associated Land Cover Type	Typical Habitat or Physical Conditions, if Known	Typical Blooming Period	Suitable Land Cover Type Present
Adobe navarretia (*Navarretia nigelliformis* ssp. *radians*) [a]	C	Annual Grassland	Generally found on clay barrens in Annual Grassland [b]	Apr–Jun	☒ Yes ☐ No
Alkali milkvetch (*Astragalus tener* ssp. *tener*)	N	Alkali grassland Alkali wetland Annual grassland Seasonal wetland	Generally found in vernally moist habitat in soils with a slight to strongly elevated pH	Mar–Jun	☒ Yes ☐ No
Big tarplant (*Blepharizonia plumosa*)	C	Annual grassland	Elevation below 1500 feet [d] most often on Altamont Series or Complex soils	Jul–Oct	☒ Yes ☐ No
Brewer's dwarf flax (*Hesperolinon breweri*)	C	Annual grassland Chaparral and scrub Oak savanna Oak woodland	Generally, restricted to grassland areas within a 500+ buffer from oak woodland and/or chaparral/scrub [d]	May–Jul	☒ Yes ☐ No
Brittlescale (*Atriplex depressa*)	C	Alkali grassland Alkali wetland	Restricted to soils of the Pescadero or Solano soil series; generally found in southeastern region of plan area [d]	May–Oct	☐ Yes ☒ No
Caper-fruited tropidocarpum (*Tropidocarpum capparideum)*	N	Alkali grassland		Mar–Apr	☐ Yes ☒ No
Contra Costa goldfields (*Lasthenia conjugens*)	N	Alkali grassland Alkali wetland Annual grassland Seasonal wetland	Generally found in vernal pools	Mar–Jun	☒ Yes ☐ No
Diablo Helianthella (*Helianthella castanea*)	C	Chaparral and scrub Oak savanna Oak woodland	Elevations generally above 650 feet [d]	Mar–Jun	☐ Yes ☒ No
Diamond-petaled poppy (*Eschscholzia rhombipetala*)	N	Annual grassland		Mar–Apr	☒ Yes ☐ No
Large-flowered fiddleneck (*Amsinckia grandiflora*)	N	Annual grassland	Generally on clay soil	Apr–May	☒ Yes ☐ No
Mount Diablo buckwheat (*Eriogonum truncatum*)	N	Annual grassland Chaparral and scrub	Ecotone of grassland and chaparral/scrub	Apr–Sep	☒ Yes ☐ No
Mount Diablo fairy-lantern (*Calochortus pulchellus*)	C	Annual grassland Chaparral and scrub Oak savanna Oak woodland	Elevations generally between 650 and 2,600 [d]	Apr–Jun	☒ Yes ☐ No
Mount Diablo Manzanita (*Arctostaphylos auriculata*)	C	Chaparral and scrub	Elevations generally between 700 and 1,860 feet; restricted to the eastern and northern flanks of Mt. Diablo [d] and the vicinity of Black Diamond Mines	Jan–Mar	☐ Yes ☒ No
Recurved larkspur (*Delphinium recurvatum*)	C	Alkali grassland Alkali wetland		Mar–Jun	☐ Yes ☒ No
Round-leaved filaree (*California macrophylla*) [c]	C	Annual grassland		Mar–May	☒ Yes ☐ No
San Joaquin spearscale (*Extriplex joaquiniana*) [e]	C	Alkali grassland Alkali wetland		Apr–Oct	☐ Yes ☒ No

Showy madia (*Madia radiata*)	C	Annual grassland Oak savanna Oak woodland	Primarily occupies open grassland or grassland on edge of oak woodland	Mar–May	☒ Yes ☐ No

[a] The species *Navarretia nigelliformis* subsp. *nigelliformis* is no longer considered to occur within Contra Costa County based on specimen annotations at the UC and Jepson Herbaria at the University of California Berkeley as well as the opinions of experts in the genus. This taxon is now recognized as *Navarretia nigelliformis* subsp. *radians.* Any subspecies of *Navarretia nigelliformis* encountered as a part of botanical surveys in support of a PSR should be considered as covered under this HCP/NCCP.
[b] Habitat for the *Navarretia nigelliformis* subspecies that occurs within the inventory are is inaccurately described in the HCP/NCCP as vernal pools. The entity within the Inventory generally occupies clay barrens within Annual Grassland habitat, which is an upland habitat type.
[c] From California Native Plant Society. 2007. *Inventory of Rare and Endangered Plants* (online edition, v7-07d). Sacramento, CA. Species may be identifiable outside of the typical blooming period; a professional botanist shall determine if a covered or no take plant occurs on the project site. Reference population of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant is visible and detectable at the time surveys are conducted.
[d] See Species Profiles in Appendix D of the Final HCP/NCCP. Reference populations of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant species is visible and detectable at the time surveys are conducted.
[e] In the recent update to the Jepson eflora (JFP 2013) *Atriplex joaquinana* has been circumscribed and segregated into a new genus called *Extriplex* based on the work of Elizabeth Zacharias and Bruce Baldwin (2010). The etymology of the genus *Extriplex* means, "beyond or outside Atriplex".

10) Results of Covered and No-Take Plant Species

Provide a written summary describing the results of the planning surveys conducted as required in Table 2b. Describe the methods used to survey the site for all covered and no-take plants, including the dates and times of all surveys conducted (see Tables 3-8 and 6-5 of the ECCC HCP/NCCP for covered and no-take plants), including reference populations visited prior to conducting surveys.

If any covered or no-take plant species were found, include the following information in the results summary:

- Description and number of occurrences and their rough population size.
- Description of the "health" of each occurrence, as defined on pages 5-49 and 5-50 of the HCP/NCCP.
- A map of all the occurrences.
- Justification of surveying time window, if outside of the plant's blooming period.
- The CNDDB form(s) submitted to CDFW (if this is a new occurrence).
- A description of the anticipated impacts that the covered activity will have on the occurrence and how the project will avoid impacts to all covered and no-take plant species. If impacts to covered plant species cannot be avoided and plants will be removed by covered activity, the Conservancy must be notified and has the option to salvage the covered plants. All projects must demonstrate avoidance of all six no-take plants (see table 6-5 of the HCP/NCCP).

Survey Methods

Surveys for special-status plants and to assess potentially suitable habitat for special-status plants were undertaken on April 9, April 29, and July 14 2020, by botanist Jeff Glazner. The site was systematically searched for special-status plants by walking throughout the site, identifying plants as possible in the field, and collecting specimens for subsequent identification in the laboratory. The field surveys were floristic in nature with the goal of identifying species observed to the taxonomic level necessary to determine if it was a special-status species or not.

Survey Results and Discussion

No covered or no-take plants were observed or are expected to occur in the project site. The annual grassland in the site is moderately to highly disturbed and does not provide potentially suitable habitat for any of the covered plants that occur in more natural annual grasslands in the greater project vicinity. No alkaline soils are present on the site. The seasonal wetland is also disturbed and provides very poor quality habitat for covered plants that occur in seasonal wetland habitats (i.e., alkali milkvetch and Contra Costa Goldfields). Each of the plant species identified in Table 2b as potentially occurring in annual grassland or seasonal wetland habitats is discussed below.

Adobe (Shining) Navarretia (*Navarretia nigelliformis* ssp. *radians*)[10]: This navarretia, a dicot of the Polemoniaceae family, is an annual herb native to California. It is ranked by the CNPS as 1.B.2. The herbage is

[10] Per Table 2B, the species *Navarretia nigelliformis* subsp. n*igelliformis* is no longer considered to occur within Contra Costa County based on specimen annotations at the UC and Jepson Herbaria at the University of California Berkeley as well as the opinions of experts in the genus. This taxon is now recognized as *Navarretia nigelliformis* subsp. *radians.*

light gray-green with branches decumbent. The corolla is included, 9–11 mm long, with lobes 1-2 mm. The on-line *Inventory of Rare and Endangered Plants* (2020) describes shining navarretia as occurring in vernal pools and clay depressions, at elevations between 492 and 3,280 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. There are no vernal pools in the site and other than the wetland swale, no mesic areas were observed in the site. The species was not detected during the rare plant survey.

Alkali Milkvetch (*Astragalus tener* ssp. *tener*): Alkali milkvetch, a dicot of the Fabaceae family, is an annual herb native and endemic to California. It is ranked by the CNPS as 1.B.2. It produces upright stems up to 30 cm tall with several lance-shaped to oval leaflets. The inflorescence is a dense cluster of pinkish-purple white-smudged flowers. The California Native Plant Society (CNPS) on-line *Inventory of Rare and Endangered Plants* (2020) describes alkali milkvetch as occurring in alkaline habitats of playas, valley and foothill grasslands in adobe clay soils, and vernal pools, at elevations up to 197 feet. It grows in both coastal and inland areas. The CNPS Inventory also describes this species as extirpated in Contra Costa County. The ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. No alkaline soil is present on the site, and the species was not detected during the rare plant survey.

Big Tarplant (*Blepharizonia plumosa*): Big tarweed, a dicot of the Asteraceae family, is an annual herb native and endemic to California. It is ranked by the CNPS as 1.B.1. This aromatic annual herb produces a hairy, erect stem up to 2 meters tall. The leaves are linear in shape and sometimes toothed. The inflorescence bears several flower heads, each with a fringe of up to 13 red-veined white ray florets. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes big tarplant as occurring in valley and foothill grassland habitats (usually clay) at elevations between 98 and 1,657 feet. It grows in the Central Coast Ranges and adjacent sections of the southern San Francisco Bay Area and Central Valley. The site is not mapped in the ECCCHCP/NCCP as "Suitable Low Potential Habitat" or as "Suitable Habitat" for big tarplant although suitable habitat is mapped just to the west. It is unlikely to occur on the site, and it was not detected during the summer (July) survey.

Brewer's Dwarf Flax (*Hesperolinon breweri*): Brewer's dwarf flax, a dicot of the Linaceae family, is an annual herb native and endemic to California, where it is known from 3 counties in the San Francisco Bay Area. It is ranked by the CNPS as 1.B.2. It grows erect to a height of 5 to 20 cm. Its narrow, linear leaves are greenish to purplish in color, and it produces dense inflorescences of flowers with glandular sepals and five bright yellow petals. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Brewer's dwarf flax as occurring in chaparral, cismontane woodland, and valley and foothill grasslands, usually in serpentinite soils, at elevations between 295 and 2,953 feet. The site is not mapped in the ECCCHCP/NCCP as "Suitable Low Potential Habitat" or as "Suitable Habitat" for Brewer's dwarf flax. While the annual grassland on the site may provide potentially suitable habitat for Brewer's dwarf flax, and the species was not detected during the rare plant survey.

Brittlescale *(Atriplex depressa):* Brittlescale, a dicot, is an annual herb of the Chenopodiacae family that is native and endemic to California. It is ranked by the CNPS as 1.B.2. Brittlescale occurs on alkali soils and typically occurs in barren areas within alkali grassland, alkali meadow, and alkali scrub. The CNPS states that the species occurs in alkaline and clay soils of chenopod scrub, meadows and seeps, playas, valley and foothill grassland and vernal pools. It is occasionally found on the margins of alkali vernal pools. Brittlescale occurs along the western side of the Great Valley from Glenn County to Merced County and in the small valleys of the inner Coast Ranges, including the Livermore Valley. It occurs in the broad flood basins of the valley floor and on alluvial fans associated with the major streams draining from the inner Coast Range foothills. It is generally found at low elevations but has been collected up to 1,055 feet. Brittlescale is diminutive and generally grows prostrate; it rarely exceeds 20 centimeters in height. It blooms from April to October. The site is not mapped

in the ECCCHCP/NCCP as "Suitable Habitat" for brittlescale, no alkaline soil is present on the site, and the species was not detected during the rare plant survey.

Caper-fruited tropidocarpum (*Tropidocarpum capparideum*): Caper-fruited tropicocarpum is an annual herb in the Brassicaceae (mustard) family that is native to California. It is ranked by the CNPS as 1.B.1. It occurs in alkaline soils of low hills and Valley and foothill grassland at elevation less than 1,312 feet. The species was generally considered to be extinct since the 1950s, but it has been reported since. According to CNPS, occurrences in Alameda, Contra Costa, Glenn, Santa Clara, and San Joaquin counties are presumed extirpated. Flowers are obovate to spoon-shaped, yellow, occasionally tinged purple, and the bloom period is from March to April. Habitat distribution has not been modeled for caper-fruited tropicocarpum in the ECCCHCP/NCCP. No alkaline soil is present on the site, and the species was not detected during the rare plant survey.

Contra Costa Goldfields (*Lasthenia conjugens*): Contra Costa goldfields, a dicot of the Asteraceae family, is an annual herb native and endemic to California, primarily in vernal pools. It is ranked by the CNPS as 1.B.1. Stems are simple or freely branched and erect attaining a height of less than 40 cm. The yellow ray flowers may number six to thirteen petals, and the five- to ten-millimeter ligules are yellow as well. The yellow disk flowers are numerous, and anther tips are linear to somewhat ovate. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Contra Costa goldfields as occurring in mesic habitats of cismontane woodland, alkaline playas, valley and foothill grasslands, and vernal pools at elevations up to 1,541 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. There are no vernal pools on the site and no suitable habitat for this species. It was not detected during the rare plant survey.

Diablo helianthella (*Helianthella castanea*): Diablo helianthella, a dicot, is a perennial herb of the sunflower family (Asteraceae) that is native to California and endemic to the San Francisco Bay Area, occurring in the Diablo Range, Berkeley Hills, and San Bruno Mountain. It is ranked by the CNPS as 1.B.2. It usually occurs in thin, rocky, well-drained soils, often in partial shade. According to CNPS, its habitats include broadleafed upland forest, chaparral, cismontane and riparian woodland, coastal scrub, and valley and foothill grassland. It most often occurs at elevations below 2,400 feet but it has been collected from locations as high as 3,800 feet. Diablo helianthella grows up to 18 inches tall. Its leaves are up to 6 inches long. The plant usually produces one yellow flower head per stem. Each head contains both ray flowers and disc flowers. It blooms from March to June. The ECCCHCP/NCCP model predicting where this species may occur within the plan area shows these areas to the west, south and east, but not in the study area. Diablo helianthella was not detected during the rare plant survey.

Diamond-petaled poppy (*Eschscholzia rhombipetala*): Diamond-petaled poppy, a dicot of the Papaveraceae family, is an annual herb native and endemic to California, growing 5-30 cm. tall. It is ranked by the CNPS as 1.B.1. Diamond-petaled California poppy may have erect or nodding buds, the flowers are small and yellow, and the bases of the leaves are fleshy. The fruits are conspicuous because they are 4 to 7 cm. long, which may nearly equal the height of the plants The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes diamond-petaled poppy as occurring in valley and foothill grassland habitats with alkaline or clay soils, at elevations up to 3,198 feet.; the CNPS Inventory describes this species as extirpated in Contra Costa County. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. No areas of alkaline or clay soils were observed in the site. While the annual grassland on the site may provide potentially suitable habitat for diamond-petaled poppy, it was not detected during the rare plant survey.

Large-flowered fiddleneck (*Amsinckia grandiflora*): Large-flowered fiddleneck, a dicot of the Boraginaceae family, is an annual herb native and endemic to California. It is ranked by the CNPS as 1.B.1. It is

a striking annual plant, growing to 50 cm. tall and having bright orange flowers (14-20 mm. long). The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes large-flowered fiddleneck as occurring in cismontane woodland and valley and foothill grassland habitats at elevations between 902 and 1,804 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. While the annual grassland in the site may provide potentially suitable habitat for large-flowered fiddleneck, the site is below the elevation range of this species, and this species was not detected during the rare plant survey.

Mount Diablo buckwheat (*Eriogonum truncatum*): Mount Diablo buckwheat, a dicot of the Polygonaceae family, is an annual herb native and endemic to California, known only from Mt. Diablo in Contra Costa County. It is ranked by the CNPS as 1.B.1. It grows between 150–750 millimeters high and blooms with several dozen pinkish flowers, having a maroon line down the center of each petal. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Mount Diablo buckwheat as occurring in sandy soils of chaparral, coastal scrub, and valley and foothill grassland habitats, at elevations between 10 and 1,148 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. No areas of sandy soils were observed in the site. While the annual grassland in the site may provide potentially suitable habitat for Mount Diablo buckwheat, this species was not detected during the rare plant survey.

Mount Diablo fairy-lantern (*Calochortus pulchellus*): Mount Diablo fairy-lantern, a monocot of the Liliaceae family, is a perennial herb (bulb) that is native and endemic to California. It is ranked by the CNPS as 1.B.2. It grows a branching stem up to about 30 cm. tall. The basal leaf is up to 40 cm. long and does not wither at flowering. The inflorescence is a solitary flower or a cluster of several flowers, which are nodding and usually spherical with all their petal tips touching. The three sepals and three petals are 2 or 3 cm long and pale to deep yellow. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Mount Diablo fairy-lantern as occurring in chaparral, cismontane or riparian woodland, and valley and foothill grassland habitats at elevations between 98 and 2,756 feet. In contrast, the ECCCHCP/NCCP describes this species as occurring at elevations between 650 and 2,600 feet. The site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat". While the annual grassland in the site may provide potentially suitable habitat for Mount Diablo fairy-lantern, this species was not detected during the rare plant survey.

Mount Diablo manzanita (*Arctostaphylos auriculata*): Mount Diablo manzanita, a dicot, is an evergreen shrub that is native and endemic to Contra Costa County, California. It is ranked by the CNPS as 1.B.3. Mount Diablo manzanita occurs primarily in chaparral (sandstone) and cismontane woodland. It can be found as an understory shrub in coast live oak woodland. It is found only on Mount Diablo and in the adjacent foothills, between 700 and 1,860 feet. Mount Diablo manzanita is generally between 1 and 4.5 meters tall with serpentine, glandless stems covered in white hair. The short, silvery leaves overlap and have deeply lobed bases. It flowers densely in white. The Mount Diablo Manzanita has no basal burl for regrowth and must propagate by seed. Its bloom period is from January to March. The site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat" for Mount Diablo manzanita; furthermore, the study area is below the reported range for this species, and it was not detected during the rare plant survey.

Recurved larkspur (*Delphinium recurvatum*). Recurved larkspur, a perennial herb, is a member of the buttercup family (Ranunculaceae) that is native and endemic to California. It is ranked by the CNPS as 1.B.2. Recurved larkspur occurs on alkaline soils in chenopod scrub, cismontane woodland, and valley and foothill grasslands ranging in elevation from 328 to 6,562 feet. The species now appears to be very rare outside the southern San Joaquin Valley. Four occurrences are reported from the ECCCHCP/NCCP inventory area, three of which are on private land southeast of Byron. This species reaches a maximum height of about half a meter. Its deeply lobed leaves are mainly basal, with those located further up the dark purple stem being much smaller. The flowers are generally pale blue, with the sepals and lower petals darker than the upper petals.

The sepals are usually curved back, the trait which gives the plant its name. It blooms from March to June. No alkaline soils are present on the site, and the site is located below the elevational range of the species. In addition, the site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat" for recurved larkspur, and the species was not detected during the rare plant survey.

Round-leaved filaree (*California macrophylla*): Round-leaved filaree, a dicot of the Geraniaceae family, is an annual herb native to California. It is ranked by the CNPS as CBR (Considered but Rejected) (CNPS 2020). It grows only a few centimeters high, forming a patch of slightly lobed, somewhat kidney-shaped to rounded leaves on long, slender petioles. The inflorescence is an umbel of flowers with petals around a centimeter long and white in color, often tinted pinkish or purplish. The fruit has a fuzzy base and a long, narrow style which may reach 5 cm. in length. The 2016 version of the CNPS on-line *Inventory of Rare and Endangered Plants* described round-leaved filaree as blooming from March through May and occurring in annual grassland habitats with clay soils, at elevations between 49 and 3,937 feet. The 2020 version of the *Inventory* provides no description of the species. The site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat" for round-leaved filaree, and the species was not detected during the rare plant survey.

San Joaquin spearscale (*Atriplex joaquiniana*): San Joaquin spearscale, a dicot, is an annual herb of the Chenopodiacae family that is native and endemic to California. It is ranked by the CNPS as 1.B.2. San Joaquin spearscale typically occurs in alkaline soils of chenopod scrub, meadows and seeps, playas and valley and foothill grassland. San Joaquin spearscale occurs along the western side of the Great Valley from Glenn County to Merced County and in the small valleys of the inner Coast Ranges, including the Livermore Valley. It occurs in the broad flood basins of the valley floor and on alluvial fans associated with the major streams draining from the inner Coast Range foothills. It is generally found at low elevations but has been collected up to 1,055 feet. It is an annual herb between 1 and 3 feet tall, blooming from April to October. According to the ECCCHCP/NCCP, "a species distribution model was developed that had the same assumptions as the model developed for brittlescale (all alkali grasslands and alkali wetlands on soils of the Pescadero or Solano soil series). Many occurrences, however, fell outside of the modeled habitat. Comparison with detailed mapping of San Joaquin spearscale populations in the Los Vaqueros Watershed (Jones & Stokes Associates 1989) showed that this species is not restricted to soils of the Solano and Pescadero soil series. Other soil series on which the species was found were too widespread to provide a useful prediction of the species' distribution in the inventory area. Therefore, the original species model was discarded." No alkaline soils are present on the site, and San Joaquin spearscale was not detected during the rare plant survey.

Showy madia (*Madia radiata)*: Showy madia, a dicot of the Asteraceae family, is an annual herb native to California, mostly from the Central Coast Ranges and adjacent edges of the San Francisco Bay Area and Central Valley. It is ranked by the CNPS as 1.B.1. It grows upright 10 to 90 cm. tall, the stem often branching and coated in bulbous resin glands. The bristly, glandular leaves are up to 10 cm. long, often wider at the top of the plant than below. The inflorescence produces flower heads lined with hairy, gland-studded phyllaries. The head has golden yellow ray florets up to almost 2 cm, long and a center filled with many disc florets. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes showy madia as blooming from March through May and occurring in cismontane woodland and valley and foothill grassland habitats at elevations between 82 and 2,953 feet. The Inventory also describes this species as extirpated in Contra Costa County. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. While the annual grassland in the site may provide potentially suitable habitat for showy madia, this species was not detected during the rare plant survey.

IV. SPECIES-SPECIFIC AVOIDANCE AND MINIMIZATION REQUIREMENTS

Please complete and/or provide the following attachments:

1) Species-Specific Avoidance and Minimization for Selected Covered Wildlife
Complete the following table and check the applicable box for covered species determined by the planning surveys.

Table 3. Summary of Applicable Preconstruction Surveys, Avoidance and Minimization, and Construction Monitoring Requirements[11]

Species	Preconstruction Survey Requirements	Avoidance and Minimization Requirements	Construction Monitoring Required	Info in HCP
☒ San Joaquin kit fox	• On project footprint and 250-ft radius, map all dens (>5 in. diameter) and determine status • Provide written survey results to USFWS within 5 working days after surveying	• Monitor dens • Destroy unoccupied dens • Discourage use of occupied (non-natal) dens	• Establish exclusion zones (>50 ft for potential dens, and >100 ft for known dens) • Notify USFWS of occupied natal dens	pp. 6-37 to 6-38
☒ Western burrowing owl	• On project footprint and 500-ft radius, identify and map all owls and burrows, and determine status • Document use of habitat (e.g. breeding, foraging)	• Avoid occupied nests during breeding season (Feb-Sep) • Avoid occupied burrows during nonbreeding season (Sep – Feb) • Install one-way doors in occupied burrow (if avoidance not possible) • Monitor burrows with doors installed	• Establish buffer zones (250 ft around nests) • Establish buffer zones (160 ft around burrows)	pp. 6-39 to 6-41
☐ Giant garter snake	• Delineate aquatic habitat up to 200 ft from water's edge on each side • Document any occurrences	• Limit construction to Oct-May • Dewater habitat April 15 – Sep 30 prior to construction • Minimize clearing for construction	• Delineate 200 ft buffer around potential habitat near construction • Provide field report on monitoring efforts • Stop construction activities if snake is encountered; allow snake to passively relocate • Remove temporary fill or debris from construction site • Mandatory training for construction personnel	pp. 6-43 to 6-45
☐ California tiger salamander	• Provide written notification to USFWS and CDFW regarding timing of construction and likelihood of occurrence on site	• Allow agency staff to translocate species, if requested	• None	p. 6-45
☐ California red-legged frog	• Provide written notification to USFWS and CDFW regarding timing of construction and likelihood of occurrence on site	• Allow agency staff to translocate species, if requested	• None	p. 6-46
☐ Covered shrimp	• Establish presence/absence • Document and evaluate use of all habitat features (e.g. vernal pools, rock outcrops)	• Establish buffer near construction activities • Prohibit incompatible activities	• Establish buffer around outer edge of all hydric vegetation associated with habitat (50 ft or immediate watershed, whichever is larger) • Mandatory training for construction personnel	pp. 6-46 to 6-48
☐ Townsend's big-eared bat	• Establish presence/absence • Determine if potential sites were recently occupied (guano)	• Seal hibernacula before Nov • Seal nursery sites before April • Delay construction near occupied sites until hibernation or nursery seasons are over	• None	pp. 6-36 to 6-37
☐ Swainson's hawk	• Determine whether potential nests are occupied	• No construction within 1,000 ft of occupied nests within breeding season (March 15 - Sep 15) • If necessary, remove active nest tree after nesting season to prevent occupancy in second year.	• Establish 1,000 ft buffer around active nest and monitor compliance (no activity within established buffer)	pp. 6-41 to 6-43
☒ Golden Eagle	• Establish presence/absence of nesting eagles	• No construction within ½ mile near active nests (most activity late Jan – Aug)	• Establish ½ mile buffer around active nest and monitor compliance with buffer	pp. 6-38 to 6-39

[11] The requirements in this table are not comprehensive; they are detailed in the next section on the following page.

2) Required Preconstruction Surveys, Avoidance and Minimization, and Construction Monitoring

All preconstruction surveys shall be conducted in accordance with the requirements set forth in Section 6.4.3, Species-Level Measures, and Table 6-1 of the ECCC HCP/NCCP. Detailed descriptions of preconstruction surveys, avoidance and minimization, and construction monitoring applicable to each of the wildlife species in Table 3 are located below. Please remove the species-specific measures that do not apply to your project (highlight entire section and delete).

SAN JOAQUIN KIT FOX

Preconstruction Surveys

Prior to any ground disturbance related to covered activities, a USFWS/CDFW– approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys will establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by kit foxes in accordance with USFWS survey guidelines (U.S. Fish and Wildlife Service 1999).

Preconstruction surveys will be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens will be determined and mapped. Written results of preconstruction surveys will be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the measures described below will be implemented.

Avoidance and Minimization Requirements

- If a San Joaquin kit fox den is discovered in the proposed development footprint, the den will be monitored for 3 days by a USFWS/CDFW– approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.
- Unoccupied dens should be destroyed immediately to prevent subsequent use.
- If a natal or pupping den is found, USFWS and CDFW will be notified immediately. The den will not be destroyed until the pups and adults have vacated and then only after further consultation with USFWS and CDFW.
- If kit fox activity is observed at the den during the initial monitoring period, the den will be monitored for an additional 5 consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied it may be excavated under the direction of the biologist. Alternatively, if the animal is still present after 5 or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgment of a biologist, it is temporarily vacant (i.e., during the animal's normal foraging activities).

Construction Monitoring

If dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances will be demarcated. The configuration of exclusion zones should be circular, with a radius measured outward from the den entrance(s). No covered activities will occur within the exclusion zones. Exclusion zone radii for potential dens will be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by kit fox.

WESTERN BURROWING OWL

Preconstruction Surveys

Prior to any ground disturbance related to covered activities, a USFWS/CDFW- approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The surveys will establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).

On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership will not be surveyed. Surveys should take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls will be identified and mapped. Surveys will take place no more than 30 days prior to construction. During the breeding season (February 1– August 31), surveys will document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1–January 31), surveys will document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results will be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization and Construction Monitoring

This measure incorporates avoidance and minimization guidelines from CDFW's *Staff Report on Burrowing Owl Mitigation* (California Department of Fish and Game 1995).

If burrowing owls are found during the breeding season (February 1 – August 31), the project proponent will avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance will include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 – January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance will include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur will be established around each occupied burrow (nest site). Buffer zones of 160 feet will be established around each burrow being used during the nonbreeding season. The buffers will be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation will be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

GOLDEN EAGLE

Preconstruction Survey

Prior to implementation of covered activities, a qualified biologist will conduct a preconstruction survey to establish whether nests of golden eagles are occupied (see Section 6.3.1, *Planning Surveys*). If nests are occupied, minimization requirements and construction monitoring will be required.

Avoidance and Minimization

Covered activities will be prohibited within 0.5 mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense

vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity will coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction Monitoring

Construction monitoring will focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the ULL, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring will ensure that direct effects to golden eagles are minimized.

3) Construction Monitoring Plan

Before implementing a covered activity, the applicant will develop and submit a construction monitoring plan to the planning department of the local land use jurisdiction and the East Contra Costa County Habitat Conservancy for review and approval. Elements of a brief construction monitoring plan will include the following:

- Results of planning and preconstruction surveys.[12]
- Description of avoidance and minimization measures to be implemented, including a description of project-specific refinements to the measures or additional measures not included in the HCP/NCCP.
- Description of monitoring activities, including monitoring frequency and duration, and specific activities to be monitored.
- Description of the onsite authority of the construction monitor to modify implementation of the activity.

☒ Check box to acknowledge this requirement.

V. SPECIFIC CONDITIONS ON COVERED ACTIVITIES

1) Check off the HCP conservation measures that apply to the project.

APPLIES TO ALL PROJECTS

☒ **Conservation Measure 1.11. Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Migratory Birds.** This conservation measure applies to all projects. All projects will avoid all impacts on extremely rare plants and fully protected species listed in Table 6-5 of the ECCC HCP/NCCP. See HCP pp. 6-23 to 6-25, and Table 6-5.

APPLIES TO PROJECTS THAT IMPACT COVERED PLANT SPECIES

☐ **Conservation Measure 3.10. Plant Salvage when Impacts are Unavoidable.** This condition applies to projects that cannot avoid impacts on covered plants and help protect covered plants by prescribing salvage whenever avoidance of impacts is not feasible. Project proponents wishing to remove populations of covered plants must notify the Conservancy of their construction schedule to allow the Conservancy the option of salvaging the populations. See HCP pp. 6-48 to 6-50.

APPLIES TO PROJECTS THAT INCLUDE ARE ADJACENT TO STREAMS, PONDS, OR WETLANDS

☒ **Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization.** All projects will implement measures described in the HCP to avoid and minimize impacts on wetlands, ponds, streams, and riparian woodland/scrub. See HCP pp. 6-33 to 6-35.

APPLIES TO NEW DEVELOPMENT PROJECTS

☒ **Conservation Measure 1.10. Maintain Hydrologic Conditions and Minimize Erosion.** All new development must avoid or minimize direct and indirect impacts on local hydrological conditions and erosion by incorporating the applicable Provision C.3 Amendments of the Contra Costa County Clean Water Program's (CCCCWP's) amended NPDES Permit (order no. R2-2003-0022; permit no. CAS002912). The overall goal of this measure is to ensure that new development covered under the HCP has no or minimal adverse effects on downstream fisheries to avoid take of fish listed under ESA or CESA. See HCP pp. 6-21 to 6-22.

APPLIES TO NEW DEVELOPMENT PROJECTS THAT INCLUDE OR ARE ADJACENT TO STREAMS, PONDS, OR WETLANDS

[12] If the preconstruction surveys do not trigger construction monitoring, results of preconstruction surveys should still be submitted to the local jurisdiction and the East Contra Costa County Habitat Conservancy.

☒ **Conservation Measure 1.7. Establish Stream Setbacks.** A stream setback will be applied to all development projects covered by the HCP according to the stream types listed in Table 6-2 of the HCP. See HCP pp. 6-15 to 6-18 and Table 6-2.

APPLIES TO NEW DEVELOPMENT PROJECTS ADJACENT TO EXISTING PUBLIC OPEN SPACE, HCP PRESERVES, OR LIKELY HCP ACQUISITION SITES

☐ **Conservation Measure 1.6. Minimize Development Footprint Adjacent to Open Space.** Project applicants are encouraged to minimize their development footprint and set aside portions of their land to contribute to the HCP Preserve System. Land set aside that contributes to the HCP biological goals and objectives may be credited against development fees. See HCP pages 6-14 to 6-15.

☐ **Conservation Measure 1.8. Establish Fuel Management Buffer to Protect Preserves and Property.** Buffer zones will provide a buffer between development and wildlands that allows adequate fuel management to minimize the risk of wildlife damage to property or to the preserve. The minimum buffer zone for new development is 100 feet. See HCP pages 6-18 to 6-19.

☐ **Conservation Measure 1.9. Incorporate Urban-Wildlife Interface Design Elements.** These projects will incorporate design elements at the urban-wildlife interface to minimize the indirect impacts of development on the adjacent preserve. See HCP pp. 6-20 to 6-21.

APPLIES TO ROAD MAINTENANCE PROJECTS OUTSIDE THE UDA

☐ **Conservation Measure 1.12. Implement Best Management Practices for Rural Road Maintenance.** Road maintenance activities have the potential to affect covered species by introducing sediment and other pollutants into downstream waterways, spreading invasive weeds, and disturbing breeding wildlife. In order to avoid and minimize these impacts, BMPs described in the HCP will be used where appropriate and feasible. See HCP pp. 6-25 to 6-26.

APPLIES TO NEW ROADS OR ROAD IMPROVEMENTS OUTSIDE THE UDA

☐ **Conservation Measure 1.14. Design Requirements for Covered Roads Outside the Urban Development Area (UDA).** New roads or road improvements outside the UDA have impacts on many covered species far beyond the direct impacts of their project footprints. To minimize the impacts of new, expanded, and improved roads in agricultural and natural areas of the inventory area, road and bridge construction projects will adopt siting, design, and construction requirements described in the HCP and listed in Table 6-6. See HCP pp. 6-27 to 6-33 and Table 6-6.

APPLIES TO FLOOD CONTROL MAINTENANCE ACTIVITIES

☐ **Conservation Measure 1.13. Implement Best Management Practices for Flood Control Facility Maintenance.** Flood control maintenance activities have the potential to affect covered species by introducing sediment and other pollutants into downstream waterways and disturbing breeding wildlife. In order to avoid and minimize these impacts, BMPs described in the HCP will be used where appropriate and feasible. See HCP pp. 6-26 to 6-27.

2) For all checked conservation measures, describe how the project will comply with each measure. Attach as Attachment C: Project Compliance to HCP Conditions.

VI. MITIGATION MEASURES

1) Mitigation Fee Calculator(s)
Complete and attach the fee calculator (use permanent and/or temporary impact fee calculator as appropriate), and attach as **Attachment D: Fee Calculator(s)**.

2) Briefly describe the amount of fees to be paid and when applicant plans to submit payment.

The 8.66+/- acre site is within Fee Zone 2. Based on 2020 rates, the fees can be estimated as follows:

8.28 acres of permanent impacts at a cost of $34,279.99 per acre = $283,838.32

0.38 acres of urban/previously developed land a cost of $0.00 per acre = $0.00

Total = $283,838.32

Construction is expected to commence in 2021 and continue through 2022. The fees will be paid prior to the start of construction at the current fee in place at that time.

ATTACHMENT A: PROJECT DESCRIPTION

Diablo Meadows

Project Description
July 2020

The 8.66+/- acre project site is located along the west side of Mitchell Canyon Road in Clayton, Contra Costa County, California. The site is within Section 14, in Township 1 North, Range 1 West of the USGS 7.5-minute Clayton topographic quadrangle (Figure 1).

DeNova Homes, Inc. proposes the development of 18 single-family residential units in the site, each with a home and ancillary services (Figure 2c). Access to the site will be from Mitchell Canyon Road.

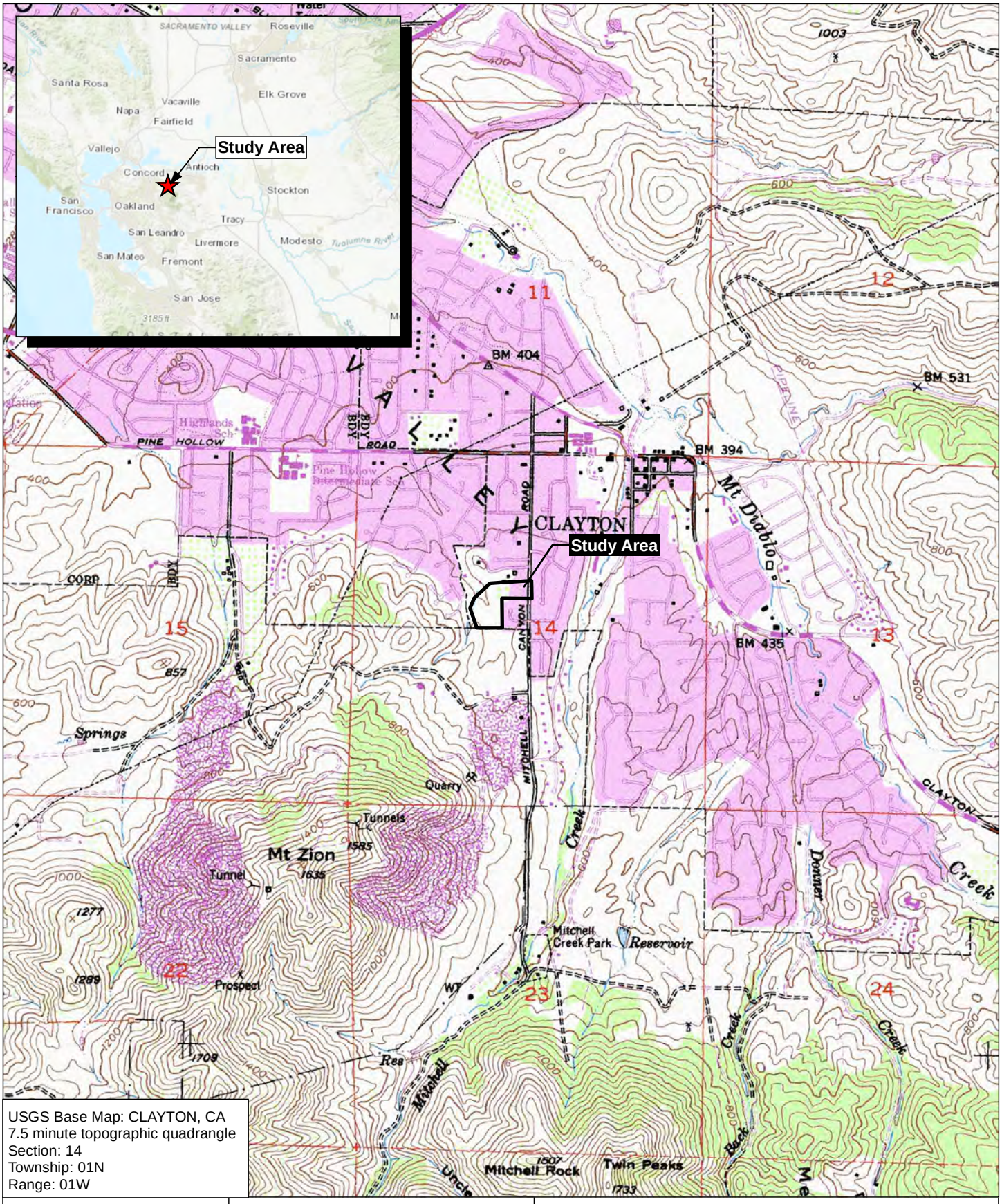
The proposed project will connect to existing City infrastructure to provide sewer and water to the site. Storm water from the east part of the site will be detained in a water quality treatment basin in the northeast part of the prior to its discharge into the City's storm drain system (Figure 2d). Storm water from the west part of the subdivision will be detained in a second water quality treatment basin along the north edge of site and will be discharged on the hillside adjacent to the on-site wetland swale.

The project includes approximately 4 acres of land will remain in open space, including the ephemeral creeks and adjacent 25+/-foot stream setback lands. The open space areas also contain the entire seasonal wetland swale in the site and adjacent lands extending 25 feet or more upslope of the seasonal wetland (Figure 2e)

Standard construction best management practices (BMPs) will be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs will include use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydrolmulch.

Construction is expected to begin 2021 and is expected to continue through 2022.

ATTACHMENT B: FIGURES



USGS Base Map: CLAYTON, CA
7.5 minute topographic quadrangle
Section: 14
Township: 01N
Range: 01W

Figure 1

0 1,000 2,000
Feet
1 inch = 2,000 feet

N
W E
S

Map Date: 07/28/2020

Site Map/USGS

Diablo Meadows

City of Clayton, Contra Costa County, CA

Moore Biological Consultants

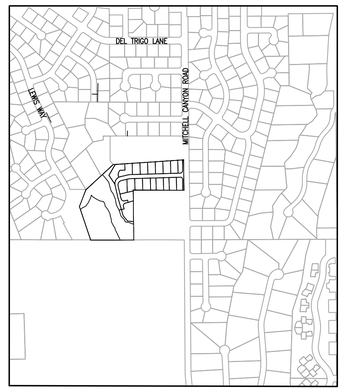
C:\Users\owner\Documents\EEC_INC\Projects\Moore Biological\Diablo Canyon\MXD\diablo_canyon_eccp_figure_1.mxd

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

NOTES AND SECTIONS
SCALE: AS SHOWN APRIL, 2020



SITE PLAN
SCALE: 1" = 60'



VICINITY MAP
SCALE: 1"=500'

BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

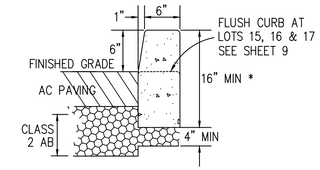
TITLE REPORT:
FIRST AMERICAN TITLE COMPANY, ORDER NO. 0131-623819ALA
DATED: DECEMBER 13, 2019 AMENDED: JANUARY 27, 2020

LEGEND

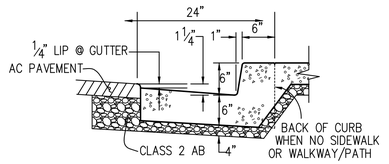
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		CURB AND GUTTER (TYPE AS NOTED)
		CENTERLINE
		UTILITY LINE (TYPE & SIZE AS NOTED)
		MANHOLE
		STORM DRAIN PIPE
		STORM DRAIN INLET
		WATER MAIN
		FIRE HYDRANT
		BLOW OFF
		ELECTROLIER
777.0	TC 777.70	CONTOURS SPOT ELEVATIONS

ABBREVIATIONS:

AB	AGGREGATE BASE	JT	JOINT TRENCH
AC	ASPHALT CONCRETE	LP	LOW POINT
CL	CENTER LINE	MH	MANHOLE
CB	CATCH BASIN	PL	PROPERTY LINE
CO	CLEAN OUT	PUE	PUBLIC UTILITY EASEMENT
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
EX	EXISTING	R/W	RIGHT OF WAY
FC	FACE OF CURB	SD	STORM DRAIN
FF	FINISHED FLOOR	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSCO	SANITARY SEWER CLEANOUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	TC	TOP OF CURB
GR	GRATE ELEVATION	TFC	TOP OF FLUSH CURB
HP	HIGH POINT	TYP	TYPICAL
		W	WATER LINE



6" VERTICAL CURB & FLUSH CURB
NOT TO SCALE



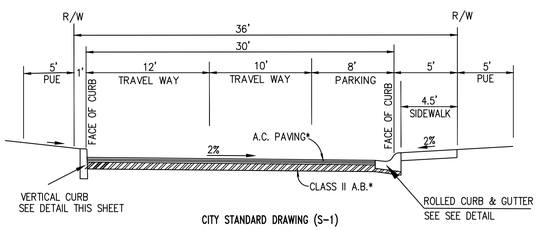
STANDARD C1-1 CURB, GUTTER & WALK
SEE CITY STANDARD PLAN C1-1 FOR DETAILS
NOT TO SCALE

GENERAL NOTES

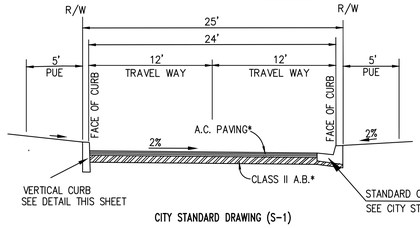
1. OWNER: THE FRED CLAYTON TRUST
   DEVELOPER: DENOVA HOMES, 1500 WILLOW PASS COURT, CONCORD, CA 94520, CONTACT: TRENT SANSON
   CIVIL ENGINEER : MERIDIAN ASSOCIATES, INC., 1300A WILLOW PASS COURT, CONCORD, CA. 94520, CONTACT: HOMAYUN KARIM
   SOILS ENGINEER : STEVENS, FERRONE & BAILEY, 1600 WILLOW PASS COURT, CONCORD, CA 94520, (PROJECT NO. 155-90 DATED: FEBRUARY 28, 2020), CONTACT: KEN FERRONE
2. ASSESSOR'S PARCEL NUMBERS : 121-090-011-2 AND 121-090-016-1
3. EXISTING LAND USE : VACANT
4. PROPOSED LAND USE : SINGLE FAMILY RESIDENTIAL
5. SITE AREA : GROSS AREA FOR ALL PARCELS: 8.68 ACRES±, NET ACREAGE INCLUDED IN PUD: 4.61 ACRES±
6. NUMBER OF LOTS : 18 RESIDENTIAL LOTS & 5 PARCELS
7. GENERAL PLAN : LOW DENSITY RESIDENTIAL (3.1 TO 5.0 UNITS/AC)
8. EXISTING ZONING : R-15
   PROPOSED ZONING: PUD
9. DENSITY (ALLOWED): 3.1 – 5.0 UNITS/AC
   DENSITY PROPOSED: NET DENSITY IN PUD: 3.9 UNITS/ACRE
10. UTILITY PROVIDERS
    WATER : CONTRA COSTA WATER DISTRICT (CCWD)
    GAS & ELECTRIC : PACIFIC GAS & ELECTRIC
    SEWER : CITY OF CONCORD
    TELEPHONE : ATT
    CABLE: COMCAST CABLE
    ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND. ALL STORM DRAINS, SANITARY SEWERS AND WATER MAINS SHALL ADHERE TO THE MINIMUM SIZES SLOPES, AND SPECIFICATIONS OF THE GOVERNING AGENCY'S STANDARDS.
11. TOPOGRAPHY: EXISTING TOPOGRAPHY PROVIDED BY VERTICAL MAPPING RESOURCES AND A FIELD SURVEY BY MERIDIAN ASSOCIATES, INC. DATED AUGUST 8, 2019. CONTOUR INTERVAL IS 1 FOOT.
12. BOUNDARY: BOUNDARY AS SHOWN IS BASED ON RECORD INFORMATION ONLY. FINAL BOUNDARY SHALL BE BASED ON A FIELD SURVEY.
13. STREETS: ALL PROPOSED NEW STREETS ARE PUBLIC
14. FLOOD ZONE: THE SITE IS DESIGNATED AS ZONE X (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FEMA FIRM MAP PANEL 442 OF 725 (06001C0442G) DATED AUGUST 3, 2009.
15. GRADING: GRADES SHOWN HEREON ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.
16. DIMENSIONS: HOUSE FOOTPRINTS, LOT DIMENSIONS AND AREA(S) SHOWN HEREON ARE APPROXIMATE AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SHEET INDEX

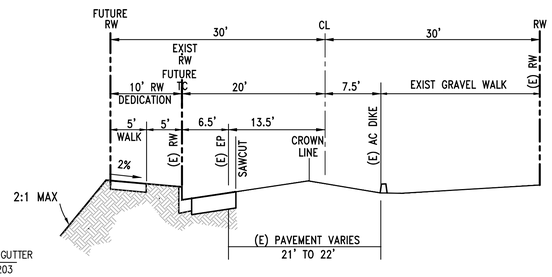
SHEET	DESCRIPTION
C-1	NOTES AND STREET SECTIONS
C-2	BOUNDARY AND EXISTING CONDITION
C-3	GRADING AND DRAINAGE PLAN
C-4	UTILITY PLAN
C-5	PRELIMINARY DEVELOPMENT PLAN
C-6	CONCEPTUAL STORM WATER MANAGEMENT PLAN



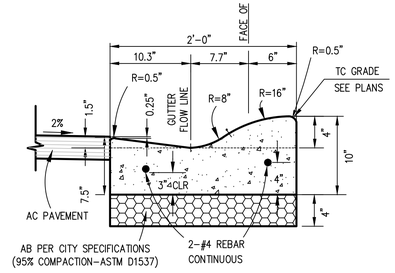
TYPICAL STREET SECTION - 30' CURB TO CURB
NOT TO SCALE



TYPICAL STREET SECTION - 24' CURB TO CURB (NO PARKING)
NOT TO SCALE



MITCHELL CANYON ROAD TYPICAL SECTION
NOT TO SCALE



ROLLED CURB AND GUTTER
NOT TO SCALE

DATE: MARCH, 2020				
SCALE: AS SHOWN				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

NOTES AND STREET SECTIONS

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

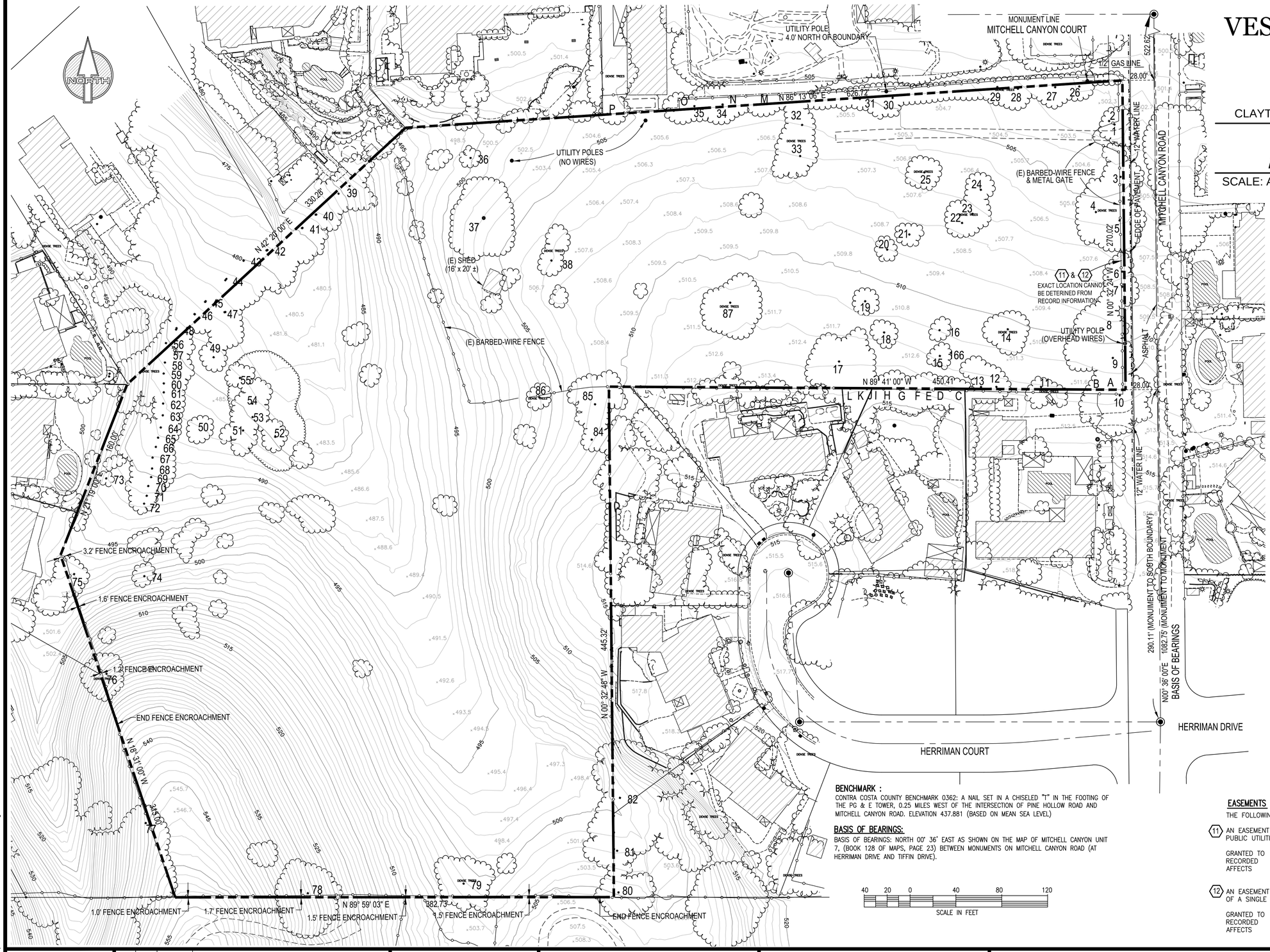
SHEET NO. C-1 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-1 TITLE.dwg Plot Date:7-17-20

FIGURE 2A. NOTES AND STREET SECTIONS

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

BOUNDARY AND EXISTING CONDITION
SCALE: AS SHOWN APRIL, 2020



BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

40 20 0 40 80 120
SCALE IN FEET

LEGEND & ABBREVIATIONS

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EASEMENT
- STORM DRAIN LINE
- SEWER LINE
- FOUND STANDARD CITY STREET MONUMENT
- FOUND SURVEY MONUMENT AS NOTED
- MANHOLE (TYPE AS NOTED)
- CATCH BASIN (ADJACENT TO MANHOLE TYPICAL)
- CATCH BASIN(S)
- WATER VALVE
- STREET LIGHT (PRIVATE)
- STREET LIGHT (PUBLIC)
- UTILITY BOX/VAULT (TYPE AS NOTED)
- 16 • TREE TRUNK LOCATION (SEE ARBORIST REPORT)
- ○ S. SIGN

BFP	BACKFLOW PREVENTER	JP	POWER POLE (JOINT SERVICE)
C.	CONCRETE	SD	STORM DRAIN
CB	CATCH BASIN (STORM DRAIN INLET)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	SF	SQUARE FEET
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL (PG&E)	SS	SANITARY SEWER
(E)	EXISTING	SSMH	SANITARY SEWER MANHOLE
F	FIRE (WATER) SERVICE LINE	T	TELEPHONE (COMMUNICATIONS, SBC, PG&E)
FDC	FIRE DEPARTMENT CONNECTION	W	WATER MAIN
FH	FIRE HYDRANT	WM	WATER METER
G	GAS	WV	WATER VALVE
GV	GAS VALVE		

EASEMENTS (NUMBERING AND LANGUAGE CORRESPONDS WITH THE TITLE REPORT)
THE FOLLOWING EASEMENTS AFFECT PARCEL 1:

(11) AN EASEMENT FOR CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF PUBLIC UTILITIES AND INCIDENTAL PURPOSES.
GRANTED TO : PACIFIC TELEPHONE AND TELEGRAPH COMPANY
RECORDED : SEPTEMBER 16, 1914 IN BOOK 227 OF DEEDS, PAGE 283
AFFECTS : THE NORTHWEST 1/4 OF SECTION 14 (DESCRIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

(12) AN EASEMENT FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF A SINGLE LINE OF POLES, TELEPHONE AND TELEGRAPH LINES AND INCIDENTAL PURPOSES.
GRANTED TO : VALLEY PIPE LINE COMPANY, A CALFORNIA CORPORATION
RECORDED : MAY 20, 1915 IN BOOK 241 OF DEEDS, PAGE 331
AFFECTS : A PORTION OF THE NORTHWEST 1/4 OF SECTION 14 (DESCIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN REDNICK No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
BOUNDARY AND EXISTING CONDITION
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-2 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-2 BOUNDARY AND EXIST COND.dwg Plot Date:7-17-20

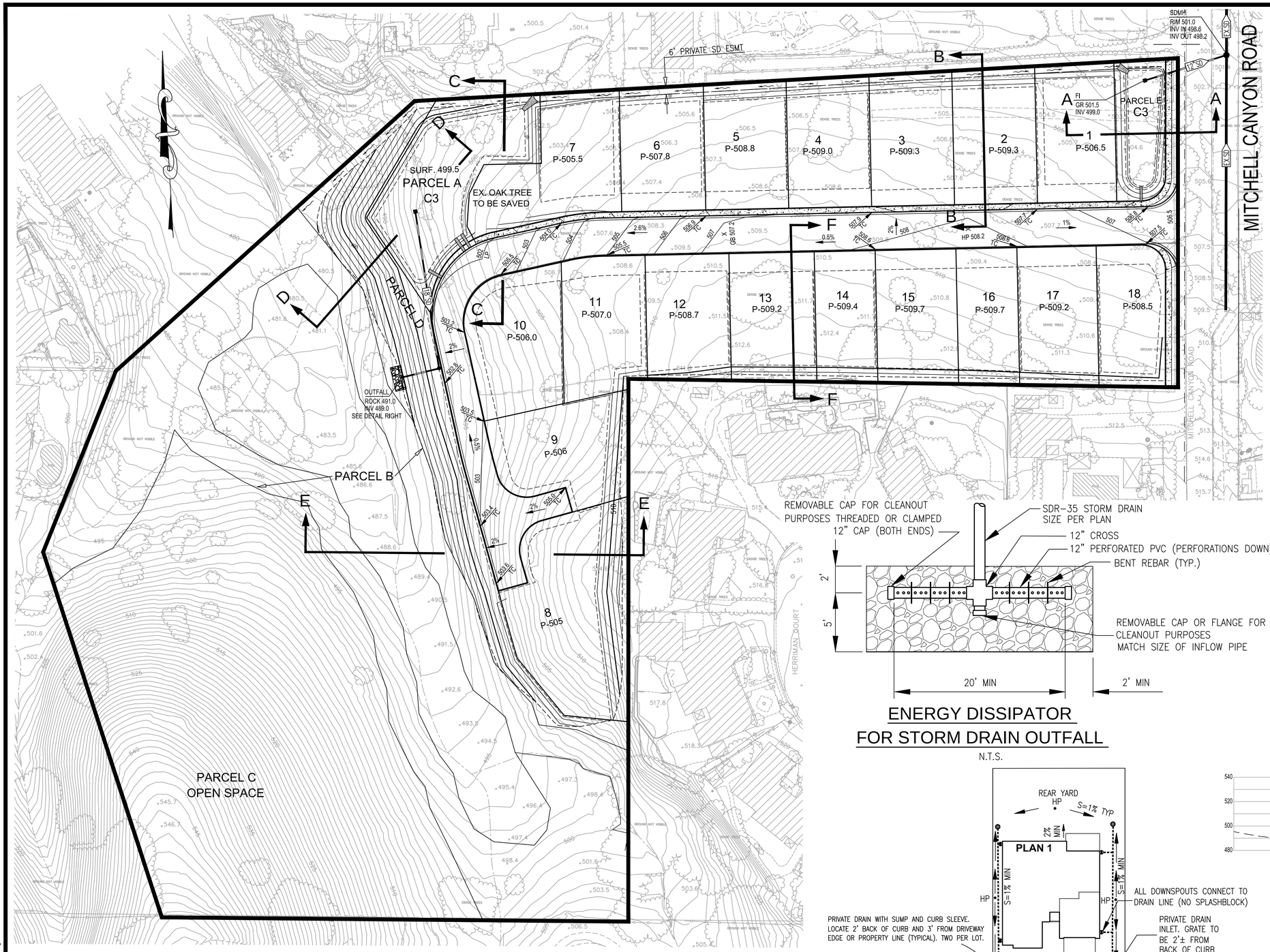
SITE PLAN

FIGURE 2B. BOUNDARY AND EXISTING CONDITION

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY GRADING AND DRAINAGE PLAN

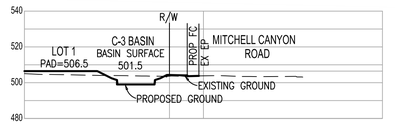
SCALE: AS SHOWN APRIL, 2020



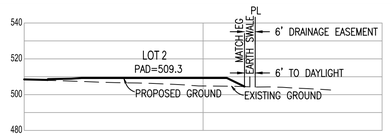
GRADING & DRAINAGE PLAN
SCALE: 1" = 40' HORIZONTAL & VERTICAL

ENERGY DISSIPATOR
FOR STORM DRAIN OUTFALL

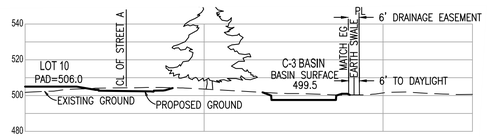
TYPICAL LOT DRAINAGE



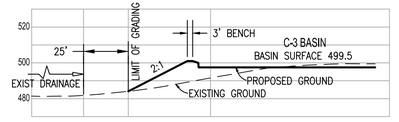
SECTION A-A



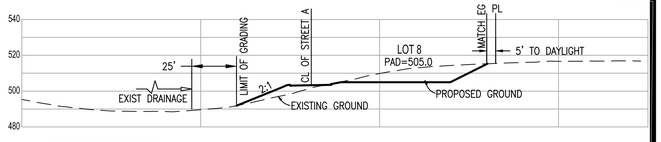
SECTION B-B



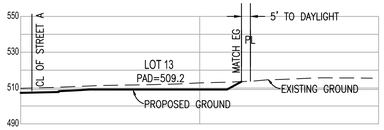
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY GRADING & DRAINAGE PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

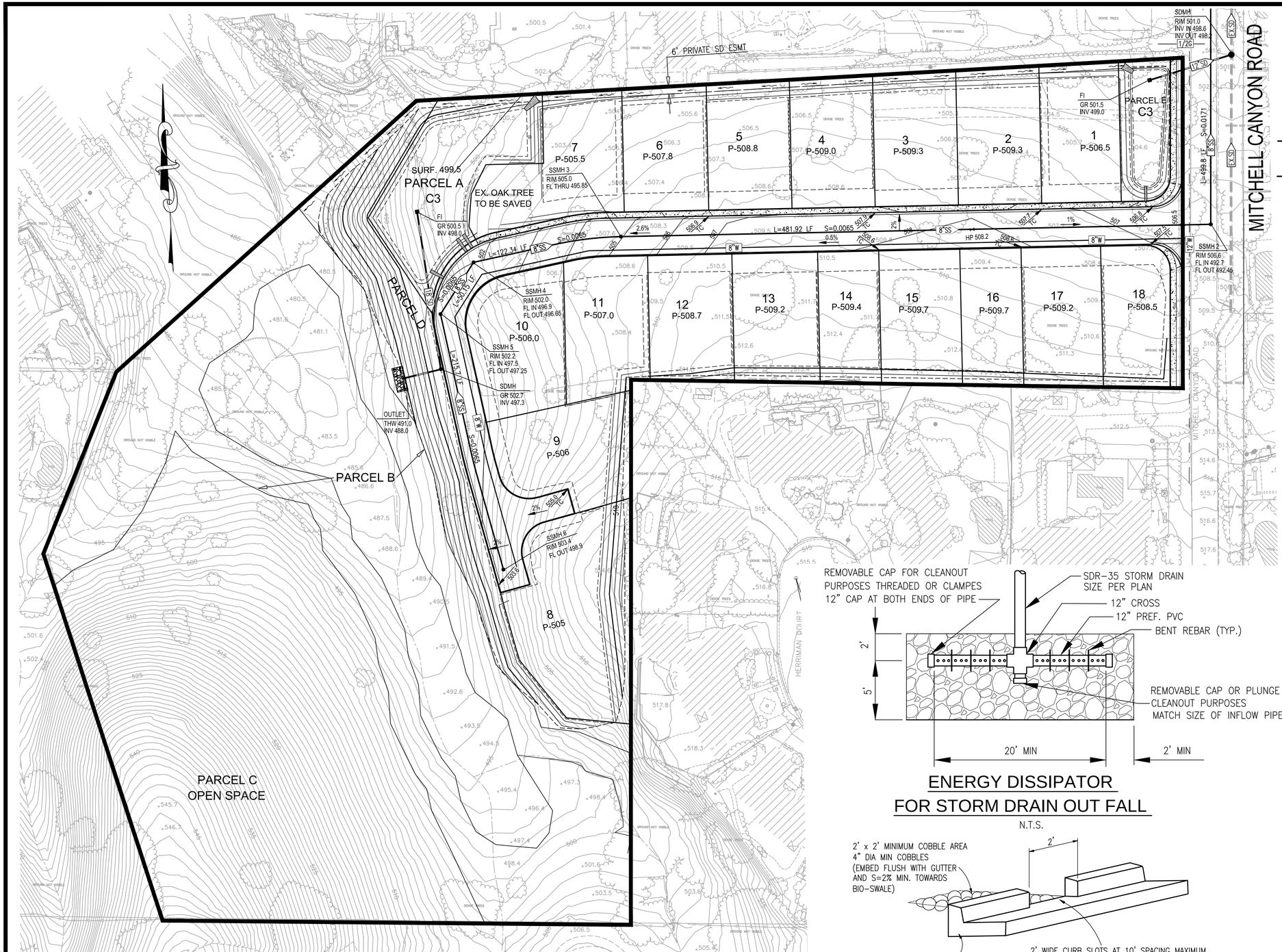
SHEET NO. **C-3** OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-3 GRADING.dwg Plot Date:7-17-20

FIGURE 2C. PRELIMINARY GRADING AND DRAINAGE PLAN

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY UTILITY PLAN
SCALE: AS SHOWN APRIL, 2020

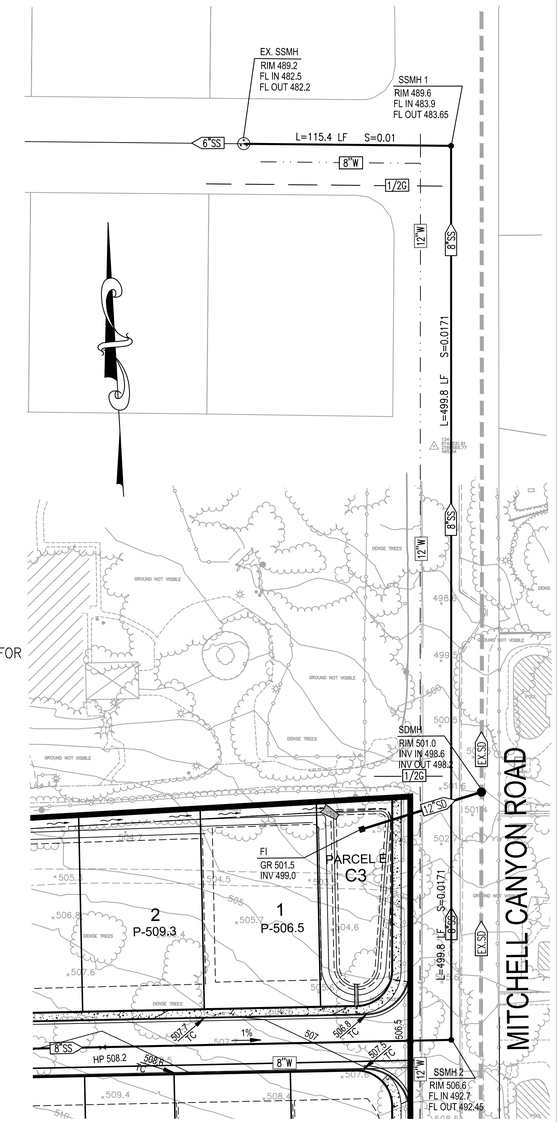


40 20 0 40 80 120
SCALE IN FEET

PRELIMINARY UTILITY PLAN
SCALE: 1" = 40'

ENERGY DISSIPATOR
FOR STORM DRAIN OUT FALL
N.T.S.

TYPICAL CURB SLOT ADJACENT TO BIO-SWALES
NOT TO SCALE



DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
PRELIMINARY UTILITY PLAN
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. **C-4** OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-4 UTILITY.dwg Plot Date:7-17-20

FIGURE 2D. PRELIMINARY UTILITITY PLAN

VESTING TENTATIVE MAP

FOR

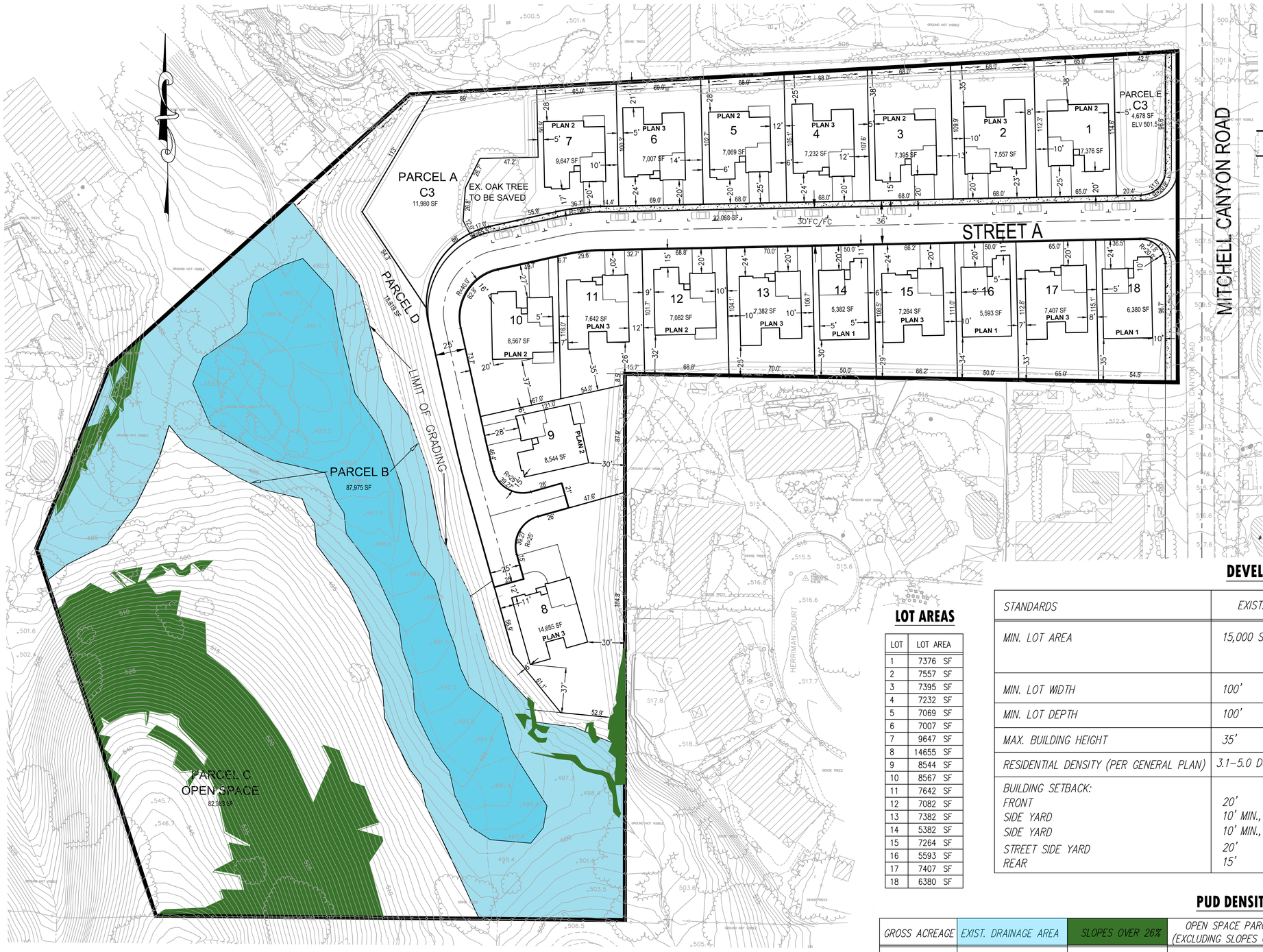
SUBDIVISION 9538

DIABLO MEADOWS

CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY DEVELOPMENT PLAN

SCALE: AS SHOWN APRIL, 2020



PRELIMINARY DEVELOPMENT PLAN

SCALE: 1" = 40'

SUMMARY OF PRODUCT TYPE & SETBACKS

PLAN TYPE	NUMBER OF UNITS	MINIMUM SETBACKS			
		FRONT		SIDES	REAR
		LIVING AREA	GARAGE		
1	3	10'	20'	5'/5'	15'
2	7	10'	20'	5'/10'	15'
3	8	10'	20'	5'/10'	15'
TOTAL	18				

PARKING SUMMARY

PARKING TYPE	NUMBER OF SPACES
*ON STREET	15
DRIVEWAY	36
GARAGE	36
TOTAL	87

* PARALLEL PARKING DIMENSION IS 8'x22'

PARCEL AREAS

PARCEL	AREA	
A	0.28 AC	C3 BASIN
B	2.02 AC	EXIST. DRAINAGE AREA
C	1.91 AC	OPEN SPACE
D	0.43 AC	OPEN SPACE
E	0.11 AC	C3 BASIN
LOTS 1–18	3.19 AC	SINGLE FAMILY
STREET R/W	0.74 AC	
TOTAL	8.68 AC	

LOT AREAS

LOT	LOT AREA
1	7376 SF
2	7557 SF
3	7395 SF
4	7232 SF
5	7069 SF
6	7007 SF
7	9647 SF
8	14655 SF
9	8544 SF
10	8567 SF
11	7642 SF
12	7082 SF
13	7382 SF
14	5382 SF
15	7264 SF
16	5593 SF
17	7407 SF
18	6380 SF

DEVELOPMENT STANDARDS

STANDARDS	EXIST. R–15	PROPOSED (REZONE)
MIN. LOT AREA	15,000 SQ. FT.	5,000 SQ. FT (LOTS 14, 16 & 18) 7,000 SQ. FT (LOTS 1–13, 15 & 17 7,741 SQ. FT. (AVG)
MIN. LOT WIDTH	100'	50' (LOTS 14, 16 & 18 ONLY) TYPICAL LOT WIDTH APPROX. 65'
MIN. LOT DEPTH	100'	90' (TYPICAL LOT DEPTH APPROX. 100')
MAX. BUILDING HEIGHT	35'	35'
RESIDENTIAL DENSITY (PER GENERAL PLAN)	3.1–5.0 DU/NET ACRE (MD)	3.90 DU/NET ACRE
BUILDING SETBACK: FRONT SIDE YARD SIDE YARD STREET SIDE YARD REAR	 20' 10' MIN., 25' AGGREGATE 10' MIN., 25' AGGREGATE 20' 15'	 20' GAR / 10' LIVING AREA (VARIES BETWEEN 11'–24') 5' MIN., 10' AGGREGATE (LOTS 14, 16 & 18) 5' MIN., 15' AGGREGATE (LOTS 1–13, 15 & 17) 10' 15' (TYPICAL REAR SETBACK/YARD IS GREATER RHAN 20')

PUD DENSITY TABLE

GROSS ACREAGE	EXIST. DRAINAGE AREA	SLOPES OVER 26%	OPEN SPACE PARCEL C (EXCLUDING SLOPES OVER 26%)	*NET ACREAGE	NO. OF UNITS	DU/GROSS ACRE	DU/*NET ACRE
8.68± AC	2.02± AC	0.87± AC	1.17± AC	*4.62± AC	18	DU/AC	3.9 DU/AC

* NET ACREAGE INCLUDES STREETS, OPEN SPACE PARCEL D (AREAS LESS THAN 26% SLOPE), AND C–3 BASINS AREAS PER MUNI CODE 17.22

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY DEVELOPMENT PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-5 OF 6 SHEETS

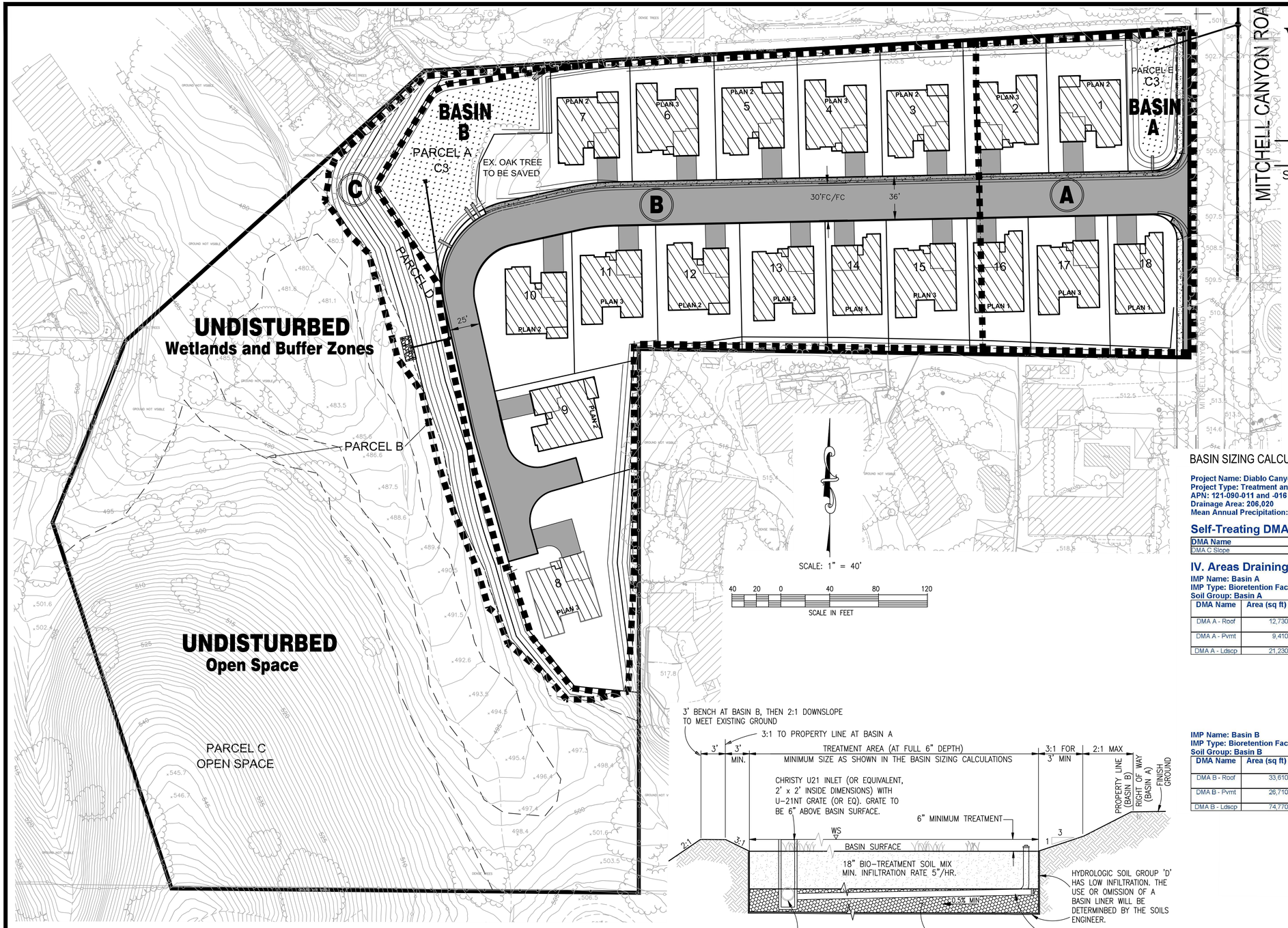
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-5 DEVELOPMENT PLAN.dwg Plot Date:7-17-20

FIGURE 2E. PRELIMINARY DEVELOPMENT PLAN

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

STORMWATER CONTROL PLAN
SCALE: AS SHOWN APRIL, 2020



PLAN VIEW
SCALE: 1" = 40'

BIORETENTION BASIN - TYPICAL SECTION
NOT TO SCALE

LEGEND

- A — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PAVEMENT
- ROOFTOPS (INCLUDES WALKS AND PATIOS)
- LANDSCAPE (NO HATCH)
- RETENTION AREA (BASIN)

BASIN SIZING CALCULATIONS

Project Name: Diablo Canyon
Project Type: Treatment and Flow Control
APN: 121-090-011 and -016
Drainage Area: 206,020
Mean Annual Precipitation: 18.7

Self-Treating DMAs

DMA Name	Area (sq ft)
DMA C Slope	17,690.0

IV. Areas Draining to IMPs

IMP Name: Basin A
IMP Type: Bioretention Facility
Soil Group: Basin A

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA A - Roof	12,730	Conventional Roof	1.00	12,730
DMA A - Pvmt	9,410	Concrete or Asphalt	1.00	9,410
DMA A - Ldscp	21,230	Landscape	0.70	14,861
			Total	37,001

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	1,972	1,980
Surface Volume	0.042	1.066	1,657	1,660
Subsurface Volume	0.055	1.066	2,169	2,180
Maximum Underdrain Flow (cfs)				0.07
Orifice Diameter (in)				1.73

IMP Name: Basin B
IMP Type: Bioretention Facility
Soil Group: Basin B

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA B - Roof	33,610	Conventional Roof	1.00	33,610
DMA B - Pvmt	26,710	Concrete or Asphalt	1.00	26,710
DMA B - Ldscp	74,770	Landscape	0.70	52,339
			Total	112,659

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	6,005	7,870
Surface Volume	0.042	1.066	5,044	5,050
Subsurface Volume	0.055	1.066	6,605	6,620
Maximum Underdrain Flow (cfs)				0.23
Orifice Diameter (in)				3.06

SWCP FIGURE A

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER — JOHN RZONCA — No. C38710 EXP: 3/31/2021 — CIVIL — STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY STORMWATER CONTROL PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-6 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-6 SWCP.dwg Plot Date:7-17-20

FIGURE 2F. PRELIMINARY STORMWATER CONTROL PLAN

Butternut Way
Lewis Way
Mitchell Canyon Ln
Kenston Dr
Mitchell Canyon Rd
Herriman Ct
Herriman Dr

Figure 3

Project Site (8.66 ac.)
Stream (0.02 ac.)
Annual Grassland (8.07 ac.)
Seasonal Wetland (0.19 ac.)
Urban (0.38 ac.)

N
W E
S

0 100 200

Field Verified Landcover Map

Diablo Meadows

City of Clayton, Contra Costa County, CA

Moore Biological Consultants

Map Date: 07/28/2020
Aerial Source: Google Earth (08/2017)

C:\Users\owner\Documents\FEC_INC\Projects\Moore Biological\Diablo Canyon\MXD\diablo canyon ecco figure 3.mxd



Annual grassland in the southwest part of the site, looking southwest; 04/03/20. The site was historically an orchard and there are remnant stumps from the orchard trees in the grasslands. This part of the site will remain in open space.



Annual grassland in the southeast part of the site, looking north; 04/03/20.

FIGURE 4a

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Annual grassland in the northeast part of the site, looking west from Mitchell Canyon Road; 04/03/20. There are trees along the edges of the site and scattered trees in the grasslands.



Mitchell Canyon Road along the east edge of the site, looking north from near the southeast corner of the site; 04/03/20.

FIGURE 4b

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Annual grassland and a valley oak in the northeast part of the site, looking west; 04/03/20. The relatively large trees in the site could be used by a variety of birds for nesting. No active raptor nests were observed during the April 2020 surveys.



One of several ground squirrel burrows in the site; 04/03/20. The burrows were inspected for evidence of burrowing owl occupancy and none was observed.

FIGURE 4c

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Seasonal wetland in the west-central part of the site, looking northwest; 04/03/20. The approximate edges of the swale are noted with dashed lines. The seasonal wetland has directional flow and is best classified as a seasonal wetland swale.



Deep pocket in the swale a bit further north, looking north 04/03/20. This low area appears to hold water for several days or a few weeks after rain events. There is a patch of cocklebur in this low area.

FIGURE 4d

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



North end of the seasonal wetland, looking north at the fence along the edge of the site; 04/03/20. There is an incised channel in the north 20+/- feet of the wetland that is about 2 feet wide.



Ephemeral creek along the west edge of the site, looking south; 04/03/20. The creek is only 1 to 2 feet wide, yet is mapped as a "blue-line" stream on the USGS topographic map. The seasonal wetland swale is tributary to the creek north of the site.

FIGURE 4e

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Figure 5a

Moore Biological Consultants

Project Site (8.66 ac.)

Stream (0.02 ac.)

Seasonal Wetland (0.19 ac.)

Urban (0.38 ac.)

Annual Grassland (8.07 ac.); assumed habitat for San Joaquin kit fox and western burrowing owl

Tree; potential nest site for white-tailed kite and Golden eagle

N W E S

0 100 200

Map Date: 07/28/2020
Aerial Source: Google Earth (08/2017)

Planning Survey Species Habitat Map

Diablo Meadows

City of Clayton, Contra Costa County, CA

x:\Moore Biological\Diablo Canyon\MXD\diablo canyon ecco figure 5a.mxd

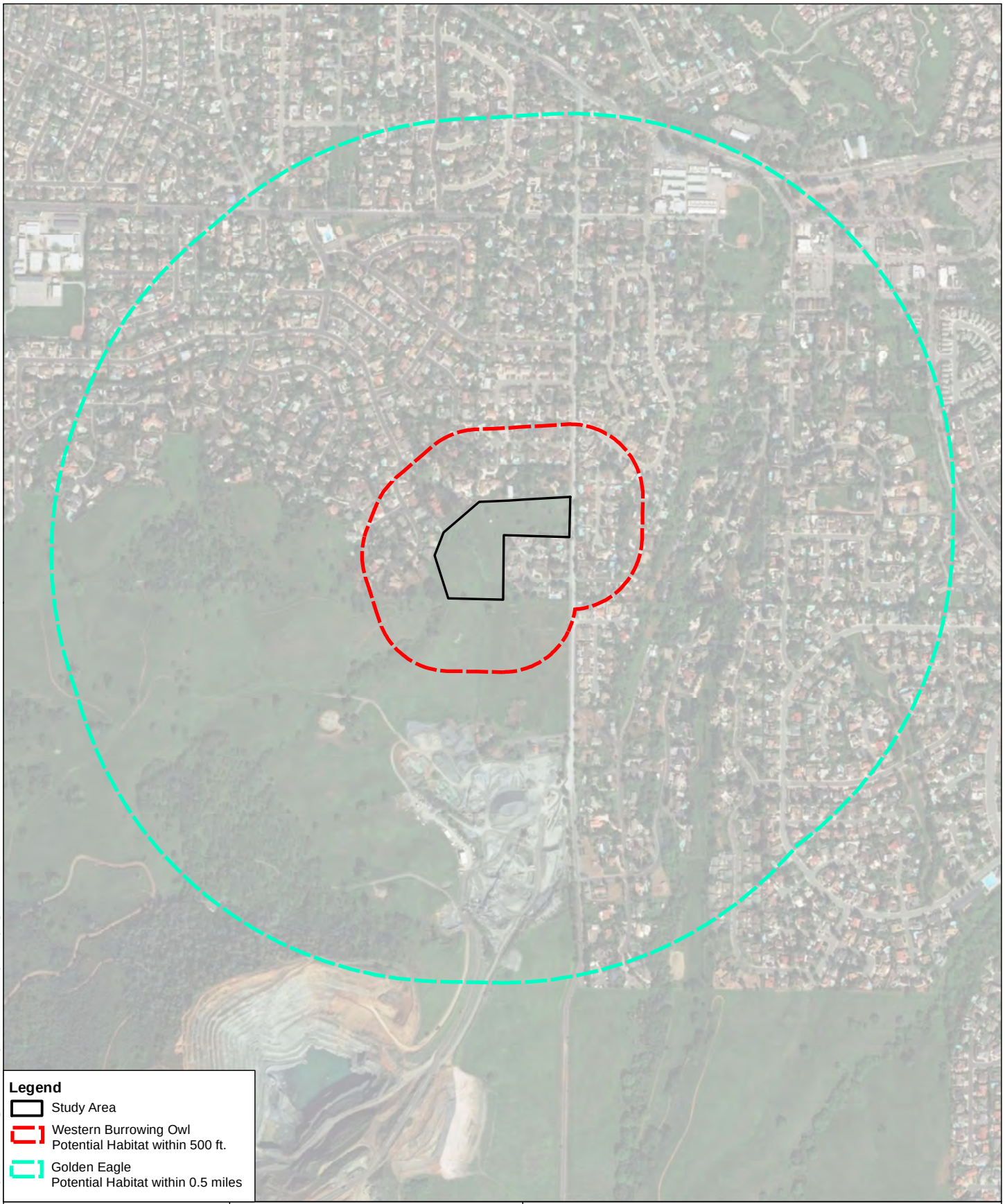


Figure 5b

Moore Biological Consultants

0 500 1,000

N W E S

Map Date: 07/28/2020
Aerial Photo: DigitalGlobe (2018)

Regional Species Habitat Map

Diablo Meadows

City of Clayton, Contra Costa County, CA

C:\Users\owner\Documents\FEC_INC\Projects\Moore Biological\Diablo_Canyon\MXD\diablo_canyon_ecccp_figure_5b.mxd

ATTACHMENT C: PROJECT COMPLIANCE TO HCP CONDITIONS

Diablo Meadows
Project Compliance to HCP Conditions
July 2020

HCP/NCCP Conservation Measure 1.11. Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Covered Migratory Birds:

The potential for special-status plants to occur within the site is considered extremely remote, as described in Section III (10).

Species-specific pre-construction surveys, and if needed, monitoring and avoidance requirements for burrowing owl, San Joaquin kit fox, and golden eagle will be conducted as described in Section IV (2). There is no suitable habitat in the site for ringtail (*Bassariscus astutus*), a "fully protected species," per California Fish and Game Code Section 4700. Similarly, there is no suitable nesting habitat in the site for peregrine falcon (*Falco peregrinus*), a "fully protected species," per California Fish and Game Code Section 3511.

White-tailed kite (*Elanus caeruleus*), another "fully protected species," per California Fish and Game Code Section 3511 could potentially nest in trees in and near the site. Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

On-site grasslands and shrubs could be used by other species of nesting birds protected by the Migratory Bird Treaty Act. If possible, vegetation removal will occur outside of the general bird nesting season (February 1 through August 31). Alternately, a qualified biologist will conduct a preconstruction survey no more than 2 weeks prior to vegetation removal. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

HCP/NCCP Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization:

Potentially jurisdictional Waters of the U.S. and wetlands in the site are being fully avoided. The two ephemeral streams on the site will not be impacted by the project. A 25-foot stream setback will be implemented along both ephemeral streams. The seasonal wetland swale will also not be impacted by the project. A 25-foot buffer will be implemented along the seasonal wetland swale.

The following measures from pages 6-33 through 6-35 will be implemented avoid and minimize impacts of covered activities on wetlands:

- The project will comply with the stream setback requirements in Conservation

Measure 1.7.

- The project will comply with the guidelines in Conservation Measure 1.10 to minimize the effects of urban development on downstream hydrology, streams, and wetlands.
- All wetlands to be avoided by covered activities will be temporarily staked in the field by a qualified biologist.
- The project will establish a buffer zone between the ephemeral streams and development as described in Conservation Measure 1.7. A 25-foot buffer will be implemented along the seasonal wetland swale.
- Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the of the ephemeral streams or the seasonal wetland swale will be trained by a qualified biologist in these avoidance and minimization measures and the permit obligations of project proponents working under the ECCCHCP. Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas.
- Trash generated during project construction will be promptly and properly removed from the site.
- No construction or maintenance vehicles will be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill.
- Appropriate erosion-control measures (e.g., fiber rolls, filter fences, vegetative buffer strips) will be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh will be of material that will not entrap reptiles and amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians.
- Fiber rolls used for erosion control will be certified as free of noxious weed seed.
- Seed mixtures applied for erosion control will not contain invasive non native species, and will be composed of native species or sterile nonnative species.
- Herbicides will not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In this case, herbicides that have been approved for use by EPA in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides may be applied to the ruderal grassland within the buffer area during the dry season to control nonnative invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.

HCP/NCCP Conservation Measure 1.10. Maintain Hydrologic Conditions and Minimize Erosion:

The project has been designed to maintain hydrologic conditions and minimize erosion. Site drainage will be conveyed to a municipal storm drain system. Standard construction best management practices (BMPs) will be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs will include use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

HCP/NCCP Conservation Measure 1.7. Establish Stream Setbacks:

A stream is defined in Chapter 3 of the ECCCHCP as "a long, narrow body of flowing water that occupies a channel with defined bed and bank and moves to lower elevations under the force of gravity".

The ephemeral streams in the site will not be impacted by the project. A 25-foot stream setback will be implemented along the ephemeral streams. A 25-foot buffer will also be implemented along the seasonal wetland swale

Stream setbacks are designed to protect existing habitat quality, to protect water quality and hydrologic processes through buffering, and allow for at least minimal restoration (page 6-16). The stream setback measure is intended to achieve several purposes as listed on pages 6-16 and 6-17 of the ECCCHCP, along a variety of stream types. Six of the seven purposes have applicability to the project:

- Maintain or improve water quality by filtering sediments and pollutants from urban runoff before they reach the stream,
- Maintain and enhance the water quality of the stream to protect native fish populations, including populations of special-status species that occur in downstream creeks,
- Maintain a more viable wildlife corridor for some species (e.g., California red-legged frog, foothill yellow-legged frog) than would be present with a narrower buffer zone, and
- Maximize the natural flood protection value of the floodplain.

ATTACHMENT D: FEE CALCULATOR

ECCC HCP/NCCP 2020 Fee Calculator Worksheet
Permanent Impacts

PROJECT APPLICANT: DeNova Homes, Inc.

PROJECT NAME: Diablo Meadows

APN(s): 121-090-016-1 and 121-090-011-2

JURISDICTION: Clayton

DATE: July 2020

DEVELOPMENT FEE		**ACREAGE PERMANENTLY IMPACTED (TABLE 1)[1]**		**2020 FEE PER ACRE (SUBJECT TO CHANGE)[2]**		
See appropriate ordinance or HCP/NCCP Figure 9-1 to determine Fee Zone	Fee Zone 1		x	$17,139.99	=	$0.00
	Fee Zone 2	8.28	x	$34,279.99	=	$283,838.32
	Fee Zone 3		x	$8,570.72	=	$0.00
				Development Fee Total	=	**$283,838.32**

WETLAND MITIGATION FEE		**ACREAGE PERMANENTLY IMPACTED (TABLE 1)[1]**		**2020 FEE PER ACRE (SUBJECT TO CHANGE)[2]**		
	Riparian woodland / scrub		x	$84,239.66	=	$0.00
	Perennial Wetland		x	$115,275.32	=	$0.00
	Seasonal Wetland		x	$249,763.19	=	$0.00
	Alkali Wetland		x	$236,462.19	=	$0.00
	Ponds		x	$125,620.54	=	$0.00
	Aquatic (open water)		x	$63,549.21	=	$0.00
	Slough / Channel		x	$143,355.21	=	$0.00
	STREAMS	**LINEAR FEET PERMANENTLY IMPACTED (TABLE 1)**		**2020 FEE PER LINEAR FT (SUBJECT TO CHANGE)[2]**		
	Streams 25 feet wide or less		x	$686.78	=	$0.00
	Streams greater than 25 feet wide		x	$1,034.52	=	$0.00
				Wetland Mitigation Fee Total	=	**$0.00**

FEE REDUCTION[3]		
	Development Fee reduction for land in lieu of fee	=	
	Development Fee reduction (up to 33%) for permanent assessments	=	
	Wetland Mitigation Fee reduction for wetland restoration/creation performed by applicant	=	
	Reduction Total	=	**$0.00**

FINAL FEE CALCULATION			
	Development Fee Total		$283,838.32
	Wetland Mitigation Fee Total	+	$0.00
	Fee Subtotal	=	**$283,838.32**
	Contribution to Recovery	+	
	TOTAL AMOUNT TO BE PAID	=	**$283,838.32**

[1] City/County planning staff will consult the land cover map in the Final HCP/NCCP and will reduce the acreage subject to the Development Fee by the acreage of the subject property that was identified in the Final HCP/NCCP as urban, turf, landfill or aqueduct land cover.

[2] Development Fees are adjusted annually according to a formula that includes both a Home Price Index (HPI) and a Consumer Price Index (CPI). The Wetland Mitigation Fees are adjusted according to a CPI. The Conservancy conducted the 2013 periodic fee audit required by the HCP/NCCP. Action by the County and participating cities is pending, which could result in adjustments to some or all fees in 2020.

[3] Fee reductions must be reviewed and approved by the Conservancy.

Template date: March 3, 2020

ATTACHMENT E: WETLAND DELINEATION



Data Disclaimer:
The delineation has been done in accordance with the 1987 Wetlands Delineation Manual, US Army Corps of Engineers and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region. The boundaries and jurisdictional status of all waters shown on this map are preliminary and subject to verification by the U.S. Army Corps of Engineers.

Aerial Source: DigtialGlobe (2019); Google Earth (06/2018)

Moore Biological Consultants

N

0 50 100

1 inch = 100 feet

Study Area (8.66 acres)

▲- 1 3-Parameter Data Point

Seasonal Wetland (SW-1) - 0.19 ac / 8,073 sf

Ephemeral Stream (ES-1) - 0.01 ac / 348 sf

(ES-2) - 0.01 ac / 244 sf

Potential Waters of the U.S. and Wetlands

Diablo Meadows

City of Clayton, Contra Costa County, CA

Map Date: 07/28/2020

Appendix C
Geotechnical Investigation

Stevens Ferrone & Bailey
Engineering Company, Inc

February 28, 2020

GEOTECHNICAL INVESTIGATION
MITCHELL CANYON DEVELOPMENT
CLAYTON, CALIFORNIA
SFB PROJECT NO. 155-90

Prepared For:

DeNova Homes
1500 Willow Pass Court
Concord, CA 94520

Prepared By:

Stevens, Ferrone & Bailey Engineering Company, Inc.



Jonathan Bailey, P.E., G.E.
Civil/Geotechnical Engineer



Kenneth C. Ferrone, P.E., G.E., C.E.G.
Civil/Geotechnical Engineer
Certified Engineering Geologist





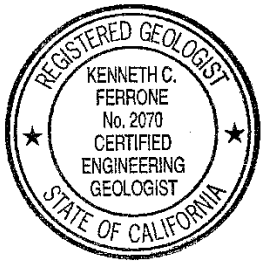


TABLE OF CONTENTS

1.0 INTRODUCTION....1

2.0 SCOPE OF WORK....2

3.0 SITE INVESTIGATION....3

3.1 Site History and Surface Description....3
3.2 Subsurface Description....4
3.3 Groundwater....4
3.4 Hydrologic Soil Group....5
3.5 Geology and Seismicity....5
3.6 Liquefaction....6

4.0 CONCLUSIONS AND RECOMMENDATIONS....7

4.1 Earthwork....9
4.1.1 Clearing and Site Preparation....9
4.1.2 Weak Soil Re-Compaction....10
4.1.3 Subgrade Preparation....10
4.1.4 Fill Material....11
4.1.5 Compaction....11
4.1.6 Engineered Slopes....11
***4.1.6.1 General*....11**
***4.1.6.2 Fill Slopes*....12**
4.1.7 Subsurface Drainage....12
4.1.8 Utility Trench Backfill....13
4.1.9 Exterior Flatwork....13
4.1.10 Construction during Wet Weather Conditions....14
4.1.11 Surface Drainage, Irrigation, and Landscaping....14
4.1.12 Storm Water Runoff Structures....15
4.1.13 Future Maintenance....16
4.1.14 Additional Recommendations....17
4.2 Foundation Support....17
4.2.1 Post-Tensioned Slabs....17
4.2.2 Retaining Walls....19
4.2.3 Seismic Design Criteria....21
4.3 Pavements....22

5.0 CONDITIONS AND LIMITATIONS....24

TABLE OF CONTENTS
(Continued)

FIGURES

1 Site Plan

APPENDICES

A Field Investigation A-1
Figure A-1, Key to Exploratory Boring Logs
Figure A-2, Rock Mass Characteristics
Exploratory Boring Logs (SFB-1 through SFB-5)
Exploratory Pit Logs (TP-1 through TP-5)

B Laboratory Investigation B-1

C Logs of Previous Borings by Others C-1

D ASFE Guidelines D-1

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed residential subdivision development to be located west of Mitchell Canyon Road (APN 121-090-011 & 121-090-016) in Clayton, California as shown on the Site Plan, Figure 1. The purpose of our investigation was to evaluate the geological and geotechnical conditions at the site and provide recommendations regarding the geotechnical engineering aspects of the project.

Based on the information indicated on the Site Plan, as well as information provided by DeNova Homes., it is our understanding that the project will consist of developing approximately 3 acres of land for a new 17-lot residential subdivision. A stormwater detention basin is also proposed. The project will be located to the east of an existing wetland and steep hillside area. Each new lot will include a single-family, detached home. Cut and fill grading is anticipated to develop flat building pad at each of the lots. Moderate grading will be needed to develop the site. Associated underground utilities and paved roadways will be constructed. The existing structures and facilities at the site will be demolished prior to new construction. Open space areas will be located to the west of the development area.

The conclusions and recommendations provided in this report are based upon the information presented above; Stevens, Ferrone & Bailey Engineering Company, Inc. (SFB) should be consulted if any changes to the project occur to assess if the changes affect the validity of this report.

2.0 SCOPE OF WORK

Our investigation of the site included the following scope of work:

- Reviewing published and unpublished geotechnical and geological literature relevant to the site;
- Reviewing a previous geotechnical investigation report by Abel R. Soares and Associates, dated July 13, 1976, including the results of two exploratory borings that extended to a maximum depth of about 6 feet;
- Performing geotechnical and geological reconnaissance of the site and surrounding area;
- Performing a supplemental subsurface exploration program, including drilling five exploratory borings to a maximum depth of about 21 feet and excavating five exploratory test pits to a maximum depth of about 6 feet;
- Performing laboratory testing of samples retrieved from the borings;
- Performing engineering analysis of the field and laboratory data; and
- Preparing this report.

The data obtained and the analyses performed were for the purpose of providing geotechnical design and construction criteria for site earthwork, underground utilities, drainage, building foundations, retaining walls, and pavements. Toxicity potential assessment of onsite materials or groundwater (including mold) and flooding evaluations were beyond our scope of work.

3.0 SITE INVESTIGATION

Reconnaissance of the site and surrounding area was performed on August 14, August 19, and August 26, 2019. Subsurface exploration was performed on August 19 and 26, 2019. Five exploratory borings were drilled using a truck-mounted drill rig equipped with 4-inch diameter, continuous flight, solid stem augers to a maximum depth of about 21 feet below existing grade. Five exploratory test pits were excavated using a CAT 430F2 backhoe to a maximum depth of about 6 feet below existing grade. Previously, two exploratory borings were drilled in 1976 by Abel R. Soares and Associates to a maximum depth of about 6 feet.

The approximate locations of all the borings and pits are shown on the Site Plan, Figure 1. Logs of our borings and pits and details regarding our field investigation are included in Appendix A. The results of our laboratory tests are discussed in Appendix B. Logs of the previous borings by others are included in Appendix C. It should be noted that changes in the surface and subsurface conditions can occur over time as a result of either natural processes or human activity and may affect the validity of the conclusions and recommendations in this report.

The exploratory pits were loosely backfilled and wheel-rolled upon completion. The pit backfill will require over-excavation and re-compaction at the time for the grading operations.

3.1 Site History and Surface Description

At the time of our investigation and as shown on Figure 1, the site was bounded by Mitchell Canyon Road on the east, undeveloped land on the south, and existing residential developments on the other sides.

The entire site was L in shape and had a plan area of about 8.6 acres with maximum dimensions of about 870 feet by 690 feet. General site surface grades sloped gently downward towards the northwest, northeast, and north with slope inclinations varying from about 4:1 (horizontal to vertical) to 6:1 at higher elevations within the southwestern half of the site to about 10:1 to 23:1 at lower elevations with the northeastern half of the site. Ephemeral drainage channels extended through the southwestern half of the site from south to north.

The site was generally vacant except for a small shed and commercial lawnmower located near an existing oak tree at the northwestern corner of the site. The site surface vegetation consisted of a moderate to heavy growth of weeds and grasses and within the drainage channels heavy growths of trees, shrubs, and grasses. Small to large diameter trees were observed throughout the site.

Based on our review of historical topographic maps and aerial photographs of the site and vicinity, it is our understanding that the site was previously occupied by an orchard.

3.2 Subsurface Description

The near-surface soil materials encountered in our borings generally consist of weak surface soils underlain by interbedded stiff to hard silty clays with sand, gravel, and rock fragments, and dense to very dense sands with clay, silt, gravel and rock fragments that extend to the maximum depth explored of about 21 feet. The near-surface soil materials encountered in our test pits generally consisted of soft to stiff clays and silts with sand and gravel and medium dense gravels with silt and sand. SFB Pits P-1 and P-3 encountered sandstone below surface soils. Bedrock encountered in the test pits was generally deeply to moderately weathered and friable to moderately strong. The two previous borings encountered similar conditions to the maximum depth explored of about 6 feet.

According to the results of laboratory testing, most of the near-surface more clayey soils have a low to medium plasticity and low to moderate expansion potential. Pit P-2, however, encountered a near-surface clay layer having high plasticity and high expansion potential. The soft to firm soils that mantle the site are weak and highly compressible; these soils typically extend to depths of about 2 feet except in the area of Pit P-3 (the northeast facing hillside in the southwest corner of the site) where weak and unstable soils extended to a depth of about 4 feet.

We anticipate soft, weak, and highly compressible soils with high water contents exist in the area of the eastern drainage channel. It has been our experience that these softer soils typically extend to depths of about 3 to 4 feet.

Detailed descriptions of the materials encountered in our exploratory borings, test pits, and borings by others are presented on the logs in Appendices A and C. Our attached boring and test pit logs and related information depict location-specific subsurface conditions encountered during our field investigation. The approximate locations of our borings and pits were determined using pacing or landmark references, and should be considered accurate only to the degree implied by the method used.

3.3 Groundwater

Groundwater was encountered in Boring SFB-3 (near the drainage channel) at a depth of about 10 feet at the end of drilling. No groundwater was encountered in the other borings or pits. All our borings were backfilled with lean cement grout in accordance with Contra Costa County requirements prior to leave the site. It should be noted that the borings might not have been left open for a sufficient period of time to establish equilibrium groundwater conditions. In addition,

fluctuations in the groundwater level could occur due to change in seasons, variations in rainfall, and other factors.

3.4 Hydrologic Soil Group

The surface soils of the site have been mapped as Gilroy clay loam (15 to 30 percent slopes, MLRA 15) in the southwest portion of the site, Gilroy clay loam (30 to 50 percent slopes, MLRA 15) in a small portion of the west corner, Los Osos clay loam (15 to 30 percent slopes, MLRA 15) in a small portion of the northwest corner, and Perkins gravelly loam (2 to 9 percent slopes) the rest of the site by USDA Web Soil Survey (WSS)[1]. The soils were assigned to Hydrologic Soil Group C and D by USDA Natural Resources Conservation Service (NRCS); the soils have been categorized as having very low to moderately high transmission rates (approximately 0.00 to 0.57 inches per hour).

Based on our site observations, the soils encountered in our borings, and the results of our laboratory testing, we recommend the near surface soils at the site be categorized as Group D soils. The Group D soils are defined as having a very slow infiltration rate when thoroughly wet (high runoff potential) and consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

3.5 Geology and Seismicity

According to Helley and Graymer (1997)[2], the site is underlain by Plio-Pleistocene undifferentiated continental gravel deposits that are generally composed of semi-consolidated to unconsolidated poorly sorted gravel, sand, silt and clay. According to Graymer, Jones, and Brabb (1994)[3], the site (below surficial deposits) is underlain by Jurassic Diabase and Late Jurassic to early Cretaceous Knoxville Formation. The bedrock encountered by Pits P-1 and P-3 appeared to be sandstone of the Knoxville Formation. Our engineering geology map for the site is shown on Figure 1.

The project site is located in the San Francisco Bay Area that is considered one of the most seismically active regions in the United States. Significant earthquakes have occurred in the San Francisco Bay Area and are believed to be associated with crustal movements along a system of

---

[1]http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm (accessed 08/21/19)

[2]Helley and Graymer, 1997, *Quaternary Geology of Contra Costa County, and Surrounding Parts of Alameda, Marin, Sonoma, Solano, Sacramento, and San Joaquin Counties, California: A Digital Database,* USGS Open-file Report 97-98.

[3]Graymer, Jones, and Brabb, 1994, *Preliminary Geologic Map Emphasizing Bedrock Formations in Contra Costa County, California: A Digital Database,* USGS Open-file Report 94-622.

sub-parallel fault zones that generally trend in a northwesterly direction. According to the Alquist-Priolo Earthquake Fault Zones Map of the Clayton Quadrangle, the site is not located in an earthquake fault zone as designated by the State of California[4].

Earthquake intensities will vary throughout the San Francisco Bay Area, depending upon numerous factors including the magnitude of earthquake, the distance of the site from the causative fault, and the type of materials underlying the site. The U.S. Geological Survey (2016)[5] has stated that there is a 72 percent chance of at least one magnitude 6.7 or greater earthquake striking the San Francisco Bay region between 2014 and 2043. Therefore, the site will probably be subjected to at least one moderate to severe earthquake that will cause strong ground shaking.

According to the U.S. Geological Survey 's Unified Hazard Tool and applying the Dynamic: Conterminous U.S. 2008 (v3.3.2) model (accessed 08/21/19), the resulting deaggregation calculations indicate that the site has a 10% probability of exceeding a peak ground acceleration of about 0.57g in 50 years (design basis ground motion based on stiff soil to very dense soil and soft rock site condition; mean return time of 475 years). The actual ground surface acceleration might vary depending upon the local seismic characteristics of the underlying bedrock and the overlying unconsolidated soils.

3.6 Liquefaction

Soil liquefaction is a phenomenon primarily associated with saturated, cohesionless, soil layers located close to the ground surface. These soils lose strength during cyclic loading, such as imposed by earthquakes. During the loss of strength, the soil acquires mobility sufficient to permit both horizontal and vertical movements. Soils that are most susceptible to liquefaction are clean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. According to ABAG and the U.S. Geological Survey[6,7], the site is located in an area that has been characterized as having very low to low liquefaction susceptibility. As of the date of this report, the liquefaction potential of the site has not been evaluated by the State of California[8].

Based on our review of available literature and the results of field explorations at the site, it is our opinion that the potential for ground surface damage at the site resulting from liquefaction is low.

---

[4]State of California, *Special Studies Zones, Clayton Quadrangle*, Revised Official Map, Effective: July 1, 1993.
[5]Aagaard, Blair, Boatwright, Garcia, Harris, Michael, Schwartz, and DiLeo, *Earthquake Outlook for the San Francisco Bay Region 2014–2043*, USGS Fact Sheet 2016–3020, Revised August 2016 (ver. 1.1).
[6]Witter, Knudsen, Sowers, Wentworth, Koehler, and Randolph, 2006, *Maps of Quaternary Deposits and Liquefaction Susceptibility in the Central San Francisco Bay Region, California*", USGS Open File Report 2006-1037.
[7]Knudsen, Sowers, Witter, Wentworth, and Helly, 2000, *Preliminary Maps of Quaternary Deposits and Liquefaction Susceptibility, Nine-County San Francisco Bay Region, California*, USGS Open File Report 00-444.
[8]Seismic Hazards Mapping Act, 1990.

4.0 CONCLUSIONS AND RECOMMENDATIONS

It is our opinion that the site is suitable for the proposed project from a geotechnical engineering standpoint. The conclusions and recommendations presented in this report should be incorporated in the design and construction of the project to reduce soil or foundation related issues. The following are the primary geotechnical considerations for development of the site.

WEAK SOIL RE-COMPACTION: Weak and highly compressible soils mantle the development area of the site to depths of about 2 feet. In order to provide support of the planned improvements (such as fills, foundations, roadways, driveways, etc.), we recommend over-excavating the existing site grades about 1 foot, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. There would be no need to over-excavate soils within areas that do not support improvements, such as in planned open spaces beyond the limits of the lots. Where the over-excavation limits abut adjacent property, SFB should be consulted to determine the actual vertical and lateral extent of over-excavation so that adjacent property is not adversely impacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness will occur below the proposed building foundations. Removed soil can be used as new fill provided it is placed and compacted in accordance with the recommendations presented in this report.

The extent of the removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

The exploratory pits were loosely backfilled and wheel-rolled upon completion. The backfill will require over-excavation and re-compaction at the time for the grading operations.

EXPANSION POTENTIAL: Most of the clayey surficial soils were found to be moderately expansive and will be subjected to volume changes during seasonal moisture content fluctuations. To reduce the potential for post-construction distress to the proposed structure resulting from shrinkage and swelling of these materials, we recommend that the proposed structure be supported on a post-tensioned slab foundation system that is designed to reduce the impact of the expansive soils. It should be noted that special design considerations will also be required for exterior slabs.

The clayey soils encountered in Pit P-2 are highly expansive and can cause distress to overlying improvements when subjected to changes in moisture content. We recommend these highly expansive clays either (1) be completely over-excavated and mixed into planned fill materials or (2) be capped with at least 3 feet of engineered fill whose source is from elsewhere onsite. If alternative (1) is used, SFB should observe the over-excavation and mixing process so that the highly expansive clays are not placed in any one localized area.

CUT/FILL TRANSITIONS AND DIFFERENTIAL FILL THICKNESS: Proposed grading may result in cut/fill transitions across building pads and differential fill thickness greater than 5 feet below building foundations. In order to reduce the potential for excessive differential movement across the proposed home foundations, we recommend that foundations bear entirely on an engineered fill layer and that no more than 5 feet of differential fill thickness exist below foundations. Over-excavation and re-compaction below foundations will likely be necessary in some lots to satisfy this criterion.

EROSION AND SLOPE MAINTENANCE: Drainage and erosion control measures should be maintained during and after construction. Short-term and long-term erosion control are critical for the stability of any exposed cut and fill slopes, and may be necessary for the natural slopes in order to reduce sediment accumulation in the drainage systems. We recommend all exposed cut and fill slopes be seeded or planted with appropriately designed erosion resistant vegetation and fertilizer. The vegetation should be appropriately irrigated in order to establish and maintain growth. Over-watering should be avoided in order to reduce surficial instability and erosion. Vegetation should be deeply rooted to aid in the interlocking of the near-surface soils. Additional seeding and planting may be necessary in localized areas if the initial seeding or planting is unsuccessful. After seeding, fertilizing, and planting, staked erosion control blankets might be necessary to further stabilize the surficial soils.

Additional erosion control measures will need to be designed and implemented prior to the rainy season based upon the site's configuration. The measures could include straw wattles, silt fencing, hay bales, sediment collection basins, and filtration systems. Silt fencing should be designed for the site's soil type. Storm water discharge and release points from silt fencing should be designed to reduce erosion. In areas exposed to winter rains, we recommend an erosion control plan be prepared and implemented at least one month prior to the beginning of the rainy season. The erosion control measures will require inspection, modification, and re-mediation during the rainy season in order to comply with regulatory requirements.

CORROSION POTENTIAL: Four onsite soil sample was tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in Appendix B. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors so that they can design and install corrosion protection measures. Please be aware that we are not corrosion protection experts; we recommend corrosion protection measures be designed and constructed so that all concrete and metal, including foundation post-tensioned cables and their end cut-offs, are protected against corrosion. We also recommend additional testing be performed

if the test results are deemed insufficient by the designers and installers of the corrosion protection. Landscaping soils typically contain fertilizers and other chemicals than can be highly corrosive to metals and concrete; landscaping soils commonly are in contact with foundations. Consideration should be given to testing the corrosion potential characteristics of proposed landscaping soils and other types of imported or modified soils in order to design and provide protection against corrosion for the foundation and pipelines.

ADDITIONAL RECOMMENDATIONS: Detailed drainage, earthwork, foundation, retaining wall, and pavement recommendations for use in design and construction of the project are presented below. We recommend SFB review the design and specifications to verify that the recommendations presented in this report have been properly interpreted and implemented in the design, plans, and specifications. We also recommend SFB be retained to provide consulting services and to perform construction observation and testing services during the construction phase of the project to observe and test the implementation of our recommendations, and to provide supplemental or revised recommendations in the event conditions different than those described in this report are encountered. We are not responsible for misinterpretation of our recommendations.

It is the responsibility of the contractors to provide safe working conditions at the site at all times. We recommend all OSHA regulations be followed, and excavation safety be ensured at all times. It is beyond our scope of work to provide excavation safety designs.

4.1 Earthwork

4.1.1 Clearing and Site Preparation

The site should be cleared of all obstructions including any existing structures and their entire foundation systems, existing utilities and pipelines and their associated backfill, designated trees and their associated entire root systems, and debris. Holes resulting from the removal of underground obstructions extending below the proposed finish grade should be cleared and backfilled with fill materials as specified in **Section 4.1.4, *Fill Material***, and compacted to the requirements in **Section 4.1.5, *Compaction***. Tree roots may extend to depths of about 3 to 4 feet. Wells and septic systems, if they exist, should be abandoned in accordance with Contra Costa County standards.

From a geotechnical standpoint, any existing trench backfill materials, clay or concrete pipes, pavements, and concrete that are removed can be used as new fill onsite provided debris is removed and it is broken up to meet the size requirement for fill material in **Section 4.1.4, *Fill Material***. We recommend fill materials composed of broken up concrete or asphalt concrete not be located

within 3 feet of the ground surface in yard areas. Consideration should be given to placing these materials below pavements, directly under building footprints, or in deeper excavations. We recommend backfilling operations for any excavations be performed under the observation and testing of SFB.

At least two weeks prior to grading, areas containing surface vegetation should be mowed and the cut grasses and weeds removed from the site or stockpiled for use in landscaping. After mowing, the site should be disced or stripped. Portions of the site containing heavy surface vegetation that is not removed by discing should be stripped to an appropriate depth to remove these materials. The amount of actual stripping should be determined in the field by SFB at the time of construction. Stripped materials should be removed from the site or stockpiled for later use in landscaping, if desired.

4.1.2 Weak Soil Re-Compaction

As described previously, the upper two feet of the surface soils are generally loose, weak, and potentially compressible. In order to reduce the potential for damaging differential settlement of overlying improvements (such as new fills, building foundations, exterior flatwork, and pavements), we recommend these weak soil materials be completely removed and re-compacted.

We estimate the process can consist of over-excavating the existing surface grade 1 foot, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. There would be no need to over-excavate soils within areas that do not support improvements, such as within planned open spaces.

Where the over-excavation limits abut adjacent property, SFB should be consulted to determine the actual vertical and lateral extent of over-excavation so that adjacent property is not adversely impacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness exists below the proposed building foundations. The extent of the removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

Removed fill and soil materials may be used as new fill onsite provided it satisfies the recommendations provided in **Section 4.1.4, *Fill Material***. Compaction should be performed in accordance with the recommendations in **Section 4.1.5, *Compaction***.

4.1.3 Subgrade Preparation

After the completion of clearing, site preparation, and weak soil re-compaction, soil exposed in areas to receive improvements (such as structural fill, building foundations, driveways, exterior flatwork, and pavements) should be scarified to a depth of about 12 inches, moisture conditioned

to approximately 2 to 3 percent over optimum water content, and compacted to the requirements for structural fill.

If building pads or pavement subgrade are allowed to remain exposed to sun, wind, or rain for an extended period of time, or are disturbed by borrowing animals or vehicles, the exposed subgrade or pavement subgrade may need to be reconditioned (moisture conditioned and/or scarified and recompacted) prior to foundation or pavement construction. SFB should be consulted on the need for subgrade reconditioning when the subgrade is left exposed for extended periods of time.

4.1.4 Fill Material

From a geotechnical and mechanical standpoint, onsite soils having an organic content of less than 3 percent by volume can be used as fill. Fill should not contain rocks or lumps larger than 6 inches in greatest dimension with not more than 15 percent larger than 2.5 inches. If required, imported fill should have a plasticity index of 15 or less and have a significant amount of cohesive fines.

In addition to the mechanical properties specifications, all imported fill material should have a resistivity (100% saturated) no less than the resistivity for the onsite soils, a pH of between approximately 6.0 and 8.5, a total water soluble chloride concentration less than 300 ppm, and a total water soluble sulfate concentration less than 500 ppm. We recommend import samples be submitted for corrosion and geotechnical testing at least two weeks prior to being brought onsite.

4.1.5 Compaction

Within the upper 5 feet of the finished ground surface, we recommend structural fill be compacted to at least 90 percent relative compaction, and structural fill below a depth of 5 feet be compacted to at least 95 percent relative compaction, as determined by ASTM D1557 (latest edition). We recommend the new fill be moisture conditioned approximately 2 to 3 percent over optimum water content. The upper 6 inches of subgrade soils beneath pavements should be compacted to at least 95 percent relative compaction. Fill material should be spread and compacted in lifts not exceeding approximately 8 to 12 inches in un-compacted thickness.

4.1.6 Engineered Slopes

4.1.6.1 General

We recommend cut and non-reinforced fill slopes not exceed an inclination of 2:1 (horizontal to vertical). Steeper fill slopes are feasible provided they are mechanically reinforced with geogrid; if requested, SFB can provide detailed designs of slope reinforcing if needed. We recommend all cut and fill slopes be constructed with surface drainage collection and discharge facilities. Shallow slope movements such as surficial sloughing, toppling, and flows, however, could still occur as a

result of erosion and unanticipated water infiltration. To decrease the potential for shallow slope movement, the drainage and erosion control recommendations presented in this report should be implemented in the design and construction of the site. The implemented drainage and erosion control measures should be maintained during and after construction. Slope benches should be constructed in accordance with the latest edition of the California Building Code. Slope maintenance may include re-establishing drainage patterns, controlling water infiltration, and repairing shallow slope movements.

4.1.6.2 Fill Slopes

We recommend fill slopes be built using well-mixed, moisture conditioned, and well blended engineered fill to reduce the potential for slope expansion and creeping. We also recommend that fill slopes be over-built approximately 2 feet horizontally and then trimmed back to finished grades. Where fills are placed on slopes steeper than 10:1 (horizontal to vertical), the fills should be keyed at least 5 feet into competent native soils or at least 3 feet into competent bedrock. Keyways should be at least 10 feet wide and a subdrain should be placed at the bottom and to the rear of each keyway. The keyway should be sloped toward the back of the key at 2 percent or steeper. A subgrade bench and subdrain should be provided for approximately every 10 feet of vertical elevation gain, and the bench should extend at least one foot into competent soils or bedrock. Subdrain construction is described in **Section 4.1.7, *Subsurface Drainage***. The actual extent of the keying, benching, and subdrainage should be determined by SFB during earthwork operations. SFB should also be consulted during the development of grading plans to estimate locations of keyways and subdrains.

4.1.7 Subsurface Drainage

In order to reduce the potential for subsurface water created issues, we recommend subdrains be installed below engineered fill placed on slopes, at the toe of slopes, and where open space areas direct water toward improvements. During the earthwork operations, additional subdrains may be necessary in areas of encountered or anticipated seepage on the slopes. We recommend a subdrain be located below lined ditches or earthen swales that collect surface water from open space areas; the purpose of the subdrain is to intercept water that can flow under ditches and cause damage and distress. The actual location and extent of subdrains should be assessed by SFB during the development of the grading and improvement plans and determined in the field by SFB at the time of construction.

Where used, subdrains should consist of 4-inch diameter, rigid perforated pipe (perforations down) surrounded by free draining, uniformly graded, 1/2 to 3/4-inch crushed gravel wrapped in filter fabric such as Mirafi 140N or equivalent. The pipe should be underlain by about 1/2 to 1 inch of the gravel, and on the sides by at least 4 inches of gravel. The filter fabric should overlap approximately 12 inches or more at joints. Subdrains should be connected to a solid, rigid,

collector pipe with a minimum diameter of 4 inches. Subdrain pipes can consist of rigid ABS (SDR-35) or PVC A-2000 (or equal) for fills less than 20 feet in height. Collector pipes should be connected to appropriate discharge facilities such as storm drains, drainage inlets, or storm drain manholes. Subdrain clean-outs should be provided. The clean-out locations should be based upon the reach of the rotary cleaning systems and the restrictions of pipe bends. Caltrans Class 2 permeable material may be used in lieu of gravel and filter fabric.

Where used, subdrain trenches should be at least 12 inches wide and about 4 feet deep below adjacent ground surface. If a subdrain trench extends to the ground surface and is not covered with concrete lined ditch or concrete flatwork, we recommend the subdrain trench be covered with a 12-inch thick cap consisting of native soil compacted to at least 90 percent relative compaction.

4.1.8 Utility Trench Backfill

Pipeline trenches should be backfilled with fill placed in lifts of approximately 8 inches in uncompacted thickness. Thicker lifts can be used provided the method of compaction is approved by SFB and the required minimum degree of compaction is achieved. Backfill should be placed by mechanical means only. Jetting is not permitted.

Onsite trench backfill should be compacted to at least 90 percent relative compaction. Imported sand trench backfill should be compacted to at least 95 percent relative compaction and sufficient water is added during backfilling operations to prevent the soil from "bulking" during compaction. The upper 3 feet of trench backfill in foundation, slab, and pavement areas should be entirely compacted to at least 95 percent relative compaction. To reduce piping and settlement of overlying improvements, we recommend rock bedding and rock backfill (if used) be completely surrounded by a filter fabric such as Mirafi 140N (or equivalent); alternatively, filter fabric would not be necessary if Caltrans Class 2 permeable material is used in lieu of rock bedding and rock backfill.

Sand or gravel backfilled trench laterals that extend toward driveways, exterior slabs-on-grade, or under the building foundations, and are located below irrigated landscaped areas such as lawns or planting strips, should be plugged with onsite clays, low strength concrete, or sand/cement slurry. The plug for the trench lateral should be located below the edge of pavement or slabs, and under the perimeter of the foundation. The plug should be at least 24 inches thick, extend the entire width of the trench, and extend from the bottom of the trench to the top of the sand or gravel backfill.

4.1.9 Exterior Flatwork

We recommend that exterior slabs (including patios, sidewalks, and driveways) be placed directly on the properly compacted fills. We do not recommend using aggregate base, gravel, or crushed rock below these improvements. If imported granular materials are placed below these elements,

subsurface water can seep through the granular materials and cause the underlying soils to saturate or pipe. Prior to placing concrete, subgrade soils should be moisture conditioned to increase their moisture content to approximately 2 to 3 percent above laboratory optimum moisture (ASTM D-1557).

The more expansive clayey soils at the site could be subjected to volume changes during fluctuations in moisture content. As a result of these volume changes, some vertical movement of exterior slabs (such as driveways, sidewalks, patios, exterior flatwork, etc.) should be anticipated. This movement could result in damage to the exterior slabs and might require periodic maintenance or replacement. Adequate clearance should be provided between the exterior slabs and building elements that overhang these slabs, such as window sills or doors that open outward.

We recommend reinforcing exterior slabs with steel bars in lieu of wire mesh. To reduce potential crack formation, the installation of #4 bars spaced at approximately 24 inches on center in both directions should be installed. Score joints and expansion joints should be used to control cracking and allow for expansion and contraction of the concrete slabs. We recommend appropriate flexible, relatively impermeable fillers be used at all cold/expansion joints. The installation of dowels at all expansion and cold joints will reduce differential slab movements; the dowels should be at least 30 inches long and should be spaced at a maximum lateral spacing of 24 inches. Although exterior slabs that are adequately reinforced will still crack, trip hazards requiring replacement of the slabs will be reduced if the slabs are properly reinforced.

4.1.10 Construction during Wet Weather Conditions

If construction proceeds during or shortly after wet weather conditions, the moisture content of the onsite soils could be significantly above optimum. Consequently, subgrade preparation, placement and/or reworking of onsite soil or fills as structural fill might not be possible. Alternative wet weather construction recommendations can be provided by our representative in the field at the time of construction, if appropriate. All the drainage measures recommended in this report should be implemented and maintained during and after construction, especially during wet weather conditions.

4.1.11 Surface Drainage, Irrigation, and Landscaping

Ponding of surface water must not be allowed on pavements, adjacent to foundations, at the top or bottom of slopes, and at the top or adjacent to catchment and retaining walls. Ponding of water should also not be allowed on the ground surface adjacent to or near exterior slabs, including driveways, walkways, and patios. Surface water should not be allowed to flow over the top of slopes, down slope faces, or over catchment and retaining walls.

We recommend positive surface gradients of at least 2 percent be provided adjacent to foundations to direct surface water away from the foundations and toward suitable discharge facilities. Roof downspouts and landscaping drainage inlets should be connected to solid pipes that discharge the collected water into appropriate water collection facilities. We recommend the surface drainage be designed in accordance with the latest edition of the California Building Code.

In order to reduce differential foundation movements, landscaping (where used) should be placed uniformly adjacent to the foundation and exterior slabs. We recommend trees be no closer to the structure or exterior slabs than half the mature height of the tree; in no case should tree roots be allowed to extend near or below the foundations or exterior slabs.

Drainage inlets should be provided within enclosed planter areas and the collected water should be discharged onto pavement, into drainage swales, or into storm water collection systems. In order to reduce the potential for heaving, consideration should be given to lining planting areas and collecting the accumulated surface water in subdrain pipes that discharge to appropriate collection facilities. The drainage should be designed and constructed so that the moisture content of the soils surrounding the foundations do not become elevated and no ponding of water occurs. The inlets should be kept free of debris and be lower in elevation than the adjacent ground surface.

We recommend regular maintenance of the drainage systems be performed, including maintenance prior to rainstorms. The inspection should include checking drainage patterns to make sure they are performing properly, making sure drainage systems and inlets are functional and not clogged, and checking that erosion control measures are adequate for anticipated storm events. Immediate repairs should be performed if any of these measures appears to be inadequate.

Irrigation should be performed in a uniform, systematic manner as equally as possible on all sides of the foundations and exterior slabs to maintain moist soil conditions. Over-watering must be avoided. To reduce moisture changes in the natural soils and fills in landscaped areas, we recommend that drought resistant plants and low flow watering systems be used. All irrigation systems should be regularly inspected for leakage.

4.1.12 Storm Water Runoff Structures

To satisfy local and state permit requirements, most new development projects must control pollutant sources and reduce, detain, retain, and/or treat specified amounts of storm water runoff. The intent of these types of improvements is to conserve and incorporate on-site natural features, together with constructed hydrologic controls, to more closely mimic pre-development hydrology and watershed processes.

We recommend storm water collection improvements that are designed to detain, retain, and/or treat water such as bio-swales, porous pavement structures, and water detention basins, be lined with a relatively impermeable membrane in order to reduce water seepage and the potential for damage and distress to other infrastructure improvements (such as pavements, foundations, and walkways) which can occur as a result of volumetric soil/fill changes (heaving and shrinking of the surrounding soil/fill). We recommend a relatively impermeable membrane such as STEGO Wrap 15-mil or equivalent be installed below and along the sides of these facilities that direct the collected water into subdrain pipes. The membrane should be lapped and sealed in accordance with the manufacture's specifications, including taping joints where pipes penetrate the membrane. A subdrain pipe should be used at the base of the infiltration materials to collect accumulated water and transmit the water to an appropriate facility.

Soil filter materials within basins and swales will consolidate over time causing long-term ground surface settlement. Additional filling within the basins and swales over time will be needed to maintain design surface elevations. The soil filter materials, infiltration testing and procedures, and associated compaction requirements should be specified by the Civil Engineer and shown in detail on the grading and improvement plans.

Sidewalls of earthen swales and basins steeper than 3:1 (horizontal to vertical) will experience downward and lateral movements that can cause significant ground surface movements, including movement of adjacent improvements such as foundations, utilities, pavements, driveways, walkways, and curbs and gutters. The magnitude and rate of movement depends upon the swale and basin backfill material type and compaction. To reduce the potential for damaging movements, we recommend 3:1 sidewall slopes be used for earthen swales and basins, sidewalks be setback at least 3 feet from the top of the slope, creep sensitive improvements (such as roadway curbs) be setback at least 5 feet from the top of the slopes, or the slopes/sidewalls be appropriately restrained using an engineered retaining system, such as deepened curbs and foundations that are designed to resist lateral earth pressures and act as a retaining wall.

SFB should be consulted regarding the use, locations, and design of storm water detention and filtration facilities. We also recommend SFB observe and document the installation of liners, subdrain pipes, and soil filter materials during construction for conformance to the recommendations in this report and the development's plans and specifications.

4.1.13 Future Maintenance

In order to reduce water related issues, we recommend regular maintenance of the site and each lot be performed, including maintenance prior to rainstorms. Maintenance should include the re-compaction of loosened soils, collapsing and infilling holes with compacted soils or low strength sand/cement grout, removal and control of digging animals, modifying storm water drainage

patterns to allow for sheet flow into drainage inlets or ditches rather than concentrated flow or ponding, removal of debris within drainage ditches and inlets, and immediately repairing any erosion or soil flow. The inspection should include checking drainage patterns, making sure drainage systems are functional and not clogged, and erosion control measures are adequate for anticipated storm events. Immediate repair should be performed if any of these measures appear to be inadequate. Temporary and permanent erosion and sediment control measures should be installed over any exposed soils immediately after repairs are made.

Differential movement of exterior slabs can occur over time as a result of numerous factors. We recommend homeowners, the HOA, and development owners perform inspections and maintenance of slabs, including infilling significant cracks, providing fillers at slab offsets, and replacing slabs if severely damaged.

4.1.14 Additional Recommendations

We recommend that drainage, irrigation, landscaping, and maintenance recommendations provided in this report be forwarded to your designers and contractors, and we recommend they be included in disclosure statements given to homeowners, development owners, and their maintenance associations.

4.2 Foundation Support

4.2.1 Post-Tensioned Slabs

The proposed residential buildings can be supported on a post-tensioned slab foundation that is designed for the expansion potential of onsite soils. The slab foundation should bear entirely on properly prepared, compacted structural fill. Prior to the concrete pour, we recommend the moisture content of the pad subgrade materials be approximately 2 to 3 percent above laboratory optimum moisture. If the building pads are left exposed for an extended period of time prior to constructing foundations, we recommend SFB be contacted for recommendations to re-condition pads in order provide adequate building support.

The post-tensioned slab thickness should be determined by the Structural Engineer, however we recommend the post-tensioned slabs be at least 10 inches thick. An allowable bearing pressure of 1,500 pounds per square foot can be used for localized point and line loads. Deflection of the slab foundations should not exceed the values recommended in the most recent PTI Manual. Lateral loads, such as derived from earthquakes and wind, can be resisted by friction between the post-tensioned slab foundation bottom and the supporting subgrade. A friction coefficient of 0.25 is considered applicable.

At least 10 feet of cover should be provided between the outer face of slabs and un-retained slope faces, as measured laterally between slope faces and the slabs. Where less than 10 feet of cover exists, deepening of the edge of slabs may be necessary in order to achieve 10 feet of cover for buildings located near tops of slopes. Where slabs are located adjacent to utility trenches, the slab bearing surface should bear below an imaginary 1 horizontal to 1 vertical plane extending upward from the bottom edge of the adjacent utility trench. Alternatively, the slab reinforcing could be increased to span the area defined above assuming no soil support is provided.

A vapor retarder must be placed between subgrade soils and the bottom of the slabs-on-grade. We recommend the vapor retarder consist of a single layer of Stego Wrap Vapor Barrier 15 mil Class A or equivalent provided the equivalent satisfies the following criteria: a permeance as tested before and after mandatory conditioning of less than 0.01 Perms and strength of Class A as determined by ASTM E 1745 (latest edition), and a thickness of at least 15 mils. Installation of the vapor retarder should conform to the latest edition of ASTM E 1643 (latest edition) and the manufacturers requirements, including all joints should be lapped at least 6 inches and sealed with Stego Tape or equal in accordance with the manufacturer's specifications. Protrusions where pipes or conduit penetrate the membranes should be sealed with either one or a combination of Stego Tape, Stego Mastic, Stego Pipe Boots, or a product of equal quality as determined by the manufacturer's instructions and ASTM E 1643. Care must be taken to protect the membrane from tears and punctures during construction. We do not recommend placing sand or gravel over the membrane.

Concrete slabs retain moisture and often take many months to dry; construction water added during the concrete pour further increases the curing time. If the slabs are not allowed to completely cure prior to constructing the super-structure, the concrete slabs will expel water vapor and the vapor will be trapped under impermeable flooring. The concrete mix design for the slabs should have a maximum water/cement ratio of 0.45; the actual water/cement ratio may need to be reduced if the concentration of soluble sulfates or chlorides in the supporting subgrade is detrimental to the concrete. The results of sulfate and chloride testing of four onsite soil samples are included under separate cover. We recommend you consult with your concrete slab designers and concrete contractors regarding methods to reduce the potential for differential concrete curing.

An experienced Structural Engineer should design the post-tensioned slabs to resist the differential soil movement. The preliminary soil design parameters presented below were generated using the procedures presented in the Post-Tensioning Institute (PTI) design manual and PTI published specifications, and the PTI preferred computer program VOLFLO was employed to simulate the wetting and drying scenarios of the soils beneath the post-tensioned slabs.

The values provided below are based upon the post-tensioned slab foundations being entirely surrounded by uniform, properly drained, moderately irrigated landscaping; if differing conditions

exist that will cause differential soil moisture adjacent or below the slabs, or if portions of the foundations will be located adjacent to relatively dry or wet soils, then we should be consulted and modifications to the values below would need to be modified in writing. Please refer to **Section 4.1.11, *Surface Drainage, Irrigation, and Landscaping***, for additional recommendations. We recommend that slab-subgrade friction values provided in the most recent PTI Manual be used in order to determine the friction that might be expected to exist during tendon stressing.

SWELLING MODE

	Center Lift	Edge Lift
Edge Moisture Variation Distance (e_m)	9.0 feet	5.0 feet
Differential Soil Movement (y_m)	0.5 inch	1.0 inch

We recommend SFB review the foundation drawings and specifications prior to submittal to verify that the recommendations provided in this report have been used and properly interpreted in the design of the slabs.

4.2.2 Retaining Walls

If segmental block walls with geogrid will be used at the site, SFB should be contacted to provide block wall and geogrid designs and specifications.

Where walls retain soil, they must be designed to resist both lateral earth pressures and any additional lateral loads caused by surcharging such as building and roadway loads. Where walls are used to retain soil, we recommend unrestrained walls (walls free to deflect and disconnected from other structures) be designed to resist an equivalent fluid pressure of 40 pounds per cubic foot. This assumes a level backfill. Restrained walls (walls restrained from deflection) should be designed to resist an equivalent fluid pressure of 40 pounds per cubic foot plus a uniform pressure of 8H pounds per square foot, where H is the height of the wall in feet. Walls with inclined backfill should be designed for an additional equivalent fluid pressure of 1 pound per cubic foot for every 2 degrees of slope inclination. Walls subjected to surcharge loads should be designed for an additional uniform lateral pressure equal to one-third and one-half the anticipated surcharge load for unrestrained and restrained walls, respectively. These lateral pressures depend upon the moisture content of the retained soils to be constant over time; if the moisture content of the retained soils will fluctuate or increase compared to the moisture content at time of construction, then SFB should be consulted and provide written modifications to this design criteria.

For retaining walls that need to resist earthquake induced lateral loads from nearby foundations, walls that are to be designed to resist earthquake loads, and any retaining walls that are higher than

6 feet (as required by the 2016 CBC), we recommend the walls also be designed to resist a triangular pressure distribution equal to an equivalent fluid pressure of 30 pounds per cubic foot based on the ground acceleration from a design basis earthquake. This seismic induced earth pressure is in addition to the pressures noted above. Due to the transient nature of the seismic loading, a factor of safety of at least 1.0 can be used in the design of the walls when they resist seismic lateral loads. Some movement of the walls may occur during moderate to strong earthquake shaking and may result in distress as is typical for all structures subjected to earthquake shaking.

The recommended lateral pressures assume walls are fully-back drained to prevent the build-up of hydrostatic pressures. This can be accomplished by using ½ to ¾ inch crushed, uniformly graded gravel entirely wrapped in filter fabric such as Mirafi 140N or equal (an overlap of at least 12 inches should be provided at all fabric joints). The gravel and fabric should be at least 8 inches wide and extend from the base of the wall to within 12 inches of the finished grade at the top (Caltrans Class 2 permeable material (Section 68) may be used in lieu of gravel and filter fabric). A 4-inch diameter, perforated pipe should be installed at the base and centered within the gravel. The perforated pipe should be connected to a solid collector pipe that transmits the water directly to a storm drain, drainage inlet, or onto pavement. If weep holes are used in the wall, the perforated pipe within the gravel is not necessary provided the weep holes are kept free of animals and debris, are located no higher than approximately 6 inches from the lowest adjacent grade, and are able to function properly. As an alternative to using gravel, drainage panels (such as AWD SITEDRAIN Sheet 94 for walls or equal) may be used behind the walls in conjunction with perforated pipe (connected to solid collector pipe), weep holes, or strip drains (such as SITEDRAIN Strip 6000 or equal). If used, the drainage panels can be spaced on-center at approximately 2 times the panel width.

If heavy compaction equipment is used behind the walls, the walls should be appropriately designed to withstand loads exerted by the heavy equipment and/or temporarily braced. Fill placed behind walls should conform to the recommendations provided in **Section 4.1.4, *Fill Material***, and **Section 4.1.5, *Compaction***.

Retaining walls can be supported on drilled, cast-in-place, straight shaft friction piers that develop their load carrying capacity in the materials underlying the site. The piers should have a minimum diameter of 12 inches and a center-to-center spacing of at least three times the shaft diameter. We recommend that piers be at least 6 feet long. The pier reinforcing should be based on structural requirements but in no case should less than two #4 bars for the entire length of the pier be used.

The actual design depth of the piers should be determined using an allowable skin friction of 500 pounds per square foot (psf) for dead plus live loads, with a one-third increase for all loads including wind or seismic. Seventy percent of the skin friction value can be used to resist uplift.

Lateral load resistance can be developed in passive resistance for pier foundations. A passive resistance equal to an equivalent fluid weighing 350 pounds per cubic foot acting against twice the projected diameter of pier shafts can be used. The upper two feet of pier embedment should be neglected in the vertical and passive resistance design as measured from finished grade. The portion of the pier shaft located within 10 feet (as measured laterally) of the nearest slope face should also be ignored in the design.

We recommend the pier foundations be located outside of (or beyond) a 1:1 (horizontal to vertical) plane projected upward from the base of any wall or utility trench, or the portion of a pier located within this zone should be ignored in the design of the pier.

The bottoms of the pier excavations should be relatively dry and free of all loose cuttings or slough prior to placing reinforcing steel and concrete. Any accumulated water in pier excavations should be removed prior to placing concrete. We recommend that the excavation of all piers be performed under the direct observation of SFB to confirm that the pier foundations are founded in suitable materials and constructed in accordance with the recommendations presented herein. Preliminarily, we recommend concrete pours of pier excavations be performed within 24 hours of excavation and prior to any rainstorms. Where caving or high groundwater conditions exist, additional measures such as using casing, tremie methods, and pouring concrete immediately after excavating may be necessary. SFB should be consulted on the need for additional measures for pier construction as needed during construction.

4.2.3 Seismic Design Criteria

The following parameters were calculated using the U.S. Seismic Design Map program[9], and were based on the site being located at approximate latitude 37.935°N and longitude 121.944°W. For seismic design using the 2019 California Building Code (CBC), we recommend the following seismic design parameters be used. These values are based on applying the ASCE 7-16 model and assuming the structures are categorized as Risk Category II.

[9]https://seismicmaps.org/ (accessed 2/28/20)

Seismic Design Parameter	Design Value
Site Class	C
S_S	2.275
S_1	0.665
S_{MS}	2.731
S_{M1}	0.931
S_{DS}	1.820
S_{D1}	0.621
SDC	D
F_a	1.2
F_v	1.4
PGA_M	1.09

4.3 Pavements

Based on the results of laboratory testing of onsite materials, we recommend that an R-value of 5 be used in preliminary asphalt concrete pavement design. We recommend additional R-value tests be performed once the pavement subgrade is established to confirm the R-value used in the design. Pavement subgrade completely composed of sandy and gravelly fills will result in higher R-values and thinner pavement sections.

We developed the following alternative preliminary pavement sections using Topic 608 of the State of California Department of Transportation Highway Design Manual, the recommended R-value, and typical traffic indices for residential developments. The project's Civil Engineer or appropriate public agency should determine actual traffic indices. The pavement thicknesses shown below are SFB's recommended minimum values; governing agencies may require pavement thicknesses greater than those shown.

PRELIMINARY PAVEMENT DESIGN ALTERNATIVES SUBGRADE R-VALUE = 5			
Location	Pavement Components		Total Thickness (inches)
	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)	
T.I. = 4.5 (auto & light truck parking)	3.0	9.0	12.0
T.I. = 5.0 (access ways/courts)	3.0	11.0	14.0

If the pavements are planned to be placed prior to or during construction, the traffic indices and pavement sections may not be adequate for support of what is typically more frequent and heavier construction traffic. If the pavement sections will be used for construction access by heavy trucks or construction equipment (especially fork lifts with support footings), SFB should be consulted to provide recommendations for alternative pavement sections capable of supporting the heavier use and heavier loads. If requested, SFB can provide recommendations for a phased placement of the asphalt concrete to reduce the potential for mechanical scars caused by construction traffic in the finished grade. Preliminary pavement sections should be revised, if necessary, when actual traffic indices are known and pavement subgrade elevations are determined.

Pavement baserock and asphalt concrete should be compacted to at least 95 percent relative compaction. The asphalt concrete compacted unit weight should be determined using Caltrans Test Method 308-A or ASTM Test Method D1188. Asphalt concrete should also satisfy the S-value requirements by Caltrans.

We recommend regular maintenance of the asphalt concrete be performed at approximately five-year intervals. Maintenance may include sand slurry sealing, crack filling, and chip seals as necessary. If regular maintenance is not performed, the asphalt concrete layer could experience premature degradation requiring more extensive repairs.

5.0 CONDITIONS AND LIMITATIONS

SFB is not responsible for the validity or accuracy of information, analyses, test results, or designs provided to SFB by others or prepared by others. The analysis, designs, opinions, and recommendations submitted in this report are based in part upon the data obtained from our field work and upon information provided by others. Site exploration and testing characterizes subsurface conditions only at the locations where the explorations or tests are performed; actual subsurface conditions between explorations or tests may be different than those described in this report. Variations of subsurface conditions from those analyzed or characterized in this report are not uncommon and may become evident during construction. In addition, changes in the condition of the site can occur over time as a result of either natural processes (such as earthquakes, flooding, or changes in ground water levels) or human activity (such as construction adjacent to the site, dumping of fill, or excavating). If changes to the site's surface or subsurface conditions occur since the performance of the field work described in this report, or if differing subsurface conditions are encountered, we should be contacted immediately to evaluate the differing conditions to assess if the opinions, conclusions, and recommendations provided in this report are still applicable or should be amended.

We recommend SFB be retained to provide geotechnical services during design, reviews, earthwork operations, paving operations, and foundation installation to confirm and observe compliance with the design concepts, specifications and recommendations presented in this report. Our presence will also allow us to modify design if unanticipated subsurface conditions are encountered or if changes to the scope of the project, as defined in this report, are made.

This report is a design document that has been prepared in accordance with generally accepted geological and geotechnical engineering practices for the exclusive use of DeNova Homes and their consultants for specific application to the proposed Mitchell Canyon Road residential subdivision development project in Clayton, California, and is intended to represent our design recommendations to DeNova Homes for specific application to the subdivision project. The conclusions and recommendations contained in this report are solely professional opinions. It is the responsibility of DeNova Homes to transmit the information and recommendations of this report to those designing and constructing the project. We will not be responsible for the misinterpretation of the information provided in this report. We recommend SFB be retained to review geological and geotechnical aspects of the construction calculations, specifications, and plans; we should also be retained to participate in prebid and preconstruction conferences to clarify the opinions, conclusions, and recommendations contained in this report.

It should be understood that advancements in the practice of geotechnical engineering and engineering geology, or discovery of differing surface or subsurface conditions, may affect the

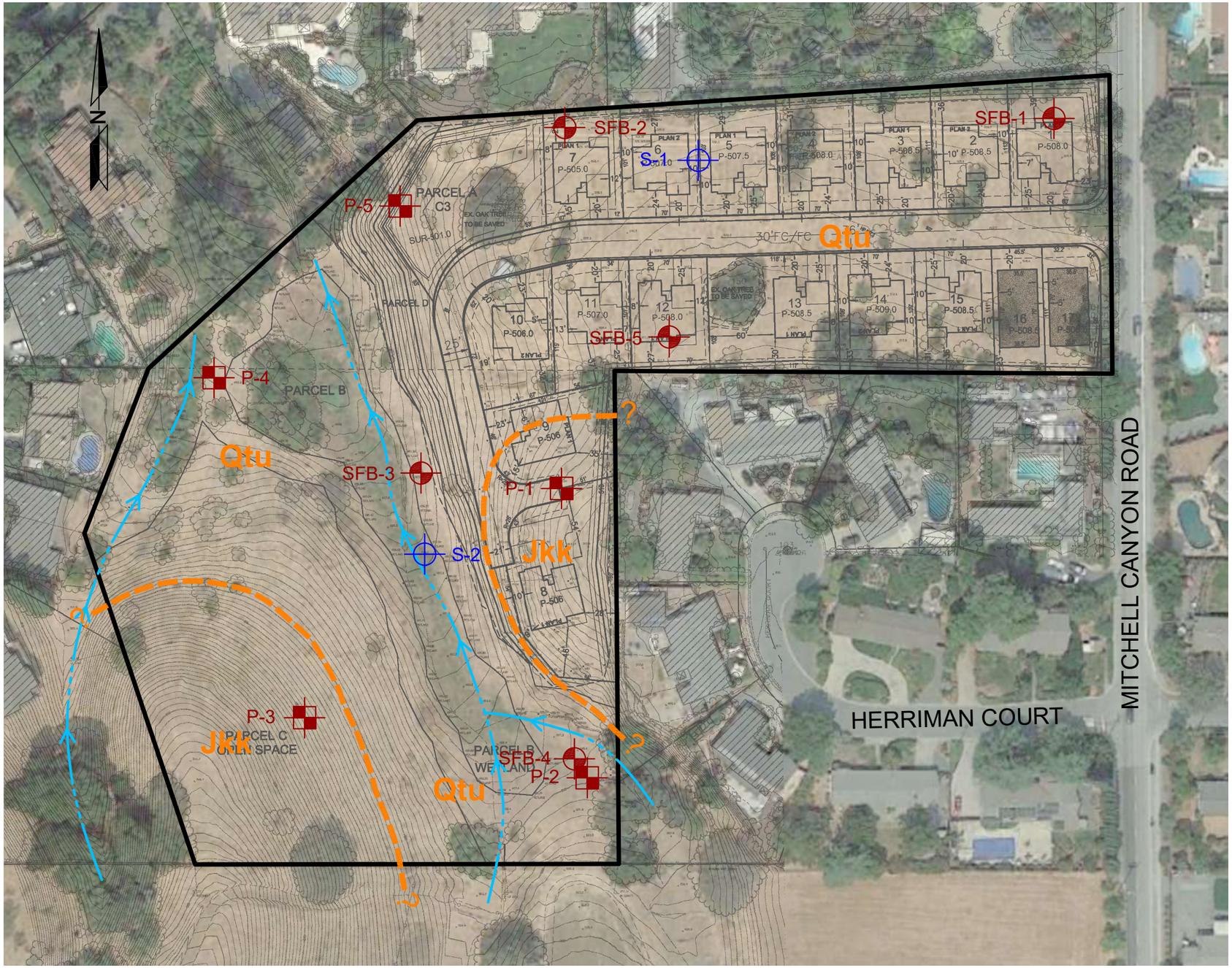
validity of this report and are not uncommon. SFB strives to perform its services in a proper and professional manner with reasonable care and competence but we are not infallible. Geological engineering and geotechnical engineering are disciplines that are far less exact than other engineering disciplines; therefore we should be consulted if it is not completely understood what the limitations to using this report are.

In the event that there are any changes in the nature, design or location of the project, as described in this report, or if any future additions are planned, the conclusions and recommendations contained in this report shall not be considered valid unless we are contacted in writing, the project changes are reviewed by us, and the conclusions and recommendations presented in this report are modified or verified in writing. The opinions, conclusions, and recommendations contained in this report are based upon the description of the project as presented in the introduction section of this report.

This report does not necessarily represent all of the information that has been communicated by us to DeNova Homes and their consultants during the course of this engagement and our rendering of professional services to DeNova Homes Reliance on this report by parties other than those described above must be at their own risk unless we are first consulted as to the parties' intended use of this report and only after we obtain the written consent of DeNova Homes to divulge information that may have been communicated to DeNova Homes We cannot accept consequences for use of segregated portions of this report.

Please refer to Appendix D for additional guidelines regarding use of this report.

FIGURES



KEY*

———	PROJECT LIMIT
P-5	SFB EXPLORATORY PIT (8/26/19)
SFB-5	SFB EXPLORATORY BORING (8/19/19)
S-2	PREVIOUS EXPLORATORY BORING (ABEL SOARES, 1976)
Qtu	PLIO-PLEISTOCENE GRAVELLY SOILS
Jkk	KNOXVILLE FORMATION SANDSTONE
?------?	GEOLOGIC CONTACT; QUERRIED WHERE NOT MAPPED
←———	EPHEMERAL DRAINAGE CHANNEL

*ALL LOCATIONS ARE APPROXIMATE

BASE: Overlayed project conceptual site plan prepared by Meridian Associates, Inc. and dated 1/20/20 on a Google Earth image dated 8/31/17.

APPROXIMATE SCALE: 1" = 100'

0' 100' 200'

DATE	PROJECT NO.
February 2020	155-90

Stevens Ferrone & Bailey Engineering Company, Inc
1600 Willow Pass Court
Concord, CA 94520
Tel 925.688.1001
Fax 925.688.1005
www.SFandB.com

SITE PLAN & ENGINEERING GEOLOGY MAP

MITCHELL CANYON ROAD
Clayton, California

FIGURE 1

APPENDIX A

Field Investigation

APPENDIX A
Field Investigation

Our field investigation for the proposed residential subdivision development to be located west of Mitchell Canyon Road in Clayton, California, consisted of surface reconnaissance and a subsurface exploration program. Geotechnical reconnaissance of the site and surrounding area was performed on August 14, 2019. Subsurface exploration was performed using a truck-mounted drill rig equipped with 4-inch diameter, continuous flight, solid stem augers and a Cat 430F2 backhoe. Five exploratory borings were drilled on August 19, 2019 to a maximum depth of about 21 feet below existing grade. Five exploratory test pits were excavated on August 26, 2019 to a maximum depth of about 6 feet below existing grade. Our representatives continuously logged the soils encountered in the borings and the pits in the field. The soils are described in general accordance with the Unified Soil Classification System (ASTM D2487). The logs of the borings and pits, as well as, a key for the classification of the soil (Figure A-1) and rocks mass characteristics (Figure A-2) are included as part of this appendix.

Representative samples were obtained from our exploratory borings and pits at selected depths appropriate to the investigation. Relatively undisturbed samples were obtained using a 3-inch O.D. split barrel sampler with liners, and disturbed samples were obtained using the 2-inch O.D. split spoon sampler. All samples were transmitted to our offices for evaluation and appropriate testing. Both sampler types are indicated in the "Sampler" column of the boring logs as designated in Figure A-1.

Resistance blow counts were obtained in our borings with the samplers by dropping a 140-pound safety hammer through a 30-inch free fall. The sampler was driven 18 inches and the number of blows were recorded for each 6 inches of penetration. The blows per foot recorded on the boring logs represent the accumulated number of converted blows that were required to drive the last 12 inches, or the number of inches indicated where hard resistance was encountered. The blow counts recorded on the boring logs have been converted to equivalent SPT field blow-counts, but have not been corrected for overburden, silt content, or other factors.

The attached boring and pit logs and related information show our interpretation of the subsurface conditions at the dates and locations indicated, and it is not warranted that they are representative of subsurface conditions at other locations and times.

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		grf	ltr	Description
Coarse Grained Soils	Gravel Gravelly Soils		GW	Well-graded gravels or gravel sand mixtures, little or no fines
			GP	Poorly-graded gravels or gravel sand mixture, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sand And Sandy Soils		SW	Well-graded sands or gravelly sands, little or no fines
			SP	Poorly-graded sands or gravelly sands, little or no fines
			SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, and-clay mixtures

Major Divisions		grf	ltr	Description
Soils	Silts And Clays LL < 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silt-clays of low plasticity
	Silts And Clays LL > 50		MH	Inorganic silts, micaceous or diatomaceous fine or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity
	Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZES

U.S. STANDARD SERIES SIEVE				CLEAR SQUARE SIEVE OPENINGS			
200	40	10	4	3/4"	3"	12"	

Silts and Clays	Sand			Gravel		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

RELATIVE DENSITY

Sands and Gravels	Blows/Foot*
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Over 50

CONSISTENCY

Silts and Clays	Blows/Foot*	Strength (tsf)**
Very Soft	0 - 2	0 - 1/4
Soft	2 - 4	1/4 - 1/2
Firm	4 - 8	1/2 - 1
Stiff	8 - 16	1 - 2
Very Stiff	16 - 32	2 - 4
Hard	Over 32	Over 4

*Number of Blows for a 140-pound hammer falling 30 inches, driving a 2-inch O.D. (1-3/8" I.D.) split spoon sampler.
**Unconfined compressive strength.

SYMBOLS & NOTES

- Standard Penetration sampler (2" OD Split Barrel)
- Modified California sampler (3" OD Split Barrel)
- California Sampler (2.5" OD Split Barrel)
- Shelby Tube
- Pitcher Barrel
- HQ Core
- Ground Water level initially encountered
- Ground Water level at end of drilling

PI = Plasticity Index
LL = Liquid Limit
R = R-Value

Increasing Visual Moisture Content

Saturated
Wet
Moist
Damp
Dry

Constituent Percentage

trace	<5%
some	5-15%
with	16-30%
-y	31-49%

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO EXPLORATORY BORING LOGS

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	FIGURE NO.
155-90	February 2020	A-1

KEY 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

ROCK MASS CHARACTERISTICS

WEATHERING

FRESH - Rock fresh, crystals bright, few joints may show slight staining. Rock rings under hammer blows if crystalline.

VERY SLIGHT - Rock generally fresh, joints stained, some joints may show thin clay coatings, crystals in broken face show bright. Rings under hammer blows if crystalline.

SLIGHT - Rock generally fresh, joints stained, and discoloration extends into rock up to 1 inch. Joints may contain clay. In granitiod rocks, some occasional feldspar crystals are dull and discolored. Crystalline rock rings under hammer blows.

MODERATE - Significant portions of rock show discoloration and weathering effects. In granitiod rocks, most feldspars are dull and discolored; some show clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.

MODERATELY SEVERE - All rock except quartz discolored or stained. In granitiod rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick. Rock goes "clunk" when struck.

SEVERE - All rock except quartz discolored or stained. Rock "fabric" clear and evident, but reduced in strength to strong soil. In some granitiod rocks, all feldspars kaolinized to some extent. Some fragments of strong rock usually remain.

VERY SEVERE - All rock except quartz discolored or stained. Rock "fabric" discernible, but rock mass effectively reduced to "soil" with only fragments of strong rock remaining.

COMPLETE - Rock reduced to "soil." Rock "fabric" not discernible or discernible only in small scattered locations. Quartz may be present as dikes or stringers.

STRENGTH

VERY STRONG - Resists breakage from hammer blows; but will yield dust and small chips.
STRONG - Withstands a few hammer blows; but will yield large fragments.
MODERATELY STRONG - Withstands a few firm hammer blows.
WEAK - Crumbles with light hammer blows.
FRIABLE - Can be broken down with hand and finger pressure.
LOW - Soil-like strength

DISCONTINUITY SPACING

JOINTS	BEDDING, CLEAVAGE, FOLIATION		
CRUSHED	Very Laminated	Less than 1/2 inch	Less than 1.3 cm
INTENSELY	Laminated	1/2 to 1 inch	1.3 cm to 2.5 cm
VERY CLOSE	Very Thin	1 to 2 inches	2.5 cm to 5 cm
CLOSE	Thin	2 inches to 1 foot	5 cm to 30 cm
MODERATELY CLOSE	Medium	1 foot to 3 feet	30 cm to 1 m
WIDE	Thick	3 feet to 10 feet	1 m to 3 m
VERY WIDE	Very Thick	Greater than 10 feet	Greater than 3 m

HARDNESS

VERY HARD - Cannot be scratched with a knife; metal powder left on sample.
HARD - Scratched with knife with difficulty; trace of metal powder left on samples; scratch faintly visible.
MODERATELY HARD - Readily scratched with knife, scratch leaves heavy trace of dust and is readily visible.
LOW HARDNESS - Gouged or grooved to 1/16 inch by firm pressure on knife; scratches with penny.
SOFT - Gouged or grooved readily with a knife; small thin pieces can be grooved by finger pressure.
VERY SOFT - Carves with knife; scratched by fingernail.

ROUGHNESS OF DISCONTINUITY SURFACES

SMOOTH - Appears smooth and is essentially smooth to the touch. May be slickensided.
SLIGHTLY ROUGH - Asperities on the fracture are clearly visible.
MEDIUM ROUGH - Asperities are clearly visible and fracture surface feels abrasive.
ROUGH - Large angular asperities can be seen. Some ridge and high side angle steps are evident.
VERY ROUGH - Near vertical steps and ridges occur on the fracture surface.

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO ROCK CHARACTERISTICS

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	FIGURE NO.
155-90	**February 2020**	**A-2**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE	DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
CLAY (CL), reddish-brown, silty, with sand(fine- to medium-grained), trace gravel(fine, subangular to subrounded), with rootlets, dry.	very stiff		0		16	12	100	3.5	At 2 feet: Liquid Limit = 32% Plasticity Index = 14 Fine Gravel = 4% Coarse Sand = 4% Medium Sand = 6% Fine Sand = 12% Silt = 38% Clay = 36%
	hard				67				
Change color to mottled reddish-brown with black streaks, some sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), with sand clasts.	very stiff		5		23	18	109		
CLAY (CL), mottled brown, silty, with sand(fine- to medium-grained), with gravel(fine, subangular to subrounded), dry to damp.	hard								
With rock fragments.			10		68/11"				
SAND (SC), yellowish-brown, fine- to coarse-grained, with clay, some to with gravel(fine, subangular to subrounded), some silt, damp to moist. Some clay, damp.	dense		15		30/3"				
CLAY (CL), brown, silty, with sand(fine- to coarse-grained), damp.	hard		20		50/6"				
Bottom of Boring = 21 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.									

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-1**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), reddish-brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), with sand clasts, damp.	very stiff		0		16	19	104	6.3	
Change color to mottled reddish-brown and light brown, dry to damp.	hard				52				
			5		30/6"				
			10		30/4"				
SAND (SC), yellowish-brown, fine- to coarse-grained, some clay, trace silt, trace gravel(fine, subangular to subrounded), damp.	dense to very dense								
			15		50/6"				
Bottom of Boring = 16 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-2**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER 10 feet	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), brown, silty, some sand(fine- to coarse-grained), dry to damp.	very stiff		0		16	26	93	6.0	
					25				
CLAY (CL), mottled reddish-brown and light brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), damp.	very stiff		5		36	23	100	5.9	
CLAY (CL), yellowish-brown, silty, with sand(fine- to medium-grained), with carbonates, damp.	hard								
CLAY (CL), mottled olive and yellowish-brown, silty, some sand(fine- to coarse-grained), with rock fragments, damp to moist.	hard		10		53				
Thin lense of rock at 11 feet.									
SAND (SC), brown, fine- to coarse-grained, with clay, some silt, with rock fragments, moist to wet.	dense to very dense		15		50/6"				
Drilling refusal at 17 feet.									
Bottom of Boring = 17 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-3**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), yellowish-brown, silty, sandy(fine- to coarse-grained), dry.	hard		0						
GRAVEL (GM), drilling refusal.	dense				30/6" 50/2"				
Bottom of Boring = 2.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			5						
			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.

1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-4**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), yellowish-brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), dry.	very stiff		0		30/6"	14	110	7.1	
With rock fragments.	hard				50/5"				
Change color to mottled reddish-brown and light brown, sandy(fine- to coarse-grained).			5		50/6"	11			
SAND (SM), yellowish-brown, fine- to medium-grained, silty, with gravel(fine, subangular to subrounded), trace clay, with rock fragments, dry to damp.	dense to very dense		10		50/6"	9			
GRAVEL (GM), drilling refusal.					50/6"				
Bottom of Boring = 12.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			15						
			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-5**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, sandy(fine-grained), some clay, dry.	soft		0						
SANDSTONE, mottled brown-black-gray, some clay coated surfaces, deeply to moderately weathered, low hardness, very closely fractured, chaotic fracture orientation, damp.	friable to moderately strong		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-1**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), brown, with silt, with sand(fine- to coarse-grained), trace gravel(fine to coarse, subangular to subrounded), damp.	stiff		0						Bag sample at 1-2 feet At 1-2 feet: Liquid Limit = 58% Plasticity Index = 39 Fine Gravel = 1% Coarse Sand = 3% Medium Sand = 6% Fine Sand = 10% Silt = 22% Clay = 58% Bag sample at 3 feet
GRAVEL (GM), mottled grayish-brown, fine to coarse, subangular to subrounded, sandy(fine- to coarse-grained), silty, damp.	medium dense		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-2**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, trace to some clay, trace sand(fine-grained), dry to damp.	soft		0						Bag sample at 1-3 feet
SANDSTONE, mottled dark brown, clay coated surfaces, deeply to moderately weathered, low hardness, very closely fractured, chaotic fracture orientation, damp.	friable to moderately strong		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-3**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, some clay, trace sand(fine-grained), trace roots, dry.	soft		0						
CLAY (CL)/SILT (ML), mottled brown, some sand(fine- to coarse-grained), some gravel(fine to coarse, subangular to subrounded), with tree roots to 3', damp.	stiff								
Change color to reddish-brown, increasing clay content with depth.	very stiff		5						
Bottom of Boring = 6 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

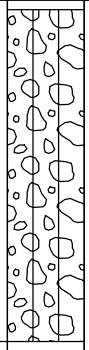
Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-4**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
GRAVEL (GM), reddish-brown, fine to coarse, subangular to subrounded, with sand(fine- to coarse-grained), with silt, some clay, trace cobbles, damp.	medium dense		0 5						
Bottom of Boring = 6 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10 15 20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-5**

APPENDIX B

Laboratory Investigation

APPENDIX B
Laboratory Investigation

Our laboratory testing program for the proposed residential subdivision development to be located west of Mitchell Canyon Road in Clayton, California was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site.

The natural water content was determined on nine samples of the subsurface soils. The water contents are recorded on the boring logs at the appropriate sample depths.

Dry density determination was performed on six samples of the subsurface soils to evaluate their physical properties. The results of the tests are shown on the boring logs at the appropriate sample depths.

Atterberg Limit determinations were performed on two samples of the subsurface soils to determine the range of water content over which these materials exhibit plasticity. These values are used to classify the soil in accordance with the Unified Soil Classification System and to indicate the soil's compressibility and expansion potentials. The results of these tests are presented on the boring and pit log at the appropriate sample depth and are also attached to this appendix.

Gradation and hydrometer tests were performed on two samples of the subsurface soils. These tests were performed to assist in the classification of the soils and to determine their grain size distribution. The results of the tests are presented on the boring and pit log at the appropriate sample depth and are also attached to this appendix.

Unconfined compression tests were performed on five relatively undisturbed samples of the subsurface soils to evaluate the undrained shear strengths of these materials. Failure was taken as the peak normal stress. The results of the tests are presented on the boring logs at the appropriate sample depths and are also attached to this appendix

Four onsite soil samples were tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in this appendix. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors.

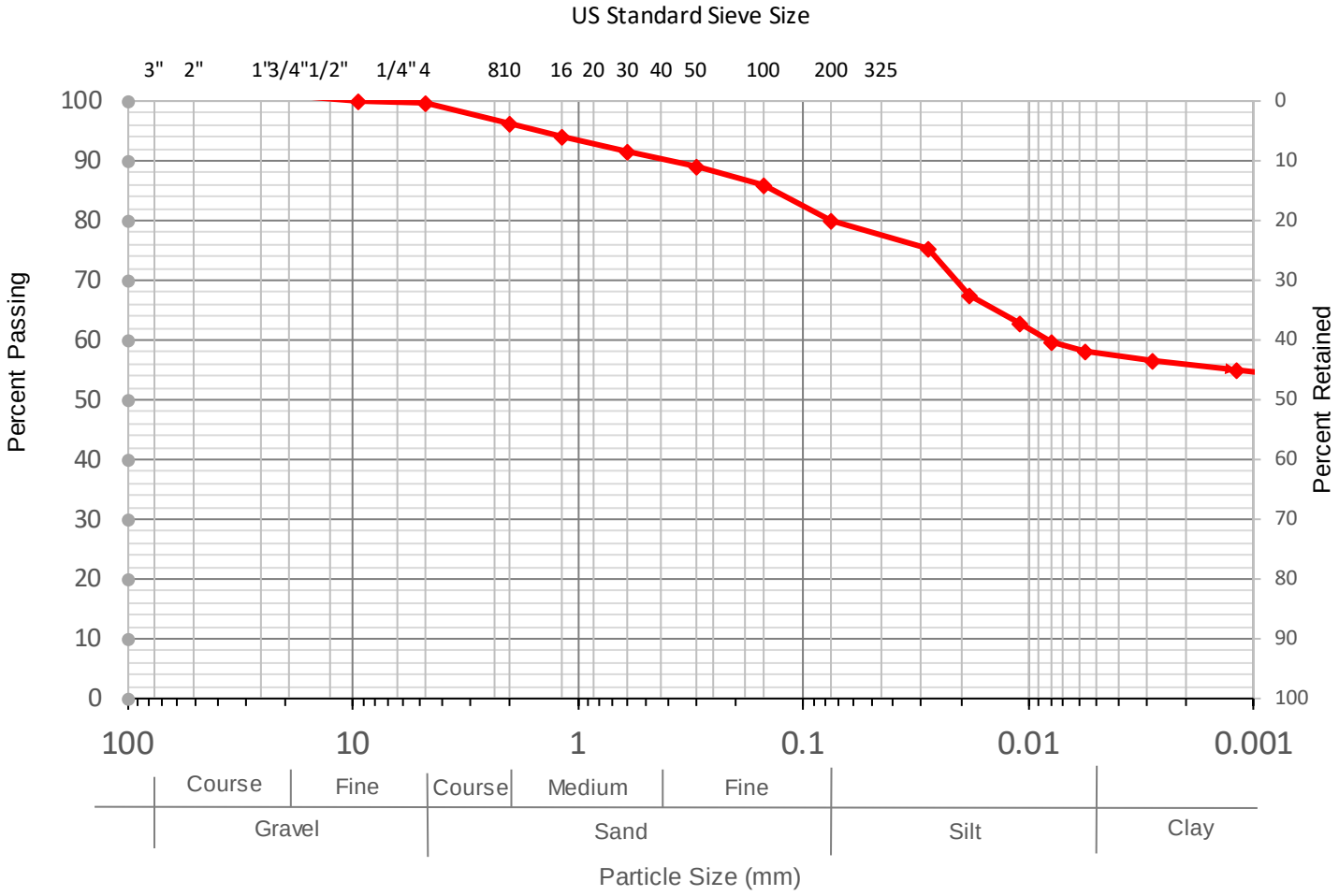
Stevens Ferrone & Bailey Engineering Company, Inc

Hydrometer Analysis – ASTM D422

Project Number: 155-90 **Project Name:** Mitchell Canyon

Sample Number: P-2 **Description:** Brown silty CLAY with sand (CH)

Depth : 1'-2' **Test Date:** 08-27-19 **Tested By:** R



Composite Sieve Data

Standard Sieve Size	Percent Passing
3"	
1.5"	
3/4"	
3/8"	100
#4	99.8
#10	96.3
#16	94.1
#30	91.4
#50	88.9
#100	85.8
#200	80.1

Particle Diameter (mm)	Percent Soil in Suspension
0.0280	75.4
0.0185	67.6
0.0110	62.8
0.0079	59.7
0.0056	58.1
0.0028	56.6
0.0012	55.0

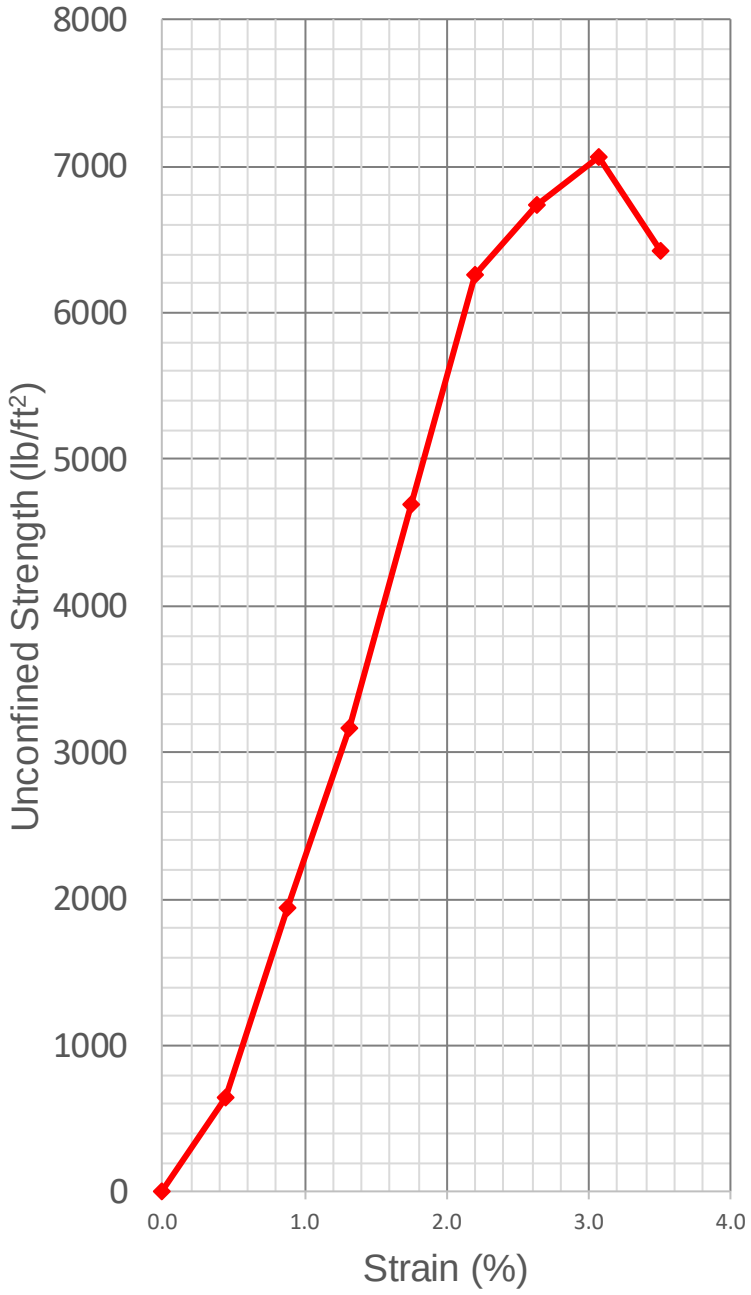
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-5 **Depth :** 1.5

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Red brown silty CLAY with sand and shale some gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.7 in
Volume	0.01517 ft^3
Water Content	14.1 %
Wet Density	125.0 pcf
Dry Density	109.6 pcf

Max Unconfined Compressive Strength	
Elapsed Time	3.5 min
Vertical Dial	0.175 in
Strain	3.1 %
Area	0.03296 ft^2
Axial Load	232.8 lbs
Compressive Strength	7,064 psf

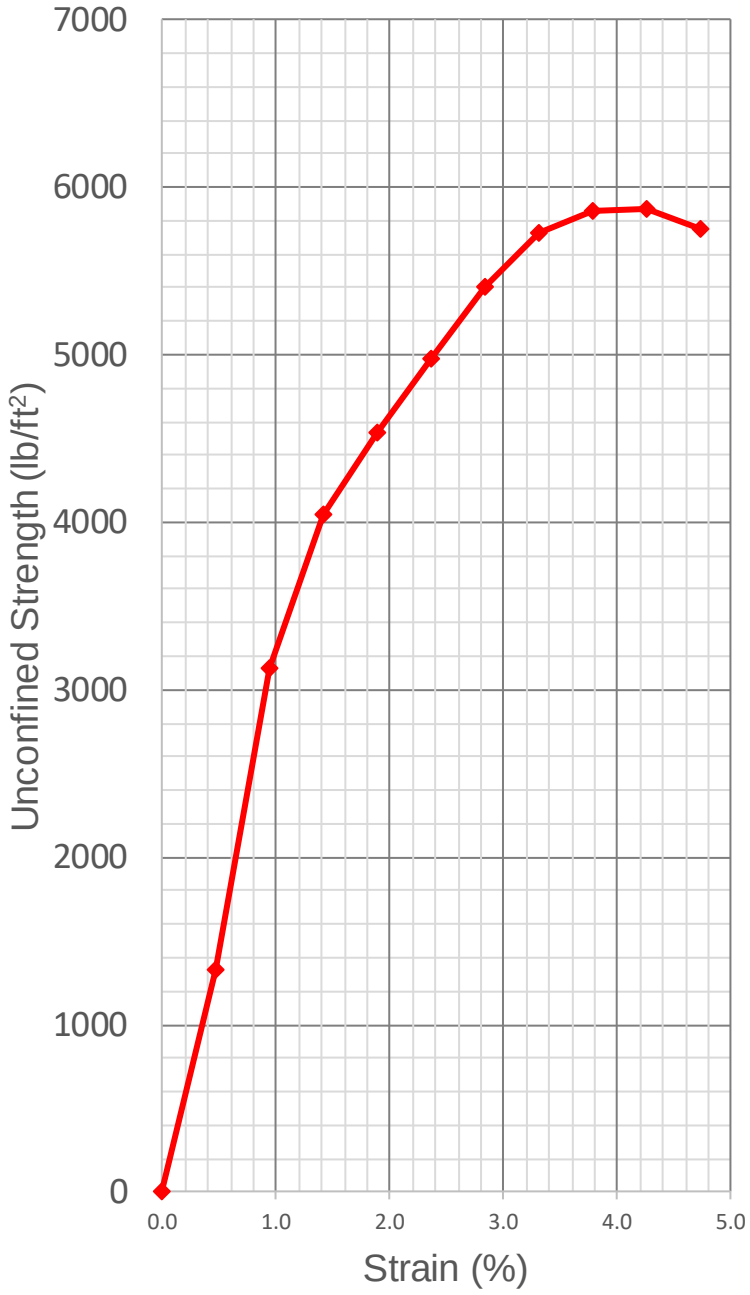
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-3 **Depth :** 6

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Brown silty CLAY with sand (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.29 in
Volume	0.01408 ft^3
Water Content	22.8 %
Wet Density	123.2 pcf
Dry Density	100.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	4.5 min
Vertical Dial	0.225 in
Strain	4.3 %
Area	0.03336 ft^2
Axial Load	196.0 lbs
Compressive Strength	5,875 psf

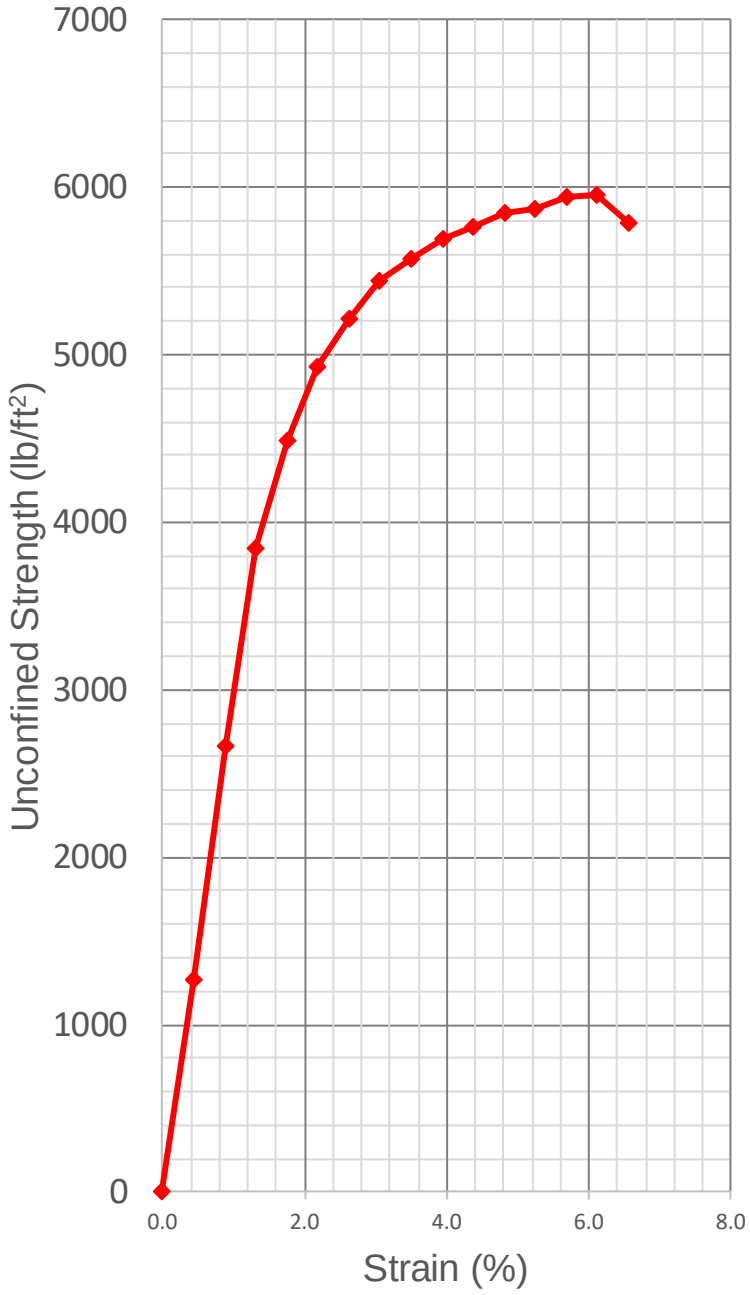
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-3 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Dark brown silty CLAY some sand (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.72 in
Volume	0.01523 ft^3
Water Content	26.1 %
Wet Density	116.6 pcf
Dry Density	92.5 pcf

Max Unconfined Compressive Strength	
Elapsed Time	7 min
Vertical Dial	0.35 in
Strain	6.1 %
Area	0.03403 ft^2
Axial Load	202.7 lbs
Compressive Strength	5,957 psf

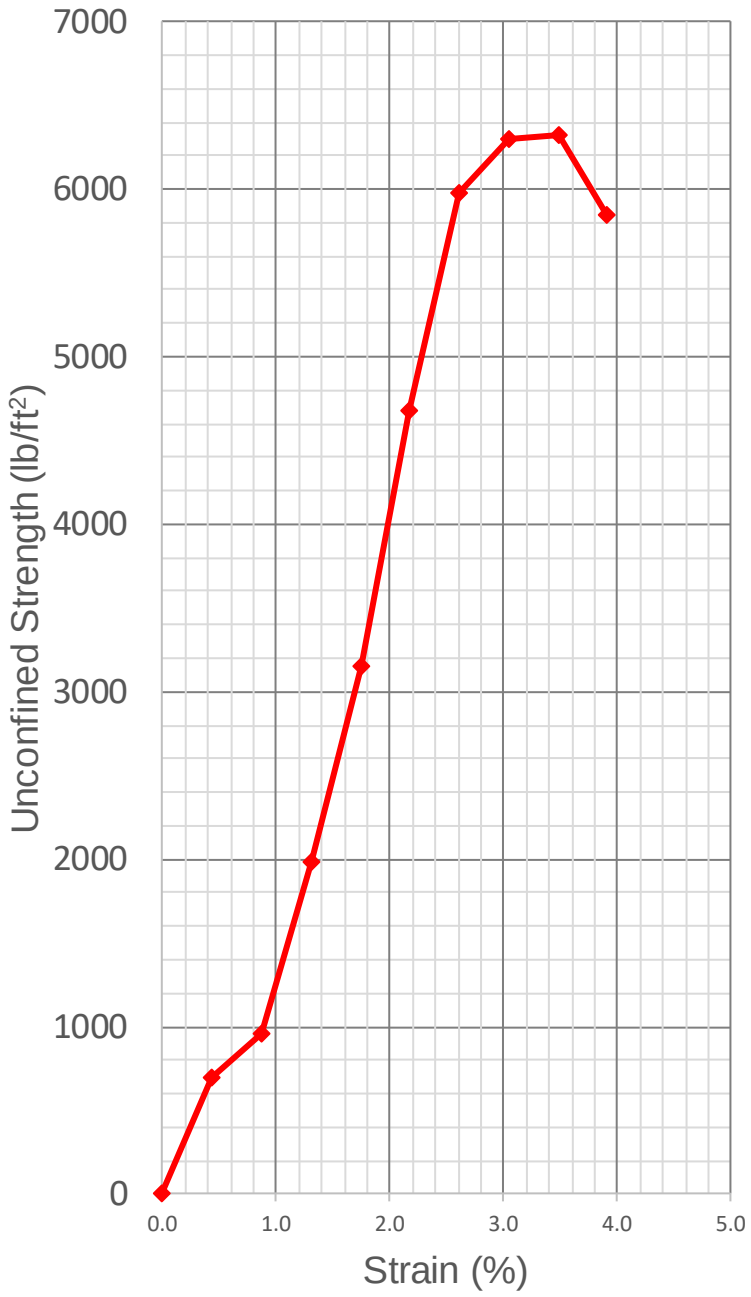
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-2 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Red brown silty CLAY with sand some gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.75 in
Volume	0.01531 ft^3
Water Content	19.2 %
Wet Density	124.3 pcf
Dry Density	104.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	4 min
Vertical Dial	0.2 in
Strain	3.5 %
Area	0.03310 ft^2
Axial Load	209.4 lbs
Compressive Strength	6,327 psf

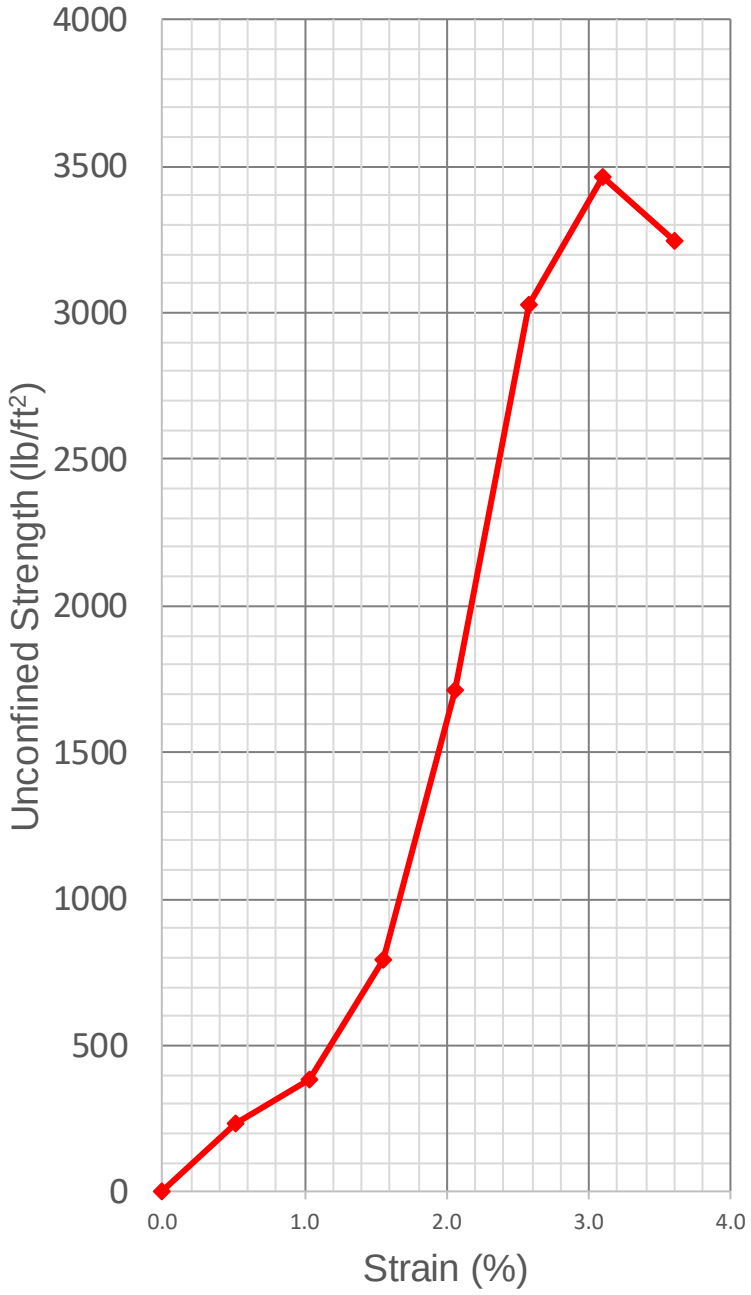
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-1 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/20/2019

Description: Red brown silty CLAY with sand trace gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	4.85 in
Volume	0.01291 ft^3
Water Content	12.4 %
Wet Density	112.7 pcf
Dry Density	100.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	3 min
Vertical Dial	0.15 in
Strain	3.1 %
Area	0.03296 ft^2
Axial Load	114.3 lbs
Compressive Strength	3,467 psf

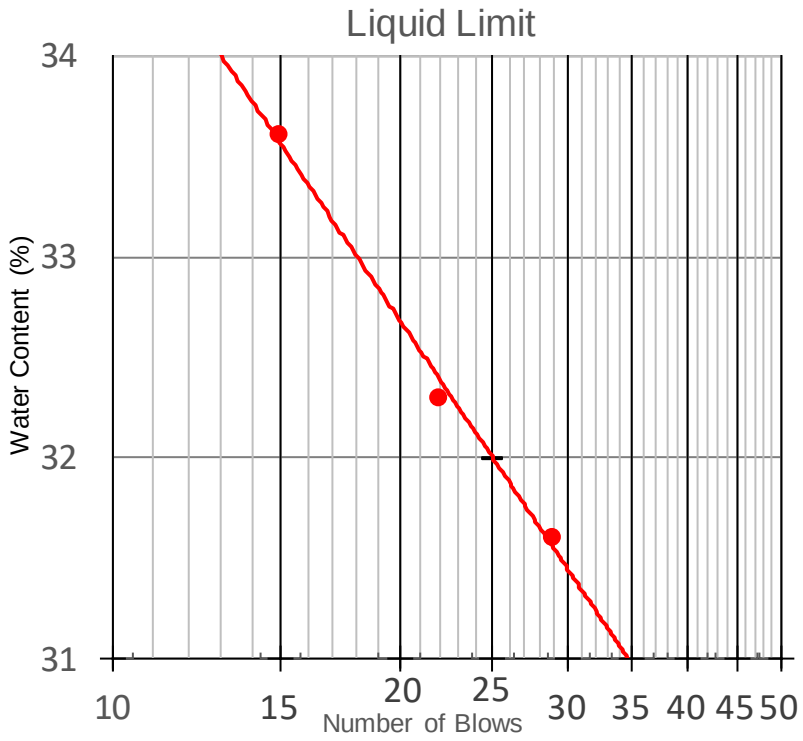
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 155-90 **Project Name:** Mitchell Canyon

Boring/Sample No: SFB-1 **Depth:** 2 **Date:** 08-22-19

Description of Sample: Red brown silty CLAY with sand trace gravel (CL) **Tested By** R

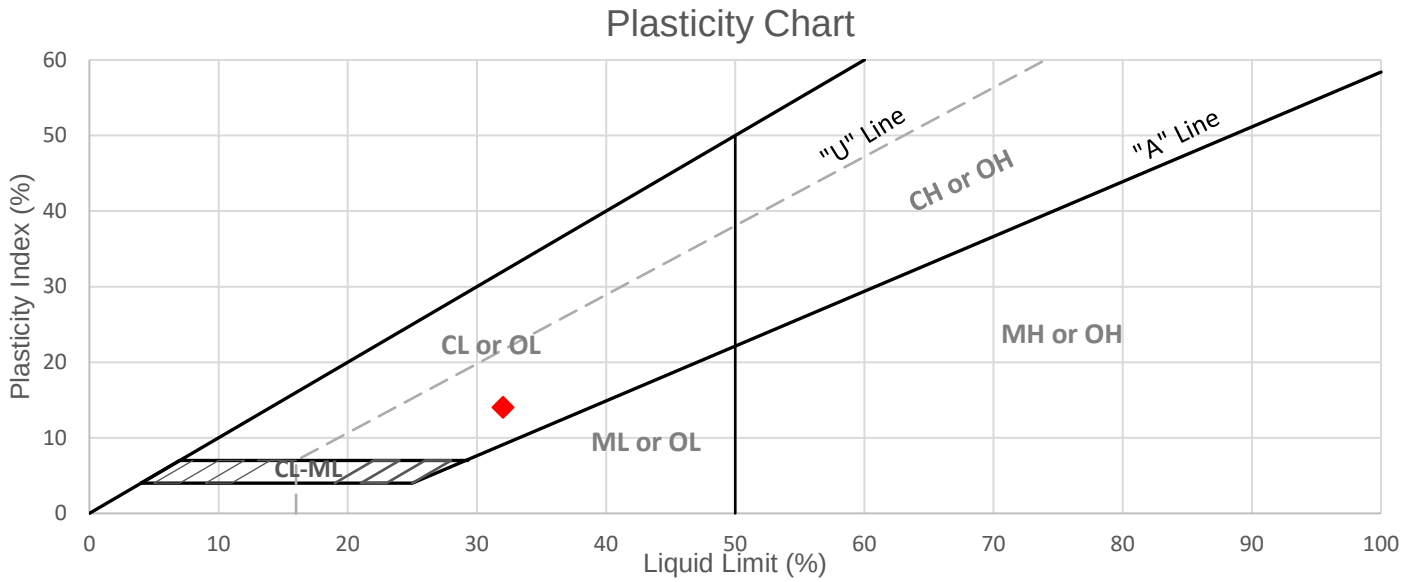


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	17.4	17.6	17.5

Data Summary

Liquid Limit	**32**
Plastic Limit	**18**
Plasticity Index	**14**
Natural Water Content	**12.4**
Liquidity Index	**-0.400**
% Passing #200 Sieve	**73.7**



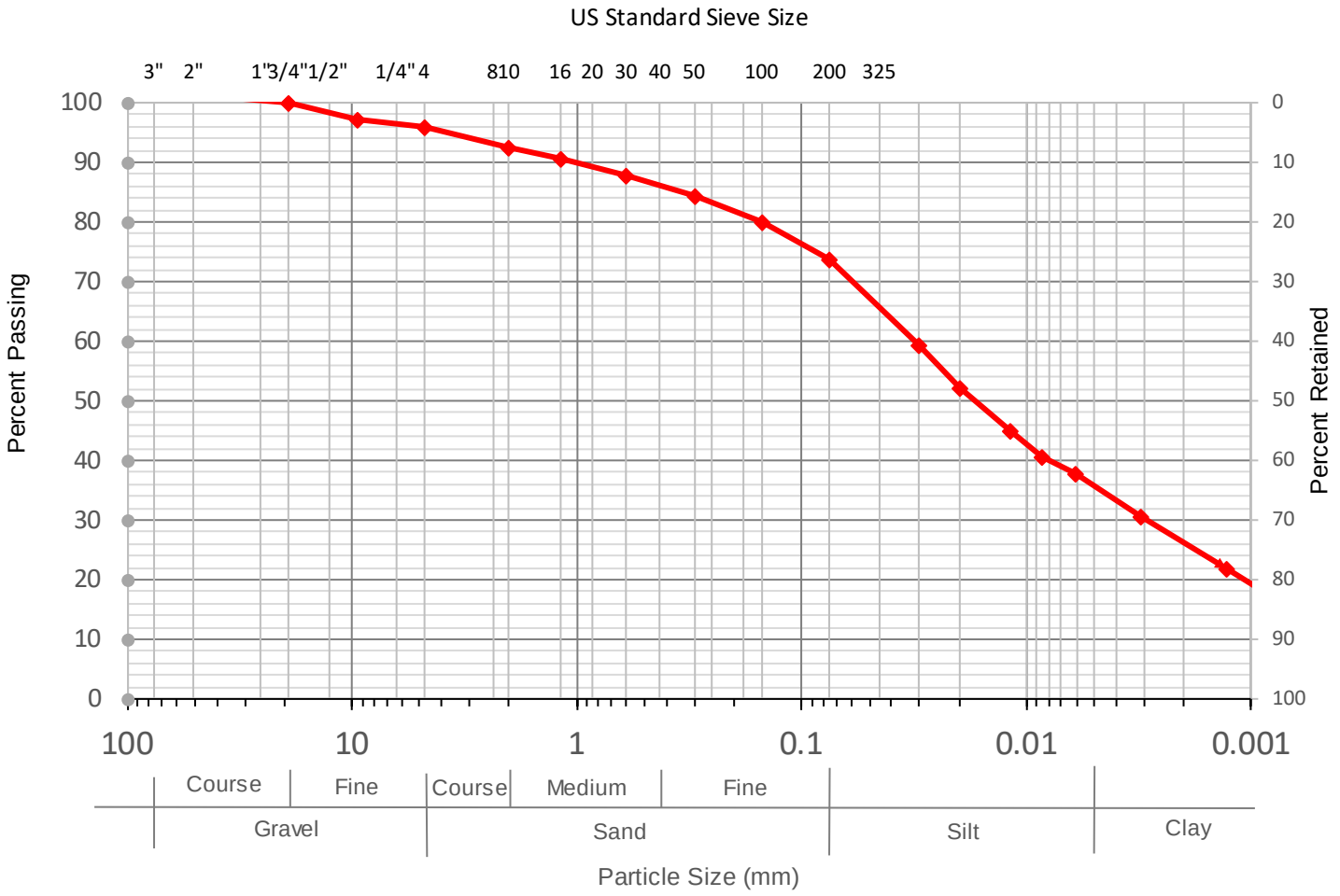
Stevens Ferrone & Bailey Engineering Company, Inc

Hydrometer Analysis – ASTM D422

Project Number: 155-90 **Project Name:** Mitchell Canyon

Sample Number: SFB-1 **Description:** Red brown silty CLAY with sand trace gravel (CL)

Depth : 1.5 **Test Date:** 08-21-19 **Tested By:** R



Composite Sieve Data

Standard Sieve Size	Percent Passing
3"	
1.5"	
3/4"	100.0
3/8"	97.0
#4	95.9
#10	92.5
#16	90.5
#30	87.7
#50	84.3
#100	79.9
#200	73.7

Particle Diameter (mm)	Percent Soil in Suspension
0.0299	59.5
0.0197	52.2
0.0118	45.0
0.0085	40.6
0.0061	37.7
0.0031	30.5
0.0013	21.8

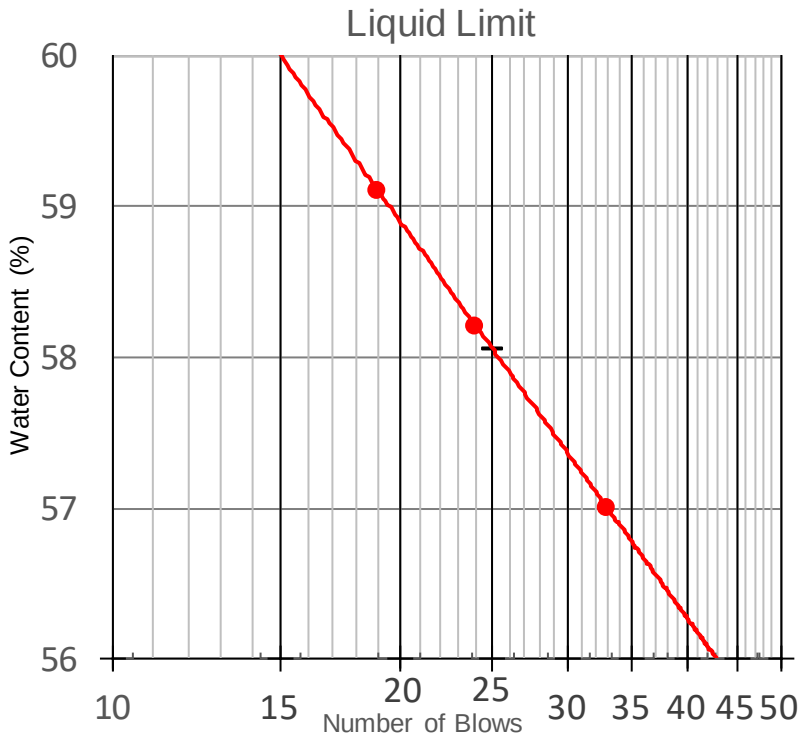
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 155-90 **Project Name:** Mitchell Canyon

Boring/Sample No: P-2 **Depth:** 1'-2' **Date:** 08-26-19

Description of Sample: Brown silty CLAY with sand (CH) **Tested By** R

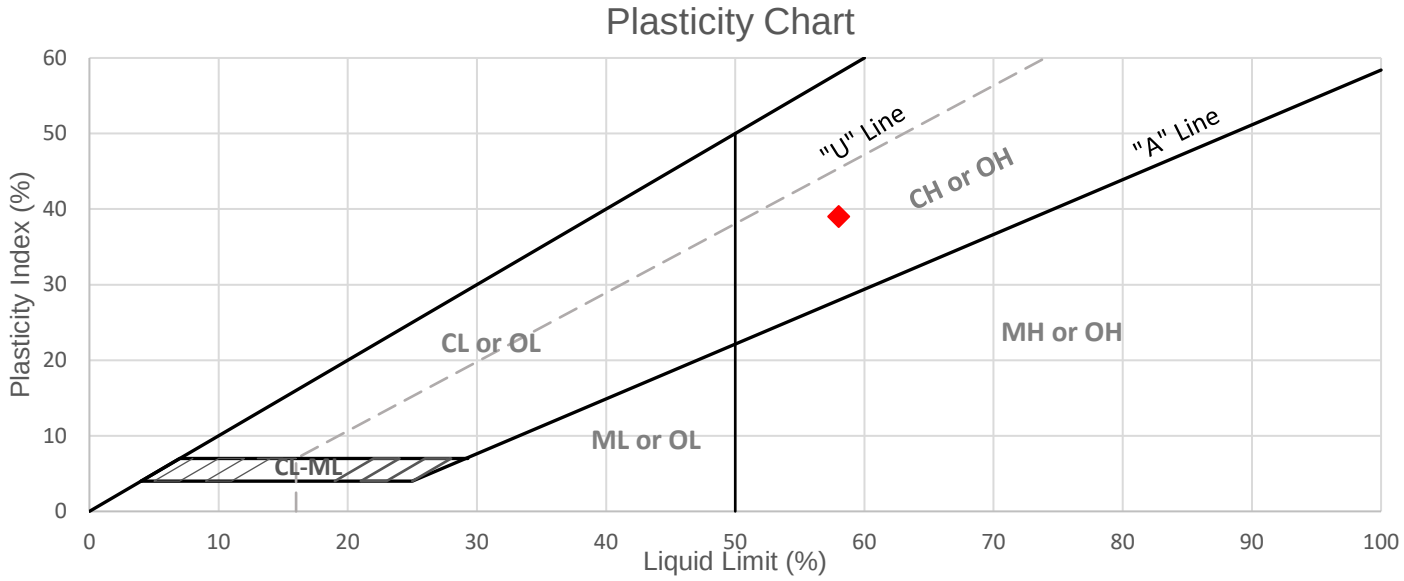


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	18.8	19.1	19.0

Data Summary

Liquid Limit	**58**
Plastic Limit	**19**
Plasticity Index	**39**
Natural Water Content	**20.7**
Liquidity Index	**0.044**
% Passing #200 Sieve	**80.1**



California State Certified Laboratory No. 2153

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

4 September, 2019

Job No.1908149
Cust. No.11486

Ms. Hayley Palilla
Stevens, Ferrone & Bailey
1600 Willow Pass Court
Concord, CA 94520

Subject: Project No.: SFB 143-4
Project Name: Mitchell Canyon Road, Clayton, CA
Corrosivity Analysis – ASTM Test Methods

Dear Ms. Palilla:

Pursuant to your request, CERCO Analytical has analyzed the soil samples submitted on August 20, 2019. Based on the analytical results, this brief corrosivity evaluation is enclosed for your consideration.

Based upon the resistivity measurements, Samples No.001 & No.004 are classified as "corrosive" and Samples No.002 & No.003 are classified as "moderately corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentrations are none detected & 57 mg/kg and determined to be insufficient to attack steel embedded in a concrete mortar coating.

The sulfate ion concentrations are none detected & 430 mg/kg and are determined to be sufficient to potentially be detrimental to reinforced concrete structures and cement mortar-coated steel at these locations. Therefore, concrete that comes into contact with this soil should use sulfate resistant cement such as Type II, with a maximum water-to-cement ratio of 0.55.

The sulfide ion concentrations reflect none detected with a reporting limit of 50 mg/kg.

The pH of the soils ranged from 6.75 to 7.97 which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potentials ranged from 250 to 300-mV. All samples are indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc. at (925) 927-6630.*

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.

J. Darby Howard, Jr., P.E.
President

JDH/jdl
Enclosure

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: Stevens, Ferrone & Bailey
Client's Project No.: 143-4
Client's Project Name: Mitchell Canyon Road, Clayton, CA
Date Sampled: 19-Aug-19
Date Received: 20-Aug-19
Matrix: Soil
Authorization: Signed Chain of Custody

Date of Report: 4-Sep-2019

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Conductivity (umhos/cm)*	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
1908149-001	SFB-1 @ 3.5'	250	6.76	-	1,400	N.D.	N.D.	N.D.
1908149-002	SFB-2 @ 3.5'	300	6.75	-	4,200	N.D.	N.D.	N.D.
1908149-003	SFB-3 @ 11'	280	7.36	-	3,100	N.D.	N.D.	N.D.
1908149-004	SFB-4 @ 1'	270	7.97	-	790	N.D.	57	430

Method:	ASTM D1498	ASTM D4972	ASTM D1125M	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	10	-	50	15	15
Date Analyzed:	29-Aug-2019	29-Aug-2019	-	4-Sep-2019	3-Sep-2019	3-Sep-2019	3-Sep-2019

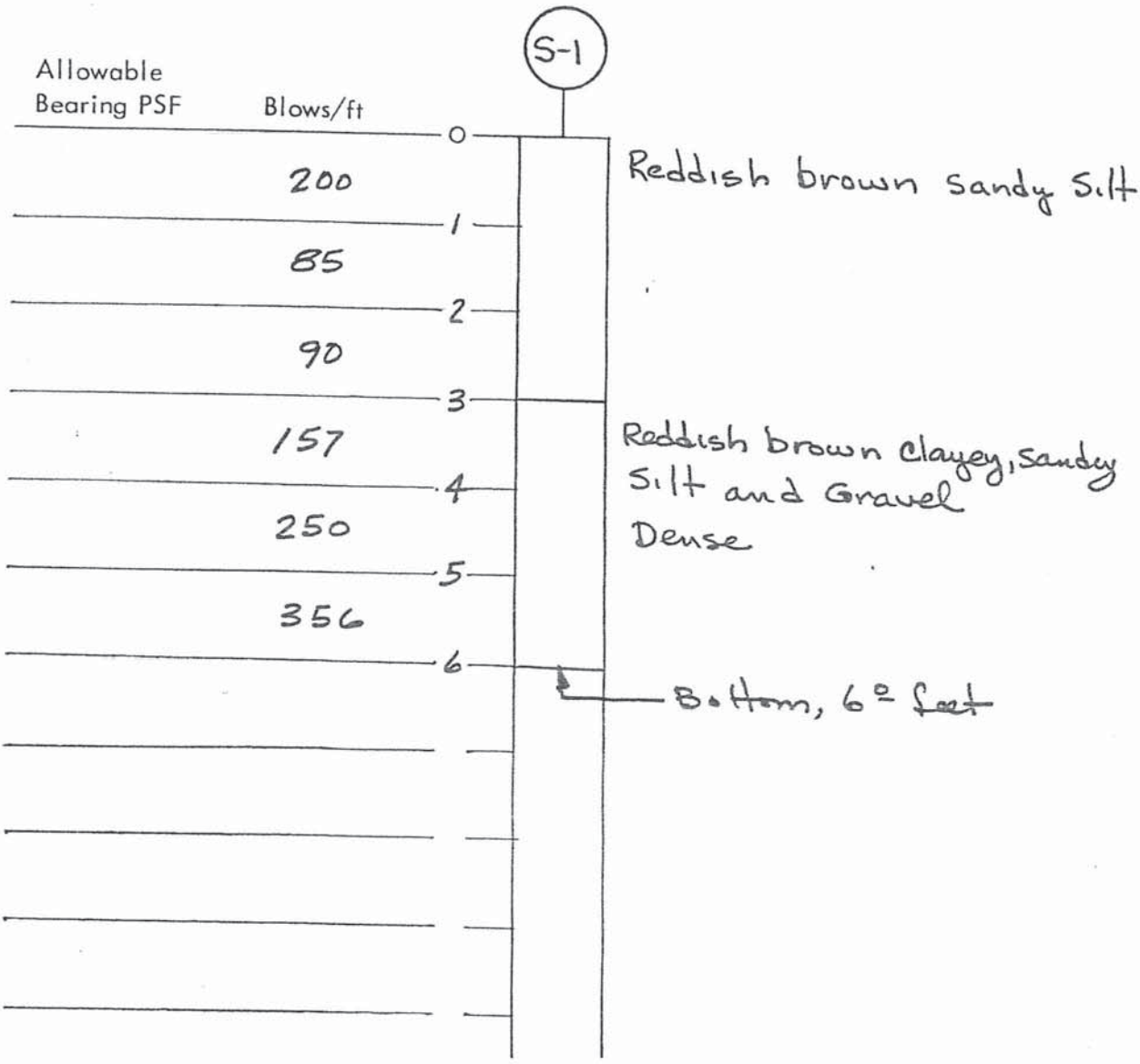
Cheryl McMillen
Laboratory Director

* Results Reported on "As Received" Basis
N.D. - None Detected

Quality Control Summary - All laboratory quality control parameters were found to be within established limits

APPENDIX C

Logs of Previous Borings by Others

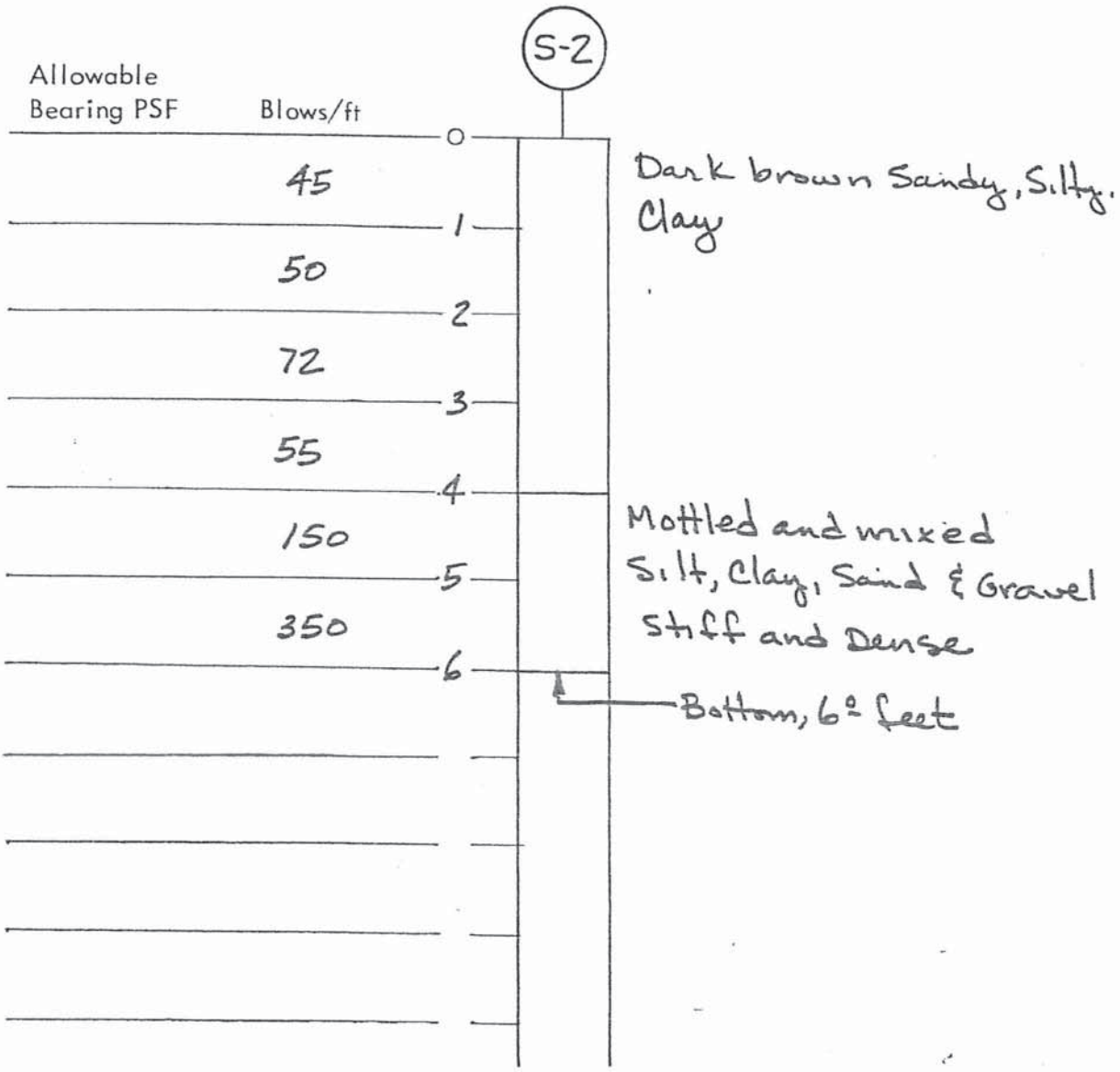


S borings taken with hand driven "porter-type" one inch sampler. Blow counts based upon 25 pounds falling 15 inches. Blow count is not the standard ASTM blow count ("N" value). For standard ASTM blow count, divide by five. (approximate only).

Location Mitchell Canyon Rd. Clayton
Job# 166-2
Drawn by ARS Date 7-13-76
Checked by ____ Date ____
Scale 1"=2'

LOG OF TEST BORINGS

ABEL R. SOARES and ASSOCIATES
soil engineers and geologists
3625 Pinole Valley Road 415-758-5651
Pinole, California 94564



S borings taken with hand driven "porter-type" one inch sampler. Blow counts based upon 25 pounds falling 15 inches. Blow count is not the standard ASTM blow count ("N" value). For standard ASTM blow count, divide by five. (approximate only).

Location Mitchell Canyon Rd. Clayton Job# 166-2 Drawn by ARS Date 7-13-76 Checked by ____ Date ____ Scale 1" = 2'	LOG OF TEST BORINGS	ABEL R. SOARES and ASSOCIATES soil engineers and geologists 3625 Pinole Valley Road 415-758-5651 Pinole, California 94564

APPENDIX D

ASFE Guidelines

Important Information about Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; ***none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.***

Rely on Your ASFE-Member Geotechnical Engineer for Additional Assistance

Membership in ASFE/The Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE THE GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@asfe.org www.asfe.org

Copyright 2004 by ASFE, Inc. Duplication, reproduction, or copying of this document, in whole or in part, by any means whatsoever, is strictly prohibited, except with ASFE's specific written permission. Excerpting, quoting, or otherwise extracting wording from this document is permitted only with the express written permission of ASFE, and only for purposes of scholarly research or book review. Only members of ASFE may use this document as a complement to or as an element of a geotechnical engineering report. Any other firm, individual, or other entity that so uses this document without being an ASFE member could be committing negligent or intentional (fraudulent) misrepresentation.

IIGER01115.0MRP

Appendix D
Phase I Environmental Site Assessment

Phase I Environmental Site Assessment
CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1, Clayton, California

24 February 2020
Project No. 20-4996

PREPARED FOR:

Mr. Trent Sanson
DeNOVA HOMES, INC.

PREPARED BY:

AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical
Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

Phase I Environmental Site Assessment
CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1, California

24 February 2020
Project No. 20-4996

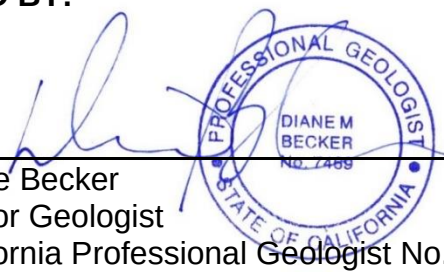
AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical

Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

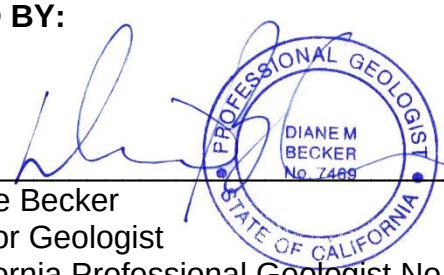
PREPARED BY:



Diane Becker
Senior Geologist
California Professional Geologist No. 7469

Timothy J. Cuellar
Senior Geologist

REVIEWED BY:



Diane Becker
Senior Geologist
California Professional Geologist No. 7469

TABLE OF CONTENTS

SECTION **PAGE**

EXECUTIVE SUMMARY..... 1
1.0. INTRODUCTION..... 3
1.1. PURPOSE..... 3
1.2. SITE DESCRIPTION..... 4
1.2.1. Location and Legal Description..... 4
1.2.2. Site and Vicinity General Characteristics..... 4
1.2.3. Current Use of Property..... 4
1.2.4. Proposed Use of Property..... 4
1.2.5. Property Utilities..... 4
1.3. DETAILED SCOPE-OF-SERVICES..... 5
1.4. SIGNIFICANT ASSUMPTIONS..... 5
1.5. LIMITATIONS AND EXCEPTIONS..... 5
1.6. SPECIAL TERMS AND CONDITIONS..... 6
1.7. USER RELIANCE..... 6
2.0. USER PROVIDED INFORMATION..... 6
3.0. RECORDS REVIEW..... 7
3.1. HISTORICAL USE INFORMATION..... 7
3.1.1. Historical Use Information on Subject Property..... 7
3.1.1.1. Sanborn Fire Insurance Maps..... 7
3.1.1.2. Aerial Photographs..... 7
3.1.1.3. Historical Topographic Maps..... 8
3.1.1.4. Street Directories..... 9
3.1.1.5. Building Department Records..... 9
3.1.1.6. Assessor's Records..... 9
3.1.1.7. Previous Phase I and II Environmental Site Assessments..... 9
3.1.2. Historical Use Information on Adjoining Properties..... 10
3.2. PHYSICAL SETTING..... 10
3.3. STANDARD ENVIRONMENTAL RECORD SOURCES..... 11
3.3.1. SUBJECT PROPERTY DATABASE SEARCH..... 11
3.3.2. SITE VICINITY DATABASE SEARCH..... 11
3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES..... 12
3.4.1. Additional Subject Property Record Sources..... 13
3.4.2. Additional Site Vicinity Record Sources..... 13
3.5. PROVIDED SUBJECT PROPERTY RECORDS..... 13
3.6. VOLATILE ORGANIC COMPOUND VAPOR ENCROACHMENT..... 13
4.0. SITE RECONNAISSANCE..... 13
4.1. METHODOLOGY AND LIMITING CONDITIONS..... 14
4.2. GENERAL SITE SETTING..... 14
4.3. EXTERIOR AND INTERIOR OBSERVATIONS..... 14

TABLE OF CONTENTS

SECTION **PAGE**

5.0. MATERIAL STORAGE..... 15
6.0. INTERVIEWS..... 15
7.0. BUSINESS ENVIRONMENTAL RISKS - NON-ASTM SERVICES..... 15
7.1. MOLD..... 15
7.2. ASBESTOS CONTAINING BUILDING MATERIALS..... 16
7.3. LEAD-BASED PAINT..... 16
7.4. RADON..... 16
7.5. WETLANDS..... 16
7.6. REGULATORY COMPLIANCE..... 17
8.0. EVALUATION..... 17
8.1. DATA GAPS AND LIMITATIONS..... 17
8.2. FINDINGS..... 17
8.2.1. Business Environmental Risk..... 17
8.2.2. De Minimis Conditions..... 17
8.2.3. Historical Recognized Environmental Conditions..... 18
8.2.4. Controlled Recognized Environmental Conditions..... 18
8.2.5. Recognized Environmental Conditions..... 18
9.0. CONCLUSIONS AND OPINION..... 18
10.0. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS..... 18
11.0. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS..... 18
12.0. REFERENCES..... 19

Figures

Figure 1 - Location Map
Figure 2 - Site Plan

Appendices

Appendix A - Photographs of the Subject Property
Appendix B - Historical Documents
Appendix C - Regulatory Records Documentation (with EDR Database Searches)
Appendix D - Interview Documentation
Appendix E - Miscellaneous Documents
Appendix F - Qualifications of the Environmental Professionals

EXECUTIVE SUMMARY

AdvancedGeo, Inc. (AGI) conducted this Phase I Environmental Site Assessment of the property identified as Contra Costa County Assessor Parcel Numbers (APNs) 121-090-011-2 and 121-090-016-1, Mitchell Canyon Road, Clayton, Contra Costa County, California (subject property or property) in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries 'AAI' (40 CFR Part 312).

PROPERTY USE

The subject property is located on the west side of Mitchell Canyon Road, in a residential area of Clayton, California. The subject property is comprised of two parcels (APN 121-090-011-2 and 121-090-016-1) totaling 8.65 acres. The property consists of vacant, undeveloped land that is covered by overgrown weeds and trees. The northwest section of the property contains a wood tool shed and a water well.

Based on a review of historical documents, the subject property has been undeveloped and utilized agriculturally since at least the 1939. By the early 1980s, the land was no longer used agriculturally and has been vacant and undeveloped through the present.

FINDINGS

Based on the standards set by ASTM Standard Practice E1527-13, a recognized environmental condition (REC) is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions. Conditions that are considered Business Environmental Risk include the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The following findings are differentiated below as Business Environmental Risks and *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs.

BUSINESS ENVIRONMENTAL RISKS

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property.

DE MINIMIS CONDITIONS

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property, except

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION

This assessment has revealed no evidence of HRECs in connection with the subject property, except

CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITION

This assessment has revealed no evidence of CRECs in connection with the subject property, except

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of RECs in connection with the subject property, except

CONCLUSIONS AND OPINION

AGI, Inc. has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at Mitchell Canyon Road, Clayton, California. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGI did not identify any REC's on the subject property during the course of the Phase I. AGI has no recommendations for additional investigations at the subject property at this time.

1.0. INTRODUCTION

AdvancedGeo, Inc. (AGI) has been retained by DeNova Homes to perform a Phase I Environmental Site Assessment (Phase I) of the property identified as Contra Costa County Assessor Parcels Numbers (APNs) 121-090-011-2 and 121-090-016-1, Mitchell Canyon Road , Clayton , Contra Costa County, California (hereafter referred to as subject property or property). The Phase I was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for 'All Appropriate Inquiries (AAI)' (40 CFR Part 312). The Phase I is designed to provide the Client (user) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

1.1. PURPOSE

The purpose of the Phase I is to identify and assess environmental characteristics of the subject property that could lead to liability in the event of ownership, that could have a potential impact on property value or that could impact the present or future use of the subject property.

The purpose of ASTM Standard Practice E1527-13 and USEPA AAI is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B). An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice (based on ASTM Practice E1527-13).

The goal of ASTM Standard Practice E1527-13 is to identify recognized environmental conditions (RECs) in connection with the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be de minimis, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

1.2. SITE DESCRIPTION

The subject property is located on the west side of Mitchell Canyon Road, in a residential area of Clayton, California. The subject property is comprised of two parcels (APN 121-090-011-2 and 121-090-016-1) totaling 8.65 acres. The property consists of vacant, undeveloped land that is covered by overgrown weeds and trees. The northwest section of the property contains a wood tool shed and a water well. Further property location descriptions, characteristics, improvements, and site vicinity characteristics are discussed below.

1.2.1. Location and Legal Description

The subject property location can be identified as the following:

Site Address(es)	None
Assessor's Parcel Number(s) (APN)	1) 121-090-011-2 2) 121-090-016-1
Property Owner	CLAYTON FRED B TRE ISOBE KAREN E
Land Use Type	1) MISCELLANEOUS 2) VACANT
Zoning	Not provided
Legal Description	1) POR NW QR SEC 14 T1N R1W 4.51 AC 2) POR NW QR SEC 14 T1N R1W 4.14 AC
Size of Property	1) 4.510-acres 2) 4.140-acres TOTAL 8.65-acres

The parcel map and owner information were provided by ParcelQuest/CD Data as a representation of current data downloaded monthly from the County Assessor's Office. Copies of the parcel map and the owner information are provided in Appendix B.

1.2.2. Site and Vicinity General Characteristics

The subject property is located within a residential area of the City of Clayton, Contra Costa County, California. Figure 1 shows the setting of the subject property (7.5 Minute United States Geological Survey [USGS] Topographic Series, Clayton, California). Photographs of the subject property are provided in Appendix A.

1.2.3. Current Use of Property

The property is currently undeveloped, vacant land.

1.2.4. Proposed Use of Property

It is AGI's understanding that the proposed future property use is residential.

1.2.5. Property Utilities

There are no current or historical utilities serving the subject property.

1.3. DETAILED SCOPE-OF-SERVICES

Except where identified in Section 8.1., the scope of work for this Phase I conforms to ASTM Standard Practice E1527-13 and the USEPA AAI (40 CFR Part 312). Any additional User requested scope of services are discussed in Section 7.0.

1.4. SIGNIFICANT ASSUMPTIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. Findings were based mainly upon examination of historical records, maps, aerial photographs and government agency lists, on a site reconnaissance visit, and on information obtained during personal interviews with persons of long term familiarity with the subject property as specified in ASTM E1527-13 and the USEPA AAI. Hazardous waste site lists presented in this report represents only a search of specific government records as listed below. AGI is aware additional government records may exist. It should be noted that government agencies often do not list all sites with environmental contamination or that the list could be inaccurate and/or incomplete.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites, are assumed based on geologic interpretations from available sources. AGI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.5. LIMITATIONS AND EXCEPTIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AGI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified as beyond the scope of an ASTM Phase I that may affect business environmental risks at a property include the following: asbestos-containing materials (ACMs); biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint (LBP); lead in drinking water; mold; radon; regulatory compliance; and wetlands. These environmental issues may warrant assessment based on the type of property or transaction, however, they are considered non-scope issues under ASTM Practice E1527-13. Any addition of non-scope items must be agreed upon between the user and AGI prior to initiation of the Phase I.

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and

information provided, and observations and conditions that existed on the date and time of the property visit.

1.6. SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions, agreed upon by the environmental professional, beyond the initial agreed upon scope of work, used in preparation of this report.

1.7. USER RELIANCE

Conclusions and recommendations in this report are based on findings regarding historical use of the site, and on features noted during the site reconnaissance. The absence of any potential gross contamination sources, historic or present, does not necessarily imply that the site is free of any contamination. This report only represents a 'due diligence' effort as to the current environmental status of the site. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

2.0. USER PROVIDED INFORMATION

According to the ASTM Standard E1527-13 and the USEPA AAI, in order to qualify for one of the Landowner Liability Protections (LLPs) to CERCLA liability offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the client (user) must provide to the environmental professional the following information (if available) in relation to the subject property:

Title Records	A review of Title Records was not requested by the user.
Environmental Liens or Activity and Use Limitations	An environmental lien or AUL's (activity and usage limitations) search was not requested by the user.
Specialized Knowledge	AGE was not provided any specialized knowledge by the user and does have not any specialized knowledge of this property outside of what is contained in this report. The property ownership and tenants as well as all individuals who were interviewed as part of this investigation, have not reported any specialized knowledge of this property outside of what is contained in this report.
Commonly Known or Reasonably Ascertainable Information	The user provided no commonly known or reasonably ascertainable information available within the local community about the subject property that is material to recognized environmental conditions in connection with the property.
Valuation Reduction for Environmental Issues	No property valuation reduction related to environmental issues or concerns was reported by the user.
Owner, Property Manager, and Occupant Information	No written or verbal communication with the property owner, manager and/or occupant revealed any information which suggested that there are currently or historically any recognized environmental conditions associated with the subject property not noted in this assessment.
Reason for Performing Phase I	Potential property transaction
Other	No modifications to the ASTM E1527-13 standard scope-of-services were requested by the user for special circumstances that might be encountered at the subject property. Any additional user requested scope of services are discussed in Section 7.0.

Failure to provide the above information could result in a determination that 'all appropriate inquiries' are not complete. Additional items should be collected, if available, and provided to AGI.

3.0. RECORDS REVIEW

The purpose of obtaining and reviewing subject property and site vicinity historical, physical setting, and regulatory records is to help identify *recognized environmental conditions* in connection with the subject property.

3.1. HISTORICAL USE INFORMATION

The objective of consulting historical sources for a Phase I is to develop a history of previous uses of the property and surrounding area to help identify the likelihood of past uses having led to recognized environmental conditions with respect to the property. All obvious uses shall be identified from the present to the property's first obvious developed use, or back to 1940, whichever is earlier. Review of standard sources at less than five year intervals is not required.

3.1.1. Historical Use Information on Subject Property

Subject property history was researched by reviewing historical Sanborn Fire Insurance Maps (no coverage), aerial photographs, topographic maps, telephone directory information, the Building Dept name records, and the Contra Costa County Assessor's Office records.

Based on a review of historical documents, the subject property has been undeveloped and utilized agriculturally since at least the 1939. By the early 1980s, the land was no longer used agriculturally and has been vacant and undeveloped through the present.

In summary, review of the historical documents revealed no features on the subject property of environmental concern. Representative historical records are provided within Appendix B.

3.1.1.1. Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas but are now utilized as a valuable source of historical and environmental risk information. EDR owns the largest collection of Sanborn Fire Insurance Maps. AGI requested EDR to provide any Sanborn Fire Insurance Maps that might cover the subject property. Sanborn map coverage was not available for the subject property.

A review of historical Sanborn Fire Insurance Maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.2. Aerial Photographs

AGI reviewed aerial photographs of the subject property and surrounding area that were provided by EDR as well reviewed online (Google Earth) for the years 1939, 1946, 1949, 1950, 1958, 1963, 1966, 1979, 1982, 1993, 1998, 2006, 2009, 2012 and 2016. The following is a summary of our review of the aerial photographs:

Year(s)	Subject Property	Surrounding Area
1938	Northeast area of property appears to be developed agriculturally with an orchard.	Mitchell Canyon Road is visible adjacent to the east of the northeast area of the property. orchards are visible to the north and south of the eastern portion of the

Year(s)	Subject Property	Surrounding Area
		property. Adjacent properties to the west and south are undeveloped. .
1946, 1949, 1950, 1958	The majority of the property is developed with an orchard.	Similar to previous photograph with some additional agricultural development visible in the surrounding area.
1963	Much of the orchard previously visible is no longer present. Only remnants of the orchard are visible.	Residential development is visible beyond Mitchell Canyon Road to the east. The remaining adjacent properties appear similar to the previous photograph.
1966	Similar to previous photograph. No significant changes are apparent.	Residential development is visible adjacent to the south, southeast and to the east beyond Mitchell Canyon Road. Areas to the west, north and southwest appear similar to the previous photograph.
1979, 1982	Similar to previous photograph.	Similar to previous photograph with residential development now visible to the west and north.
1993, 1998	Similar to previous photograph except a very small shed is visible in the central area of the property. with the orchard remnants becoming less visible.	An increase in residential development is now visible to the west and north. The remaining adjacent properties appear similar to the previous photograph. A significant increase in residential development is visible in the surrounding area. The surrounding area
2006, 2009, 2012, 2016	Similar to previous photographs. No significant changes are visible.	Similar to previous photographs. No significant changes are visible.

A review of historical aerial photographs did not reveal any items of environmental concern in connection with the subject property.

3.1.1.3. Historical Topographic Maps

AGI reviewed historical topographic maps of the subject property and surrounding area that were supplied by EDR for the years 1896, 1898, 1912, 1943, 1953, 1968, 1973, 1980, 1994 and 2012. The following is a summary of our review of the topographic maps:

Year(s)	Subject Property	Surrounding Area
1896, 1898	Mapped in an undeveloped area southwest of the city of Clayton. No roads or property use features are mapped on the property.	Undeveloped land. No property use features are mapped.
1912, 1943	Undeveloped land. No property use features are mapped.	A road in the location of current day Mitchell Canyon Road is mapped adjacent to the east and beyond agricultural use is mapped. No property use features are mapped to the north, south and west.
1953	The northeastern portion of the property is mapped as agricultural use with the remainder of the property undeveloped.	Agricultural use is mapped adjacent to the north and southeast and beyond Mitchell Canyon Road to the east. .
1968	Undeveloped land. No property use features are mapped.	Adjacent properties to the east beyond Mitchell Canyon Road and to the southeast are mapped with urban tint and residential development. The adjacent property to the north is mapped with small small building footprint and the adjacent property to the west is undeveloped.

Year(s)	Subject Property	Surrounding Area
1973	The northeastern portion of the property is mapped as agricultural, the remainder of the property is not mapped with any property use features.	Similar to previous map. No significant changes re mapped.
1980, 1994	Undeveloped land. No property use features are mapped.	Similar to previous map except residential development is now mapped adjacent to the northeaster and west
2012	No property use features are mapped.	No property use features are mapped. except additional small roads indicative of residential development..

A review of historical topographic maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.4. Street Directories

AGI requested that EDR provide a review of city and street directories to determine the occupancy history of the property. However, no address is associated with the property.

3.1.1.5. Building Department Records

Since no address is associated with the property, the Clayton Building Department was unable to provide any building permit records.

3.1.1.6. Assessor's Records

A review of Contra Costa County Assessor's records was not conducted since the property owners permission could not be obtained to review records.

3.1.1.7. Previous Phase I and II Environmental Site Assessments

Previous Phase I and II Environmental Site Assessments were provided to AGI by the user and/or property owner during the course of this Phase I and included the following:

Phase I Environmental Site Assessment, AEI, August 2019

At the time of the Phase I report, the property was undeveloped land except for a small shed located in the northwestern area of the site. AEI identified Other Environmental Conditions (OECs) were identified at the property including a potential that agricultural chemicals such as pesticides, herbicides and fertilizers were used on site, based on the past agricultural use. AEI also indicated that the City of Clayton Planning Department does not have explicit soil sampling requirements for residential development. Therefore, AEI recommended soil sampling be conducted to determine if the property had been significantly impacted by the past agricultural use.

Limited Soil Sample Investigation, September 2019

Based on the finding of the Phase I report completed in August 2019, to screen for the presence of agricultural chemicals that may be present due to the past agricultural sue of the property. Several soil samples were collected across the property and analyzed for organochlorine pesticides (OCPs), metals and petroleum hydrocarbons. Findings from the investigation indicated arsenic was detected in five of the soil samples at

concentrations above the residential Environmental Screening Level but are below the typical background concentrations. Lead was detected five of the soil samples at background concentrations. The soil sample analyzed for metal contained various metals well below at background concentrations. TPH as gasoline, diesel, and oil were detected in the same sample at very low concentrations (below their respective Environmental Screening Levels (ESLs). OCPs were not detected above the laboratory reporting limits in any of the soil samples collected. AEI indicated no further investigation was warranted relative to OCPs, metals, or TPH in shallow soils at the site.

3.1.2. Historical Use Information on Adjoining Properties

Historical use of immediately adjoining properties was undeveloped or agricultural until the mid 1960s when residential development began to the southeast. By the 1970s, increased residential development occurred to the west. By the early 1990s, residential development had occurred to the north. The area to the south fo the western portion of the property has remained undeveloped.

Historical uses of adjoining properties do not appear to be of environmental concern to the subject property.

3.2. PHYSICAL SETTING

Geology	The subject property is situated within the Coast Ranges Geomorphic Province of California, which is characterized by nearly parallel northwest-trending ridges interspersed with alluvium-filled valleys. Terraces and alluvial fans border the ridges of the Coast Ranges before they hit the San Francisco, San Pablo, and Suisun Bays and merge into tidal flats along the bay margins. The Coast Ranges were structurally formed by faulting and folding of the Farallon and North American plates, recorded by rocks of the Franciscan Complex of Cretaceous and Jurassic age (100 to 65 million years old). This geomorphic province contains coastal foothills and mountains and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. Western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.
Hydrology	The subject property lies within the Clayton Valley Subbasin (2-005). The Clayton Valley Groundwater Basin is located in northern Contra Costa County along the south shore of Suisun Bay. The basin is about 40 miles northeast of San Francisco. It is bounded by Suisun Bay on the north, Mt Diablo Creek on the east, the Concord Fault on the west, which divides this separates this basin from the Ygnacio Valley groundwater basin, and the foothills of Mount Diablo on the south. The cities of Concord and Clayton overlie the Clayton Valley Basin. Clayton Valley is underlain by thick alluvial deposits which cover a faulted and folded complex of consolidated Cretaceous and Tertairy rocks. The water bearing units in the basin can be found in the Recent alluvium and the older alluvium valley fill deposits. The combined thickness of these deposits exceeds 700 feet. Aquifers in the basin area are hydrologically connected to Suisun Bay (DWR 1975). Depth to groundwater in the vicinity of the site is greater than 50 feet below surface grade (bsg) based on data from a nearby site at 2484 Pine Hollow Road, obtained from the State of California's Geotracker database.
Topography	The property is located at an elevation of approximately 493 feet above mean sea level (MSL), in an area of moderate topographic relief. Regional slope of the area is toward the general east-northeast.
Surface Soils	EDR provides a report listing dominant soil composition in the general area of the subject property based on information from the United States Department of Agriculture's Soil Conservation Service STATSGO (State Soil Geographic Database) soil maps. Soil surface texture at the subject property consists of soil identified as PERKINS, a gravelly loam and GILROY a clay loam, both in the Class C

Surface Soils	Hydrogeologic Group which includes slow infiltration rates. Corrosion potential of this soil for uncoated steel is moderate.
Surface Water Features	There are no surface water features on the subject property. The nearest surface water feature in the vicinity of the subject property is Mitchell Creek, located approximately 450 feet to the east.
Flood Zone	The EDR database report shows that the subject property is not located within either a Special Flood Zone Hazard Area (1%) or a 0.2% Annual Chance Flood Zone. This data, available in select counties across the country, was obtained by EDR from the Federal Emergency Management Agency (FEMA) which has maps depicting FEMA-defined 100-year and 500-year flood zones.
Wetlands	The EDR database report shows that the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

3.3. STANDARD ENVIRONMENTAL RECORD SOURCES

A computer search of federal, state and regional regulatory agency databases was performed by Environmental Data Resources Inc. (EDR), a data retrieval company, to identify and locate properties in areas of concern that have been reported as sites known or suspected to contain underground storage tanks, or to have been the scene of hazardous materials spills. Additionally, sites permitted to manufacture, utilize, generate, store, treat or dispose of hazardous materials and/or hazardous wastes are identified and located. A list and description of databases investigated, in compliance with ASTM E1527-13 and USEPA AAI, is included in EDR Report provided in Appendix C.

3.3.1. SUBJECT PROPERTY DATABASE SEARCH

The property location on Mitchell Canyon Road, Clayton, California, was not identified on any governmental databases within the EDR Report.

3.3.2. SITE VICINITY DATABASE SEARCH

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

AGI retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix C. The following information was obtained:

AGI's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, AGI considered the following:

- The type of database on which the site is identified;
- The topographic position of the identified site relative to the subject property;
- The direction and distance of the identified site from the subject property;
- Local soil conditions in the subject property area;

- The known or inferred groundwater flow direction in the subject property area;
- The status of the respective regulatory agency-required investigation(s) of the identified site (if any); and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches located between the identified site and the subject property.

No sites were identified on the EDR database report listed on the regulatory database report that were judged to present a potential environmental risk to the subject property.

3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES

In addition to the EDR computer search of federal, state and regional regulatory agency databases, AGI contacted appropriate regulatory agencies to review records regarding the property and surrounding sites identified as having recognized environmental conditions that have the potential to impact the subject property based on ground water flow direction, distance from the subject property and nature of the releases causing the environmental condition.

Additional agency searches include the following:

- Contra Costa County Environmental Health Department (CCCEHD) and the San Francisco Bay Regional Water Quality Control Board [Example: Central Valley Regional Water Quality Control Board] (Regional Board) maintain records of industrial violations for this area and are the lead agencies for the enforcement of the State Underground Storage Tank and Hazardous Waste Laws for Contra Costa County. AGI requested to review any files that were available.
- The Regional Board also maintains and online computer database, GeoTracker, that provides listings of closed and active sites related to unauthorized releases of hydrocarbons as well as solvents, metals, and other materials. For listed sites, online reports are commonly available. AGI reviewed the GeoTracker database for information that may be available for the subject property or surrounding sites.
- The California Department of Toxic Substances Control (DTSC) is the State of California agency responsible for oversight of hazardous waste regulations, cleanup of existing contamination, pollution prevention and reduction in hazardous waste and toxic materials and identification of potential new pollutants. The DTSC maintains the EnviroStor Data Management System (ENVIROSTOR) which allows for the search for information on investigation, cleanup, permitting and/or corrective actions that are planned, being conducted or have been completed under DTSC oversight. AGI reviewed the ENVIROSTOR database for any information that may be available.
- The United States Environmental Protection Agency (USEPA) provides an online computer database, ENVIROFACTS, providing lists of sites listed on multiple USEPA databases. AGI reviewed the ENVIROFACTS database for any information that may be available.
- The Geologic Energy Management Division's (CalGEM) online mapping application presents California’s oil and gas industry information from the geographic perspective. AGI reviewed the CalGEM well database for information that may be available for the subject property or surrounding sites.

3.4.1. Additional Subject Property Record Sources

The subject property address was searched on the following record sources:

SOURCE	SUMMARY
Regional Board & GeoTracker database	Property location was not identified on the GeoTracker database and did not have any records on-file with the Regional Board.
DTSC & ENVIROSTOR database	Property location was not identified on the ENVIROSTOR database and did not have any records on-file with the DTSC.
USEPA ENVIROFACTS	Property location was not identified on the ENVIROFACTs database.
CCCEHD	Property location was not identified as having records on-file with the CCCEHD.
CalGEM Well Finder	According to the CalGEM Well Finder, no oil and/or gas wells are located in the vicinity of the subject property.

3.4.2. Additional Site Vicinity Record Sources

The CCCEHD and Regional Board maintain records for, and are responsible for, enforcement of state UST and hazardous waste laws. AGI commonly reviews files for up-gradient sites under active environmental regulation to ascertain the current site status and its potential to impact the subject property. No sites, under active or past environmental regulation, were identified by the database search within the required search radius of potential concern to the property.

3.5. PROVIDED SUBJECT PROPERTY RECORDS

No records were provided to AGI by the user and/or property owner during the course of this Phase I with the exception of the Phase I and Limited Soil Sampling investigations discussed above is Section 3.11.7.

3.6. VOLATILE ORGANIC COMPOUND VAPOR ENCROACHMENT

The encroachment of hydrocarbon and volatile organic compound (VOC) vapors into soil pore space occurs when organic chemicals migrate from contaminated groundwater or soil into the airspace between soil particles. Some typical organics involved are petroleum based or chlorinated solvents (e.g, BTEX and dry cleaning chemicals). They may have leaked into the groundwater and/or soil from underground storage tanks, or buried waste, or from disposal in septic systems.

In compliance with ASTM Standard E2600-15 (Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions), AGI evaluated the potential for a Vapor Encroachment Condition (VEC) at the subject property. Based on a VEC screening, it was determined that ‘a VEC does not exist’ at the property. A copy of the AGI-generated Tier 1 VEC screening form is provided within Appendix E.

4.0. SITE RECONNAISSANCE

A subject property site reconnaissance was conducted by an AGI representative on 20 February 2020. At the time of the site visit the weather was clear and warm. Primary features of the property are shown in a site plan provided in Figure 2. Photographs of selected features of the subject site are included in Appendix A.

4.1. METHODOLOGY AND LIMITING CONDITIONS

The property was fully accessible during the site reconnaissance. No limiting conditions were noted except for the tool shed (northern parcel) being locked.

4.2. GENERAL SITE SETTING

The following is a description of the subject property:

- The subject property is located on the west side of Mitchell Canyon Road, in a residential area of Clayton, California. The subject property is comprised of two parcels (APN 121-090-011-2 and 121-090-016-1) totaling 8.65 acres.
- The majority of the subject property consists of vacant, undeveloped land that is covered by overgrown weeds and trees. The northwest section of the property contains a wood tool shed and a water well.

The following is a description of the property improvements:

Structures	An approximate 10 foot by 20 foot wood shed was observed in the northern parcel. No other structure were observed at the subject property.
Adjoining / Access / Egress Roads	Access to the subject property is through drive-way gate on Mitchell Canyon Road.
Surface Types	Undeveloped land with vegetation and trees.
Additional Features	A water well was observed in the northern parcel near the tool shed.
Surface Water	No surface water features observed at the subject property.

At the time of the site reconnaissance, current uses of adjacent properties included the following:

North	Residential
South	Undeveloped
East	Residential
West	Residential

Current uses of the adjoining properties do not appear to be of potential environmental concern to the subject property.

4.3. EXTERIOR AND INTERIOR OBSERVATIONS

The following was observed at the time of the property reconnaissance:

OBSERVED	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
No	Pits, ponds or lagoons with respect to waste treatment or disposal
No	Stained soil or pavement, patched pavement
No	Stressed vegetation (from causes other than insufficient water)
No	Fill dirt from unknown source, or contaminated source
No	Solid waste (mounds or depressions suggesting waste disposal)
No	Waste water / storm water discharged into a drain, ditch or stream
Yes	Wells (abandoned, irrigation, domestic, monitoring or oil and gas) - One water well was observed in the northern parcel.
No	Dry wells
No	Septic systems or cesspools
No	Movement of hazardous materials to adjacent properties
No	Hazardous substances and/or petroleum products
No	Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances

OBSERVED	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
No	Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances
No	Strong, pungent or noxious odors
No	Pools of liquid (other than water)
No	55-gallon drum or large sack storage
No	Unidentified substance containers
No	Stains and/or corrosion on floors, walls or ceiling (except water)
No	Drains and sumps
No	Oil-water separator/clarifier
No	Electrical or hydraulic equipment known to contain PCBs
No	Obvious signs of possible ACMs
No	Obvious signs of mold
No	Other areas of environmental concern

5.0. MATERIAL STORAGE

No current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, tanks, drums, storage lockers, silos) of 55 gallons or more for individual containers, or 100 gallons in aggregate for smaller containers, were observed on the subject property or have been historically utilized on the property.

6.0. INTERVIEWS

AGE forwarded an ASTM -compliant questionnaire to the property owner for completion, however the completed questionnaire has not been received as of the publication date of this Phase I report.

7.0. BUSINESS ENVIRONMENTAL RISKS - NON-ASTM SERVICES

Additional environmental considerations beyond the scope of the standard ASTM practice that have the potential to pose business environmental risks are discussed below.

7.1. MOLD

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air. Mold may begin growing indoors when mold spores land on surfaces that are wet. There are many types of mold, and none of them will grow without water or moisture.

Molds are usually not a problem indoors, unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins).

At the time of the property reconnaissance, no obvious signs of mold/microbiological growth, were observed.

7.2. ASBESTOS CONTAINING BUILDING MATERIALS

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials (roofing shingles, ceiling and floor tiles, paper products, and asbestos cement products), friction products (automobile clutch, brake, and transmission parts), heat-resistant fabrics, packaging, gaskets, and coatings.

Prior to the late 1970s, building products and insulation materials commonly contained asbestos. In 1989, the USEPA banned all new uses of asbestos; however, uses developed before 1989 are still allowed. When asbestos-containing materials are damaged or disturbed by repair, remodeling or demolition activities, microscopic fibers become airborne and can be inhaled into the lungs, where they can cause significant health problems.

No structures are located on the property except for a small shed. No evidence of ACM was observed in the shed.

7.3. LEAD-BASED PAINT

Lead is a toxic metal that was used for many years in products found in and around our homes. Lead-based paint (LBP) was used extensively in buildings constructed before 1950. In 1978, LBP was banned by the federal government. Lead may cause a range of health defects, from behavioral problems and learning disabilities, to seizures and death.

No structures are located on the property except for a small shed. No evidence of LBP was observed in the shed.

7.4. RADON

Radon is a naturally occurring, colorless, odorless gas that is soluble in water. It is produced through the radioactive decay of uranium and radium, which is naturally present in soil and in minerals in bedrock. Radon is radioactive, which means that it breaks down or decays to form other elements. Radon concentrations generally differ among different rock types and can vary considerably within the same geologic formation. Radon moves from its source in rocks and soils through voids and fractures. It can enter buildings as a gas through foundation cracks or it can dissolve in ground water and be carried to buildings through the use of water-supply wells. Buildings with basements and concrete slab foundations are more susceptible to elevated levels of indoor radon gas. The inhalation of radon gas can cause damage to lung tissue.

A common unit of radioactivity measurement is picocuries per liter (pCi/L). The USEPA established the recommended safe radon level at 4 pCi/L. According to the USEPA, the subject property county, Contra Costa, is located in a moderate radon potential area (Zone 2), defined as having a ‘predicted average indoor radon screening level between 2 and 4 pCi/L.’

7.5. WETLANDS

As reported in Section 3.2., according to the EDR Report (Appendix C) the subject property is not located within a National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

7.6. REGULATORY COMPLIANCE

AGI searched the subject property address, Mitchell Canyon Road, Clayton, California, on local, state and federal databases. No records were found regarding any outstanding regulatory permitting or requirements/directives in connection with the property.

8.0. EVALUATION

Any deviations from the ASTM Standard Practice 1527E-13 and USEPA AAI are presented below, along with the findings, conclusions, and opinions identified during the course of this Phase I.

8.1. DATA GAPS AND LIMITATIONS

A data gap occurs when a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, and interviews. The following data gaps and/or limitations were identified during the course of this Phase I, which may deviate from the ASTM standard practice:

- The largest data gap in research was 27 years, between 1912 and 1939, with the earliest researched information being a Topographic Map dated in 1912. Data gaps generally do not exceed five years between 1940 through the present.
- An ASTM-compliant interview was not completed during this Phase I.

The lack of this information represents a data gap. However, based on the other information obtained during the completion of this assessment, the lack of the Interview does not represent a significant data gap.

8.2. FINDINGS

Based on the standards set by ASTM Practice E1527-13, the following findings are differentiated below as Business Environmental Risk (including the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials may constitute a Business Environmental Risk), de minimis conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs, as defined in Section 1.1. of this report.

8.2.1. Business Environmental Risk

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property.

8.2.2. De Minimis Conditions

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

8.2.3. Historical Recognized Environmental Conditions

This assessment has revealed no evidence of HRECs in connection with the subject property.

8.2.4. Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of CRECs in connection with the subject property.

8.2.5. Recognized Environmental Conditions

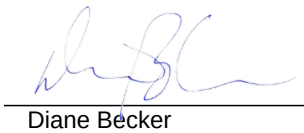
This assessment has revealed no evidence of RECs in connection with the subject property.

9.0. CONCLUSIONS AND OPINION

AGI has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at Mitchell Canyon Road, Clayton, California. Any exceptions to, or deletions from, this practice or scope of work are described in Section 8.1. of this report or presented as non-ASTM services in Section 7.0. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented.This assessment has revealed no evidence of RECs in connection with the property. AGI has no recommendations for additional environmental investigations of the subject property.

10.0. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Diane Becker
Senior Geologist

11.0. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the environmental professionals involved in the preparation of this Phase I are included in Appendix F.

12.0. REFERENCES

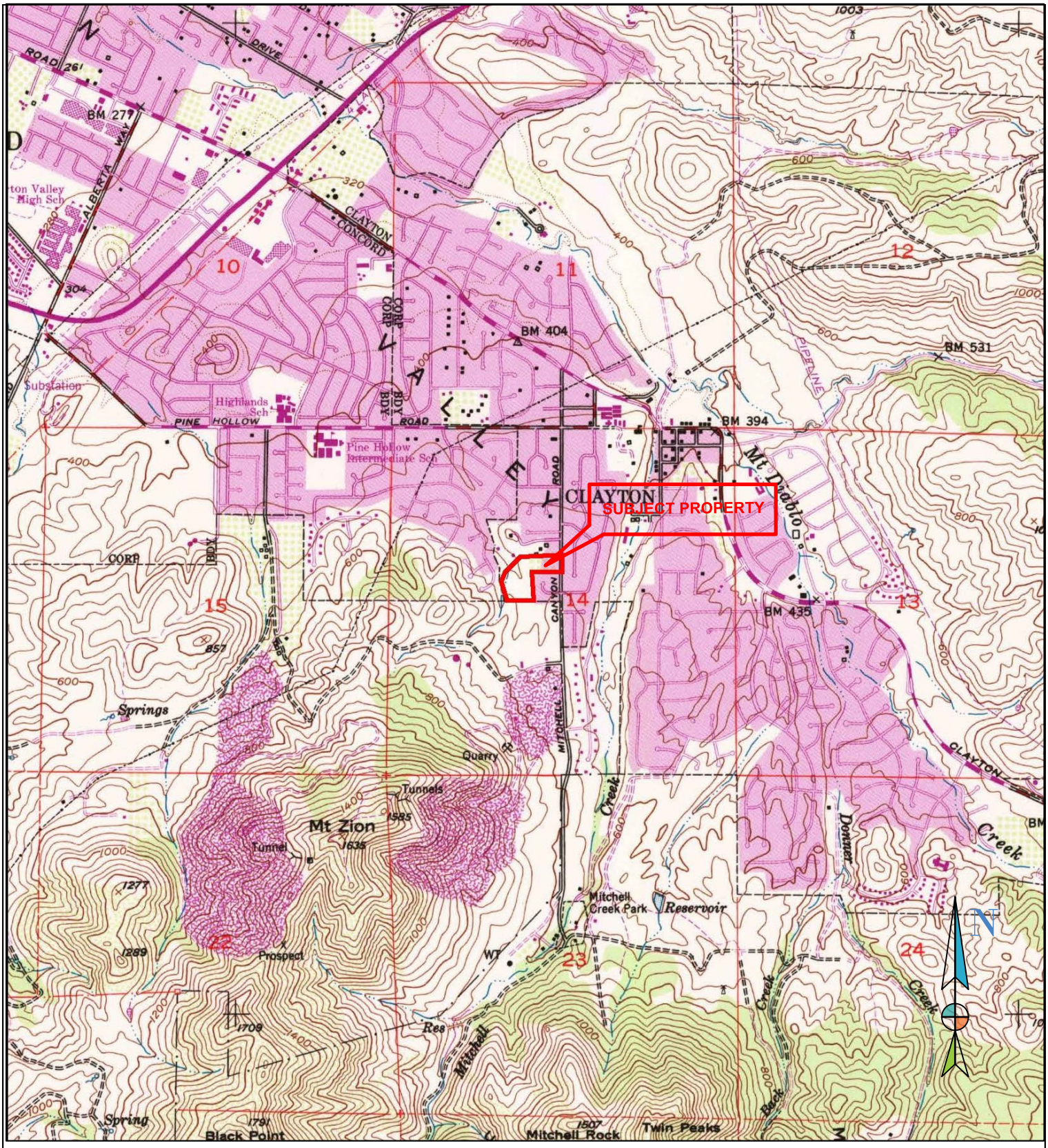
The following documents, maps or other publications may have been utilized during the preparation of this Phase I:

- AEI, *Phase I Environmental Assessment*, August 2019.
- ---------, Limited Soil Sampling, September 2019.
- ASTM, E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, 2013.
- California Department of Water Resources (DWR), Groundwater Basins in California, Version 3.0., 2003.
- Environmental Data Resources Inc. (EDR)-prepared: The EDR Radius Map, The EDR-City Directory Abstract, Certified Sanborn® Map Report, EDR Historical Topographic Map Report, EDR Historical Aerial Photograph Report.

The following websites may have been accessed to obtain information during the preparation of this Phase I:

- California State Water Resource Control Board's GeoTracker website: http://geotracker.swrcb.ca.gov/
- California Geological Survey — Note 36: California Geomorphic Provinces: http://www.conservation.ca.gov/cgs/information/publications/cgs_notes/note_36/Documents/note_36.pdf
- California Department of Water Resources website: http://www.cd.water.ca.gov/
- DTSC's ENVIROSTOR website: www.envirostor.dtsc.ca.gov/public
- DTSC's HWTS website: http://www.hwts.dtsc.ca.gov/
- FEMA's website: www.fema.gov/
- ParcelQuest by CD-DATA online download: www.parcelquest.com
- USEPA's Envirofacts website: www.epa.gov/enviro
- USEPA's radon information website: www.epa.gov/radon/zonemap.html#mapcolors
- USEPA's lead information website: www.epa.gov/lead/
- USEPA's asbestos information website: www.epa.gov/asbestos/
- USEPA's mold information website: www.epa.gov/mold/moldguide.html
- The Geologic Energy Management Division (CalGEM) Well Finder: https://www.conservation.ca.gov/calgem/Pages/Wellfinder.aspx

Figures



CLAYTON, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

0 2,000 4,000
APPROXIMATE SCALE IN FEET

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

LOCATION MAP

CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1
CLAYTON, CALIFORNIA

DATE:	FEBRUARY 2020
FILE:	LOCATION
DRAWN BY:	DMB
PROJECT NO.	20-4996
FIGURE:	1



LEGEND

Approximate Property Boundary

Approximate Water Well Location

N

*Base map from Google Earth

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

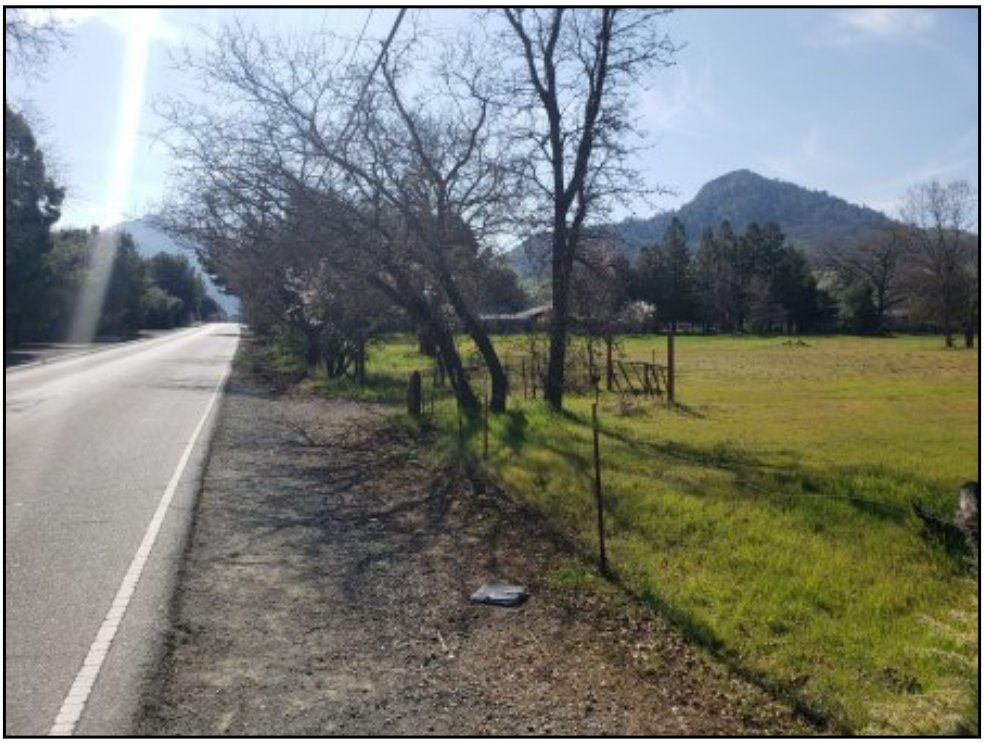
SITE PLAN

CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1
CLAYTON, CALIFORNIA

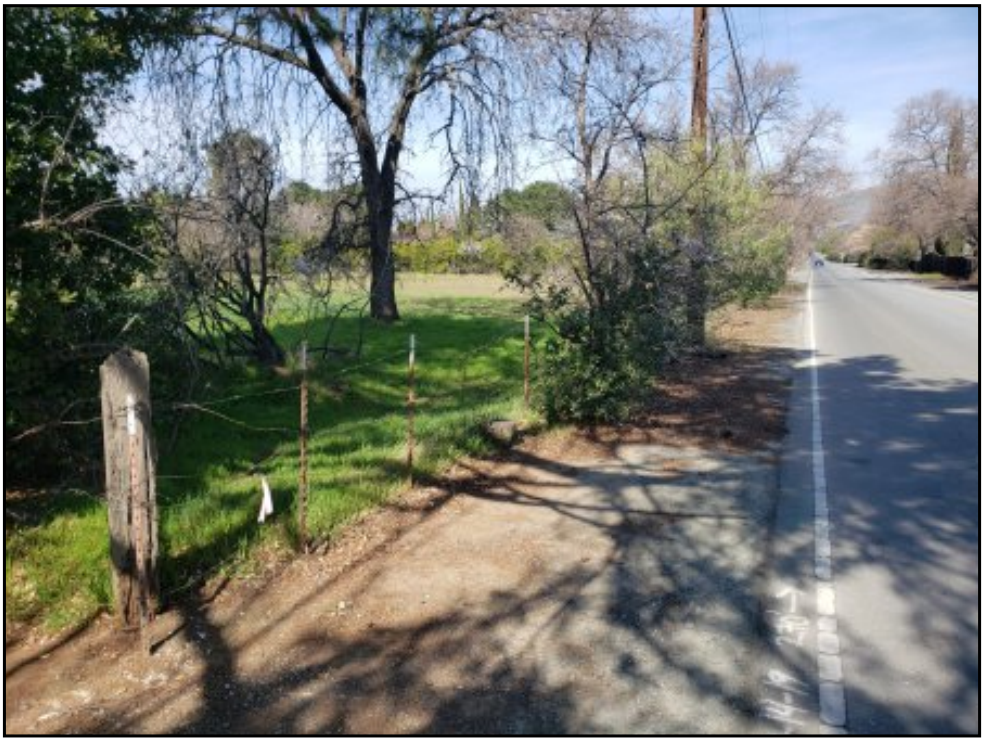
DATE:	FEBRUARY 2020
FILE:	SP
DRAWN BY:	DMB
PROJECT NO.	20-4996
FIGURE:	2

Appendix A -

Photographs of the Subject Property



1 : View of northeast corner of subject property along Mitchell Canyon Road. Photograph depicts eastern property boundary and right-of-way shoulder on west side of Mitchell Canyon Road.



2 : View of southeast corner of subject property along Mitchell Canyon Road. Photograph depicts eastern property boundary and right-of-way shoulder on west side of Mitchell Canyon Road.



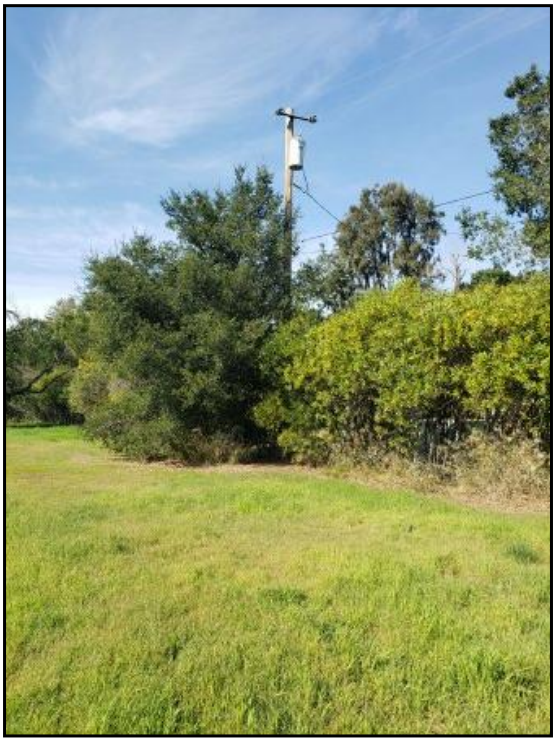
3 : View from southern parcel looking towards the northeast. Background depicts tool shed and residential development.



4 : View from northeast corner of north parcel looking towards the northeast. Background depicts north property fenceline.



5 : View from Canyon Mitchell Road looking towards the west. Background depicts driveway entrance gate at northern parcel.



6 : View from northern parcel looking towards the northwest. Background depicts electrical transformer along the northern property boundary.



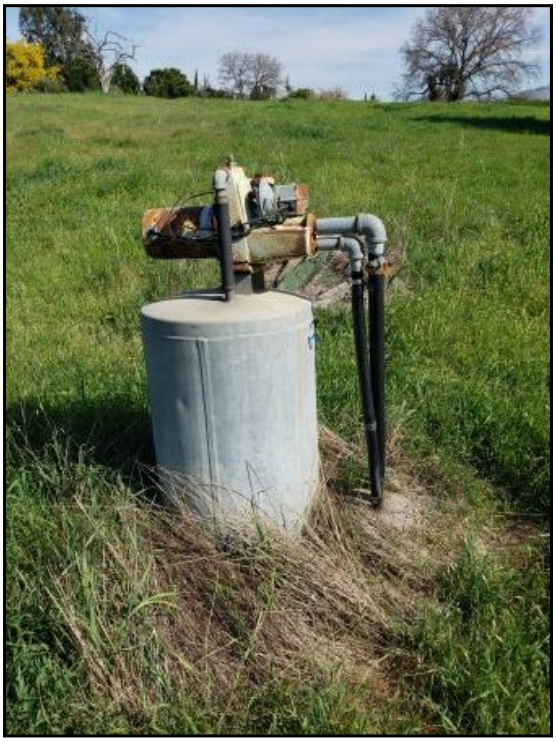
7 : View from northern parcel looking east towards Mitchell Canyon Road. Background depicts vegetation and undeveloped land.



8 : View from northern parcel looking towards the west. Background depicts northwest corner of subject property and a residential development furthter northwest.



9 : View from northern parcel looking towards the west. Background depicts tool & equipment shed.



10 : View from northern parcel. Photograph depicts water well. At least one faucet was located at the tool shed.



11 : View from southern parcel looking towards the south. Background undeveloped land with trees and vegetation.



12 : View from southern parcel looking towards the west. Background depicts undeveloped land follwed by a residential development.



13 : View from southern parcel looking towards the north. Background depicts undeveloped land followed by a residential development.



14 : View from southern parcel looking towards the southeast. Background depicts vegetation/trees and undeveloped land followed by residential development.



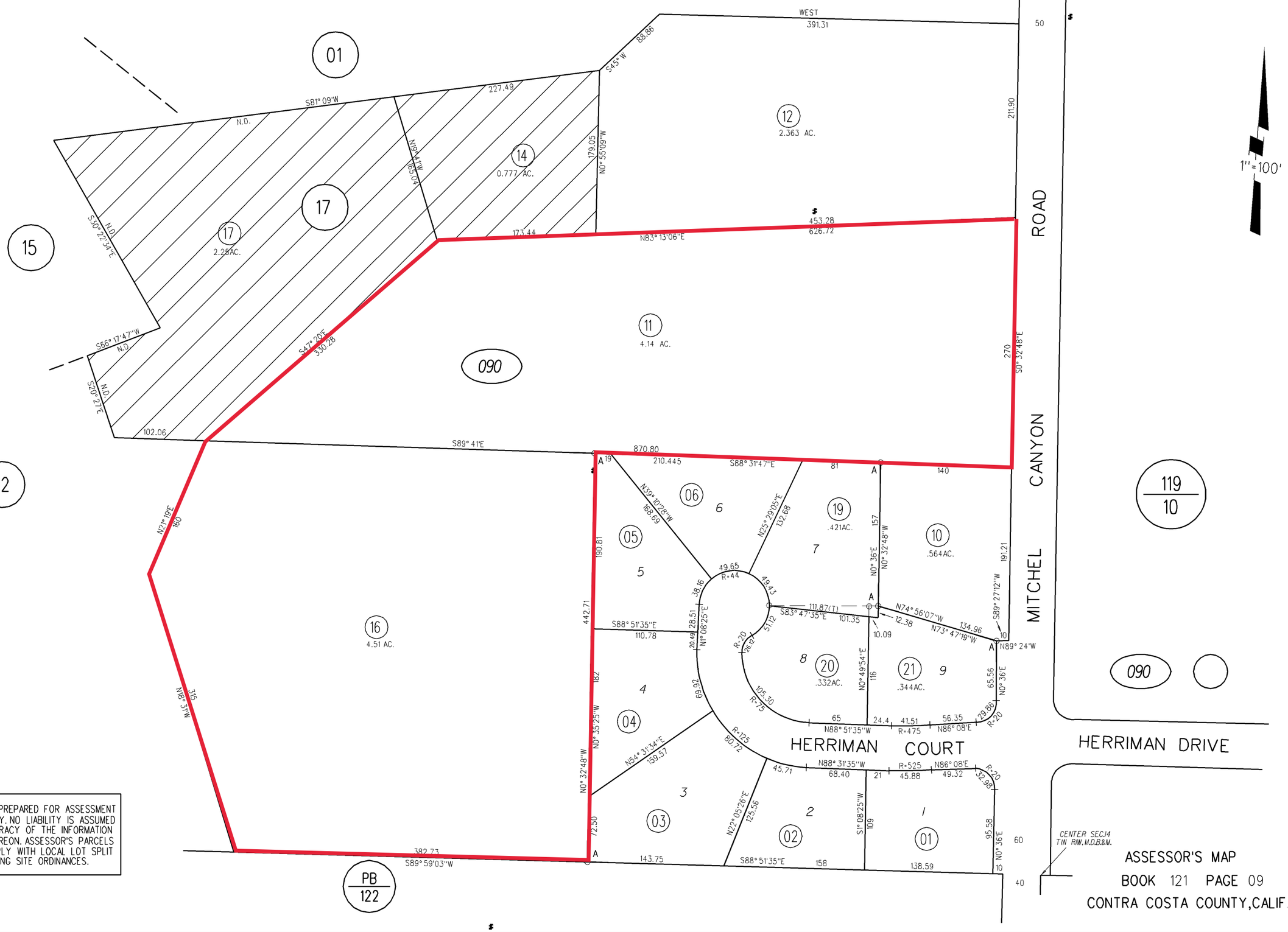
15 : View from southern parcel looking towards the northern parcel. Background depicts water well, followed by and residential development.

Appendix B -

Historical Documents

POR.NW1/4SEC.14, T1N R1W, M.D.B.&M.

A-1964 ROLL- TRACT 3237 M.B.97-17 (MITCHELL CANYON ESTATES NO.5)



NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION DELINEATED HEREON. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT SPLIT OR BUILDING SITE ORDINANCES.

ASSESSOR'S MAP
BOOK 121 PAGE 09
CONTRA COSTA COUNTY, CALIF.

DETAIL REPORT

Property Address: **MITCHELL CANYON RD CLAYTON CA 94517**

Ownership

Parcel# (APN):	**121-090-011-2**
Parcel Status:	
Owner Name:	**CLAYTON FRED B TRE ISOBE KAREN E**
Mailing Addr:	**825 ORANGE AVE SAN CARLOS CA 94070-3829**
Legal Description:	**POR NW QR SEC 14 T1N R1W 4.14 AC**

Assessment

Total Value:	**$91,579**	Use Code:	**62**	Use Type:	**MISCELLANEOUS**
Land Value:	**$90,960**	Tax Rate Area:	**013-006**	Zoning:	
Impr Value:	**$619**	Year Assd:	**2019**	Census Tract:	
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording date:	**09/05/2018**	**04/29/2017**	**07/07/2015**	**09/05/2018**
Recording Doc:	**141867**		**139567**	**141867**
Doc type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**4.140**	Spaces:		Site influence:	
Lot SqFt:	**180,338**	Garage SqFt:		Timber Preserve:	
Year Built:		Bsmt SqFt:	**N/A**	Ag Preserve:	
Effective Year:					

Call us 888-217-8999
Visit us: www.ParcelQuest.com
**The information provided here is deemed reliable, but is not guaranteed.
© 2020 ParcelQuest

DETAIL REPORT

Property Address: **MITCHELL CANYON RD CLAYTON CA 94517**

Ownership

Parcel# (APN):	**121-090-016-1**
Parcel Status:	
Owner Name:	**CLAYTON FRED B TRE ISOBE KAREN E**
Mailing Addr:	**825 ORANGE AVE SAN CARLOS CA 94070-3829**
Legal Description:	**POR NW QR SEC 14 T1N R1W 4.51 AC**

Assessment

Total Value:	**$41,274**	Use Code:	**18**	Use Type:	**VACANT**
Land Value:	**$41,274**	Tax Rate Area:	**013-006**	Zoning:	
Impr Value:		Year Assd:	**2019**	Census Tract:	
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording date:	**09/05/2018**	**04/29/2017**	**07/07/2015**	**09/05/2018**
Recording Doc:	**141867**		**139567**	**141867**
Doc type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**4.510**	Spaces:		Site influence:	
Lot SqFt:	**196,456**	Garage SqFt:		Timber Preserve:	
Year Built:		Bsmt SqFt:	**N/A**	Ag Preserve:	
Effective Year:					

Call us 888-217-8999
Visit us: www.ParcelQuest.com
**The information provided here is deemed reliable, but is not guaranteed.
© 2020 ParcelQuest

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5957509.3
February 03, 2020

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/03/20

Site Name:

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5957509.3

Client Name:

AdvancedGeo, Inc.
837 Shaw Road
Stockton, CA 92515
Contact: Diane Becker

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AdvancedGeo, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # D1FD-4374-A73B

PO # NA

Project Clayton Trust Property

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: D1FD-4374-A73B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

AdvancedGeo, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Clayton Trust Property

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5957509.8

February 03, 2020

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/03/20

Site Name:

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5957509.8

Client Name:

AdvancedGeo, Inc.
837 Shaw Road
Stockton, CA 92515
Contact: Diane Becker

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: June 12, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1966	1"=500'	Flight Date: May 15, 1966	USDA
1963	1"=500'	Flight Date: July 16, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: August 13, 1958	USDA
1950	1"=500'	Flight Date: March 12, 1950	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1946	1"=500'	Flight Date: July 22, 1946	USGS
1939	1"=500'	Flight Date: July 25, 1939	USDA

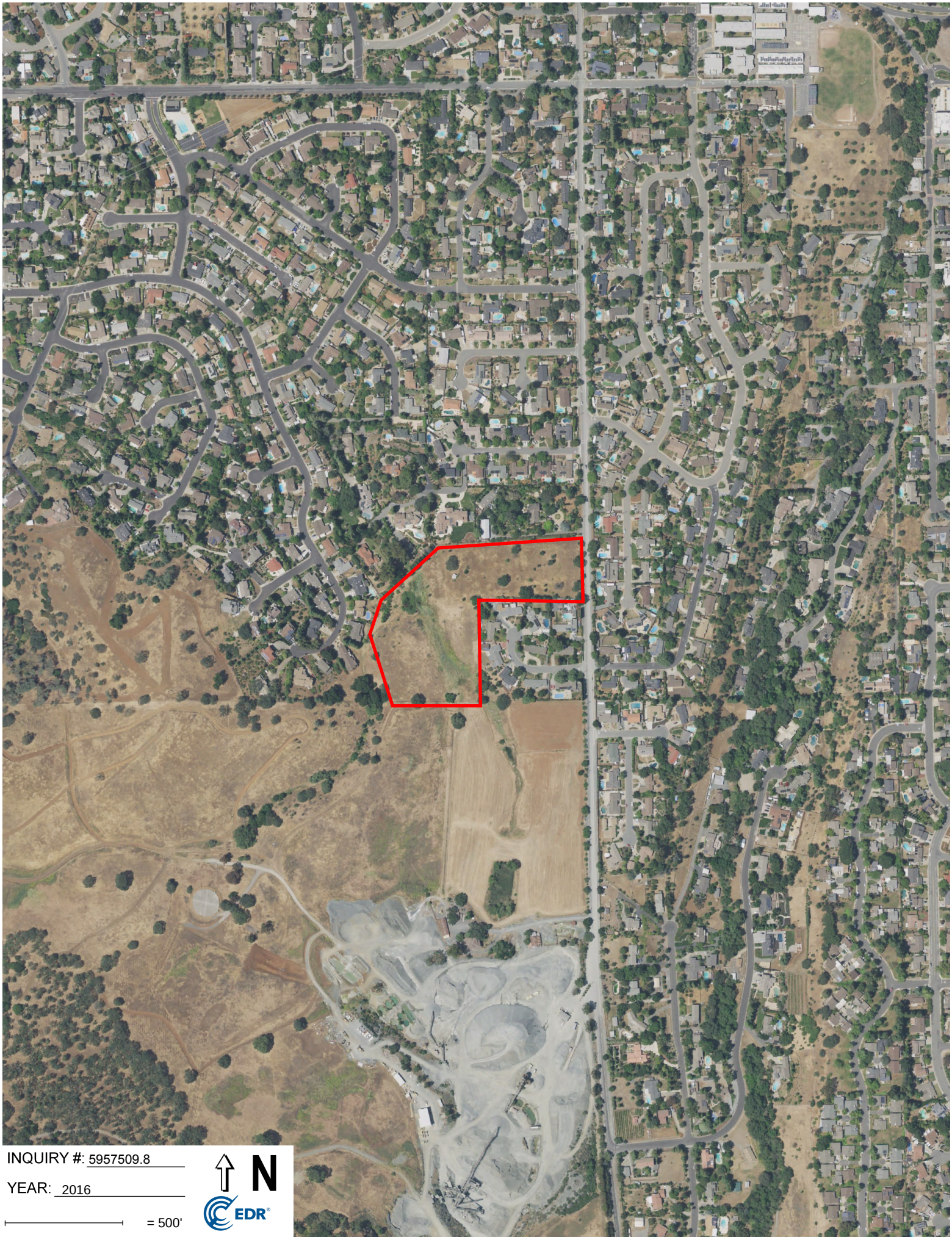
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

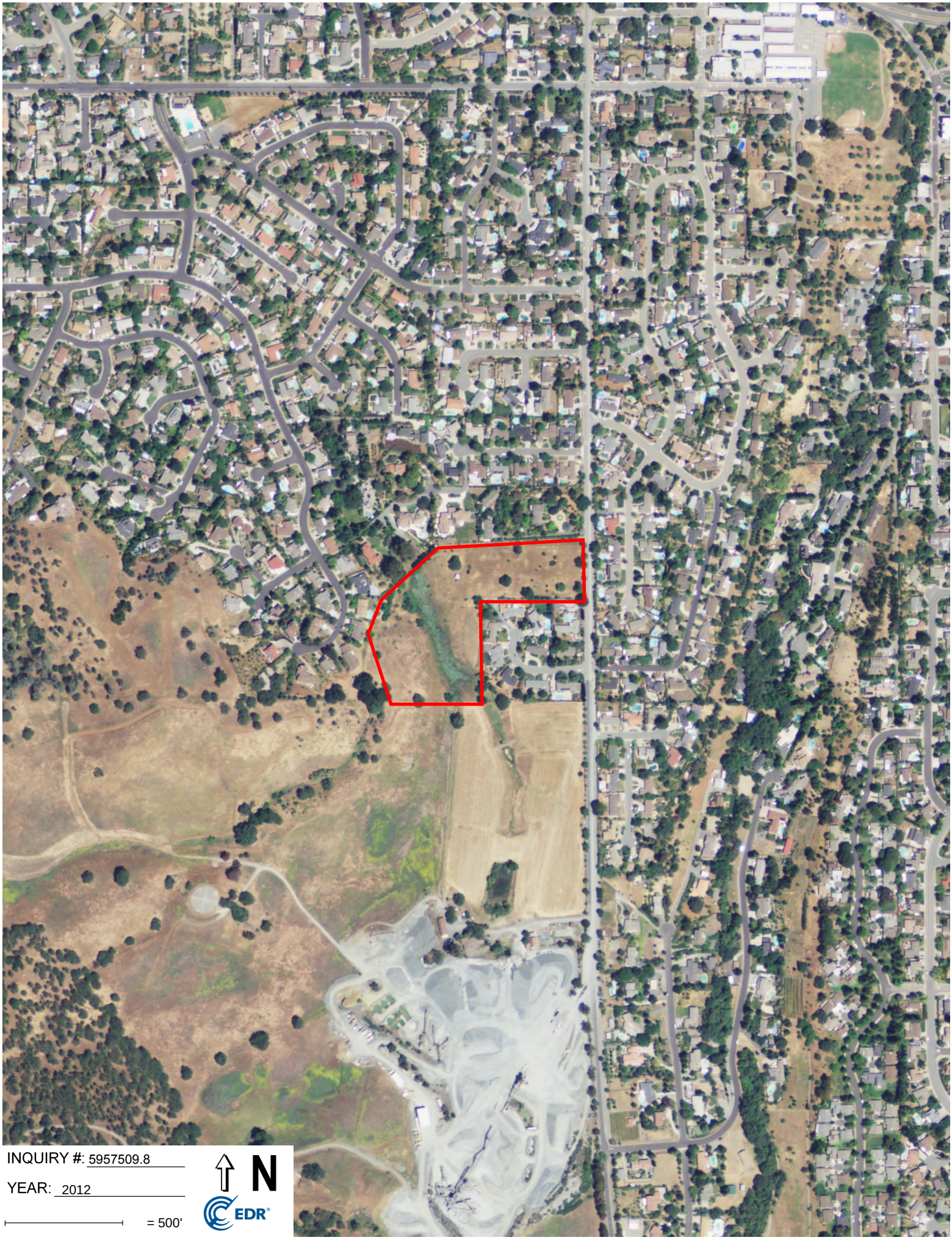
Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.


INQUIRY #: 5957509.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5957509.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5957509.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5957509.8
YEAR: 2006
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1998

= 500'

N

EDR



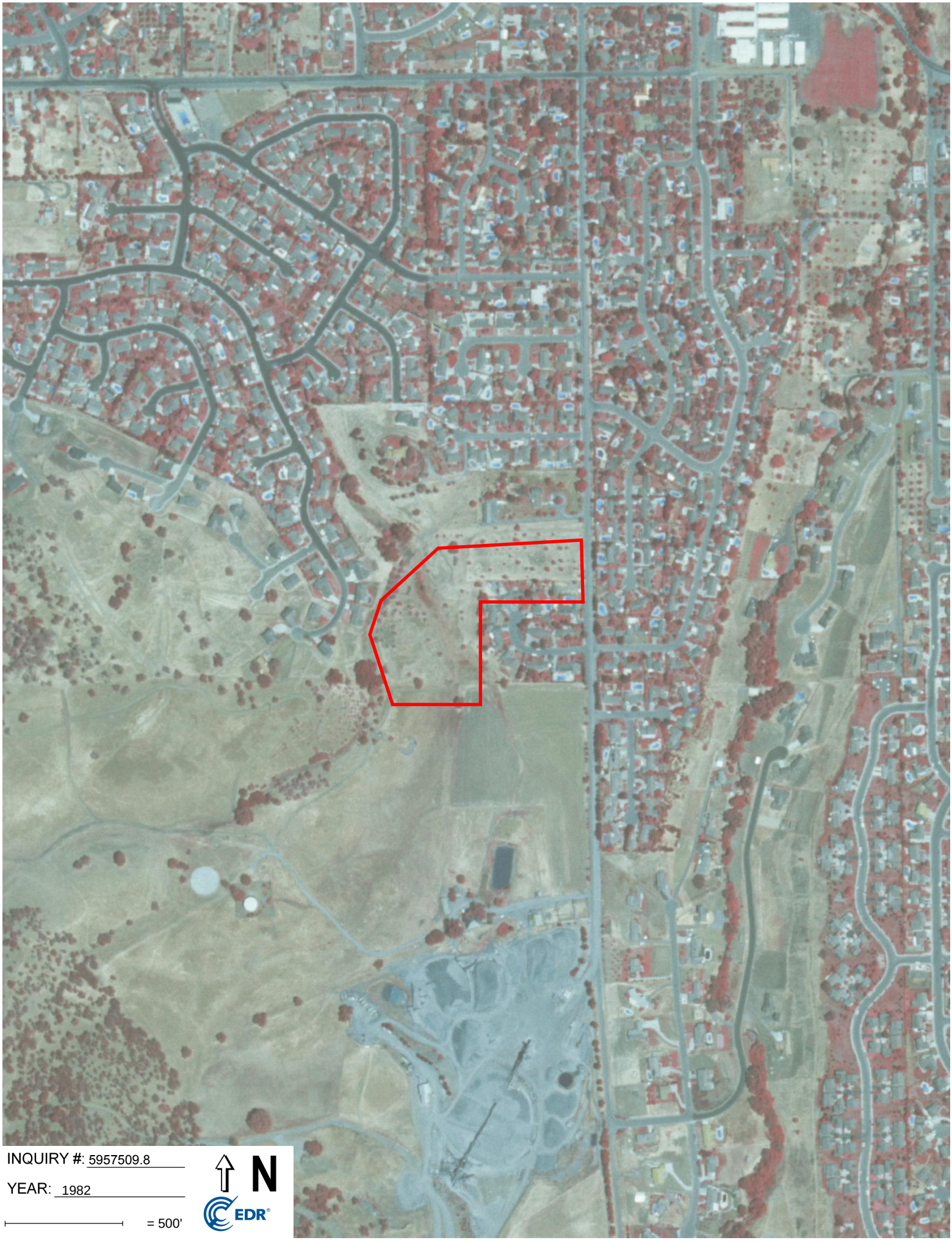
INQUIRY #: 5957509.8

YEAR: 1993

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1982
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1979

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1966
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1963

= 500'

N

EDR



INQUIRY #: 5957509.8

YEAR: 1958

= 500'

N

EDR



INQUIRY #: 5957509.8

YEAR: 1950

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1949
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1946

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1939
= 500'
N
EDR

Clayton Trust Property

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5957509.4

February 03, 2020

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/03/20

Site Name:	Client Name:
Clayton Trust Property	AdvancedGeo, Inc.
Mitchell Canyon Road	837 Shaw Road
Clayton, CA 94517	Stockton, CA 92515
EDR Inquiry # 5957509.4	Contact: Diane Becker

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by AdvancedGeo, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Clayton Trust Property

Coordinates:

Latitude:	37.935244 37° 56' 7" North
Longitude:	-121.94392 -121° 56' 38" West
UTM Zone:	Zone 10 North
UTM X Meters:	592803.77
UTM Y Meters:	4199156.08
Elevation:	495.66' above sea level

Maps Provided:

2012	1898
1994	1896
1980	
1973	
1968	
1953	
1943	
1912	

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

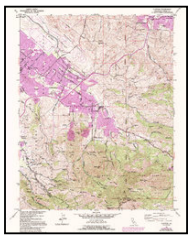
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



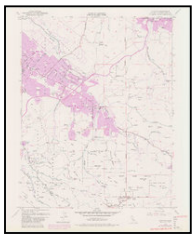
Clayton
2012
7.5-minute, 24000

1994 Source Sheets



Clayton
1994
7.5-minute, 24000
Aerial Photo Revised 1979

1980 Source Sheets



Clayton
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets

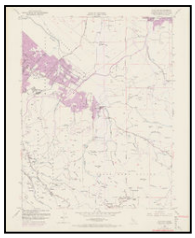


Clayton
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets



Clayton
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1953 Source Sheets



Clayton
1953
7.5-minute, 24000
Aerial Photo Revised 1949

1943 Source Sheets



Mt. Diablo
1943
15-minute, 62500
Aerial Photo Revised 1937

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1898 Source Sheets



Mt. Diablo
1898
15-minute, 62500

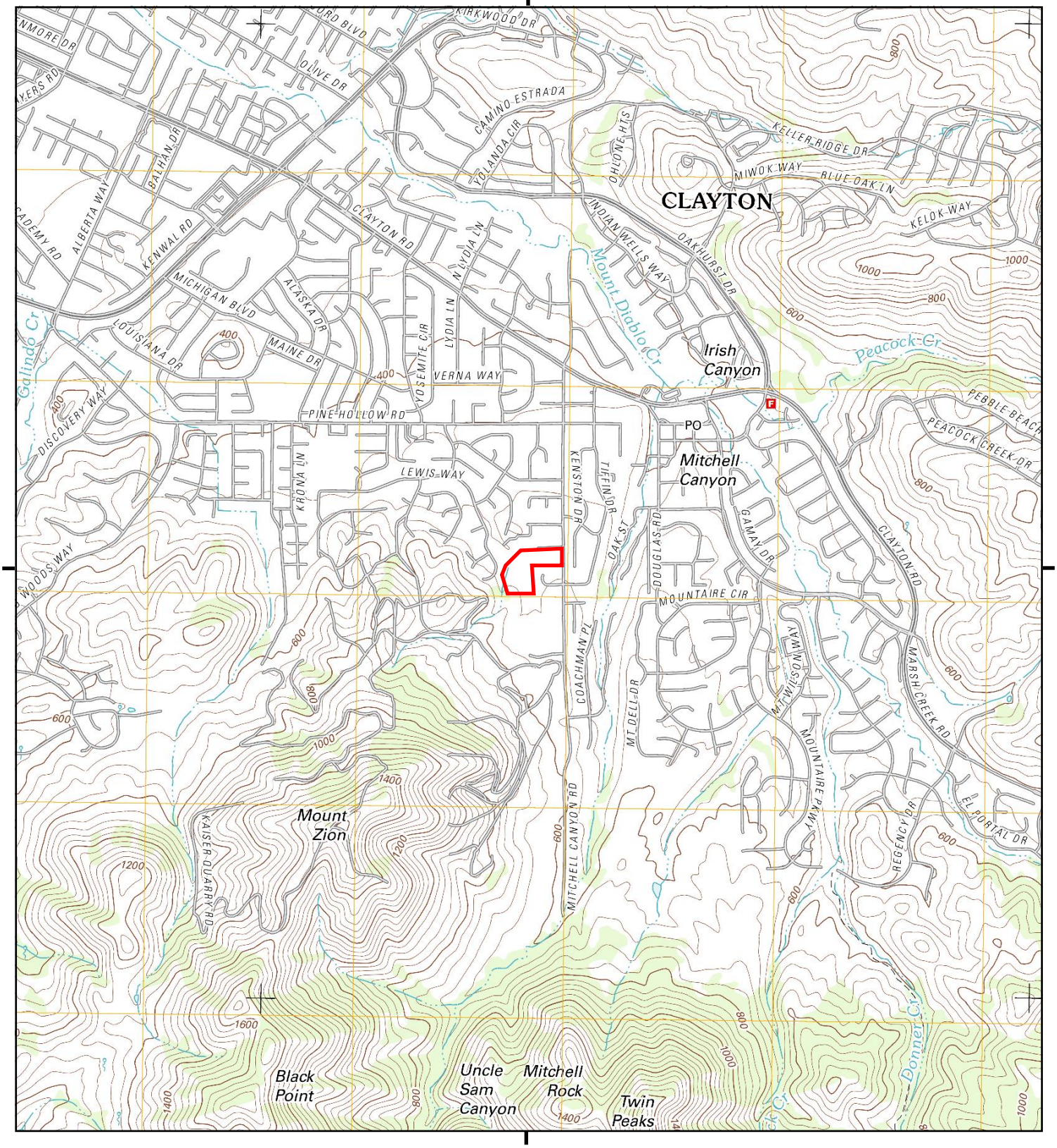
1896 Source Sheets



Mt. Diablo
1896
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

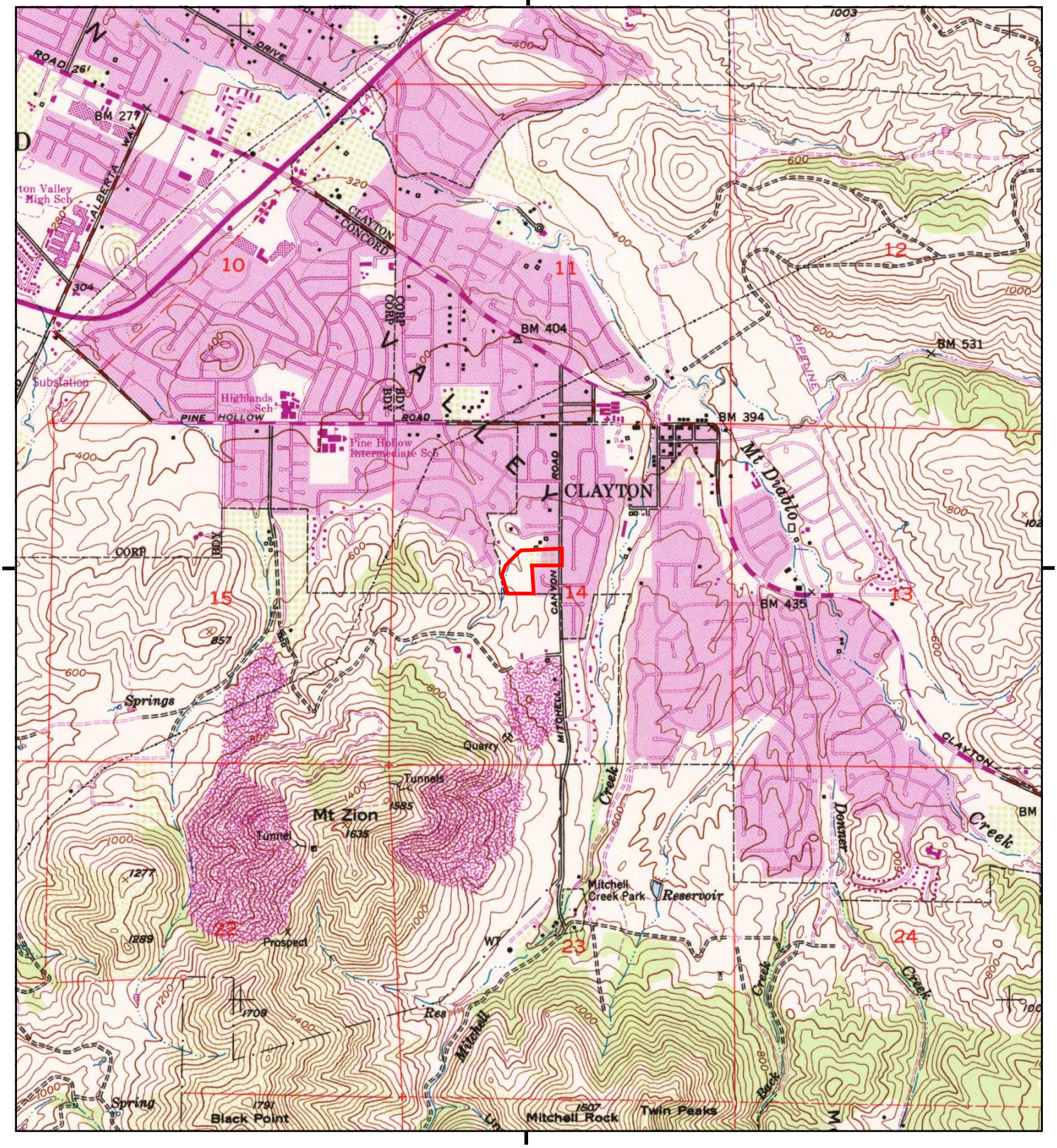
TP, Clayton, 2012, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1994



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

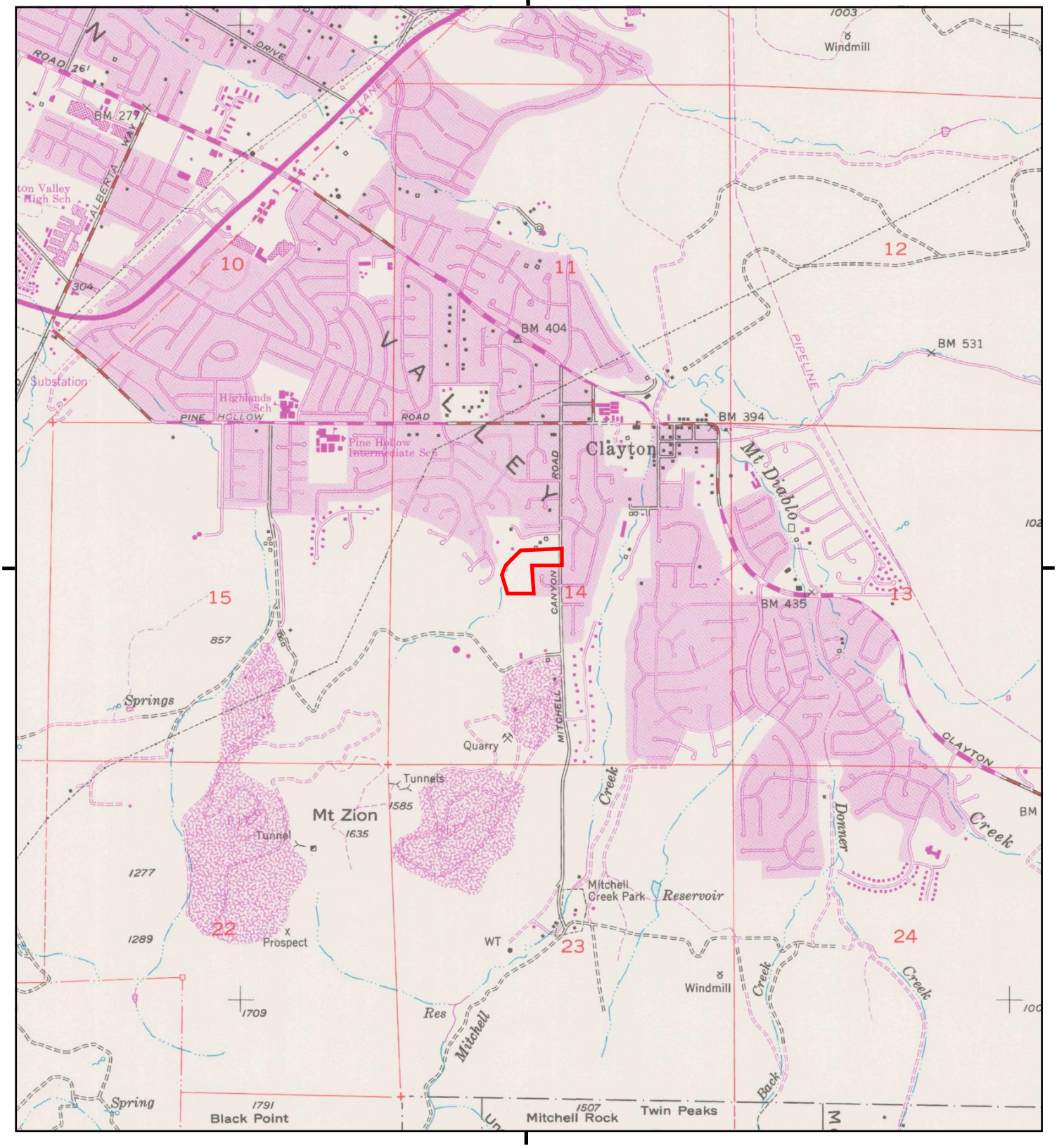
TP, Clayton, 1994, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

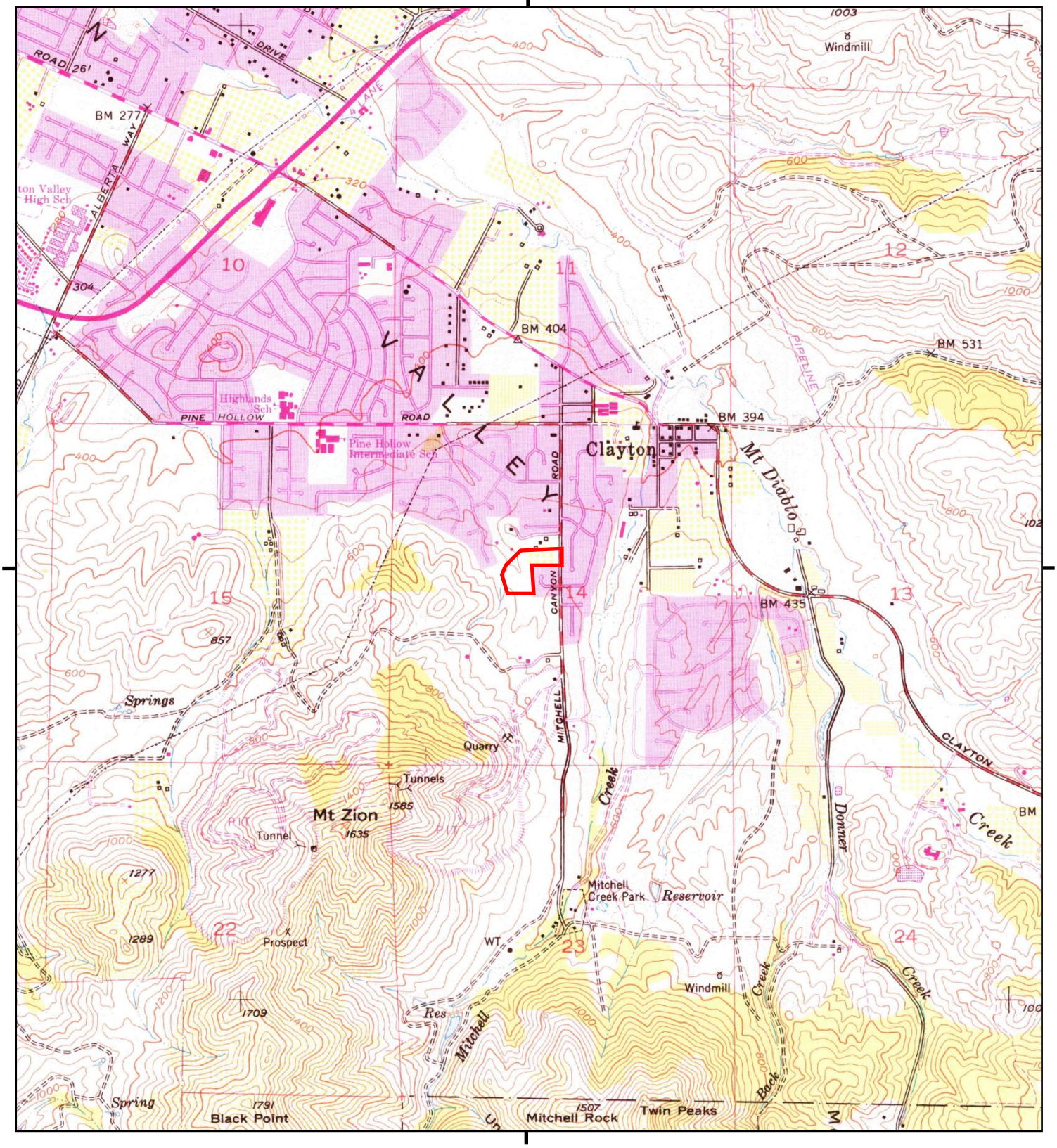
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1980, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

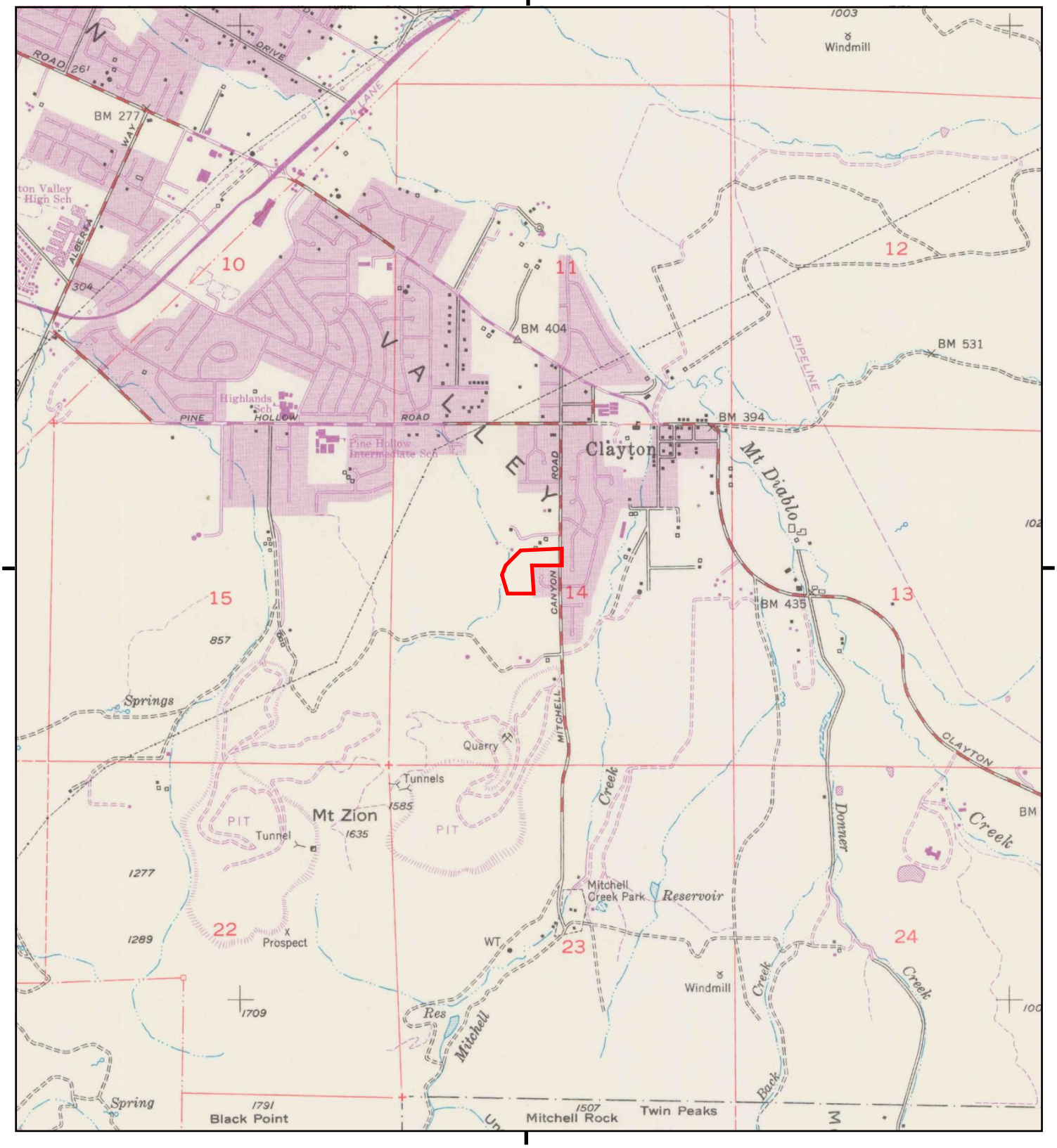
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1973, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

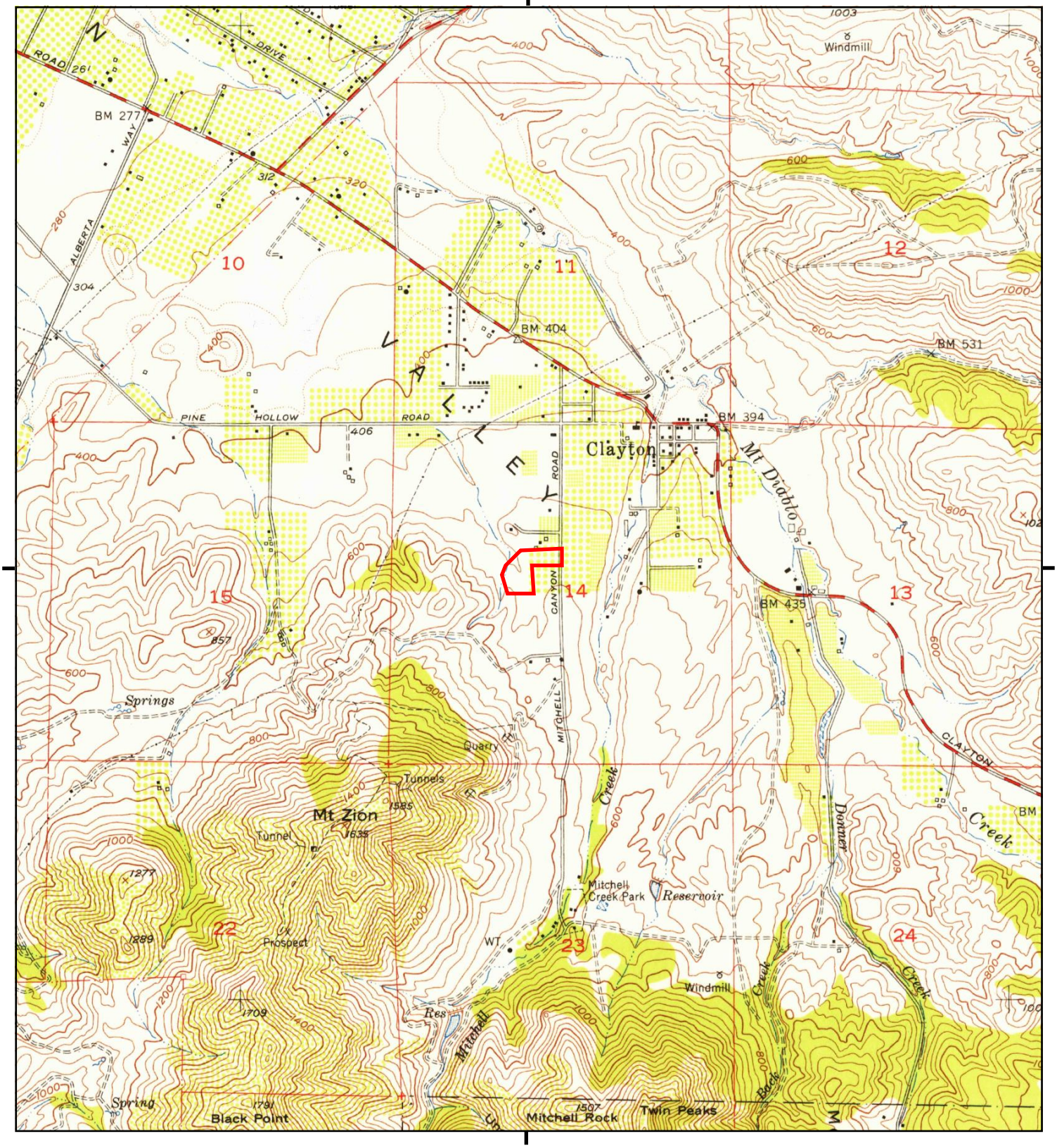
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1968, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

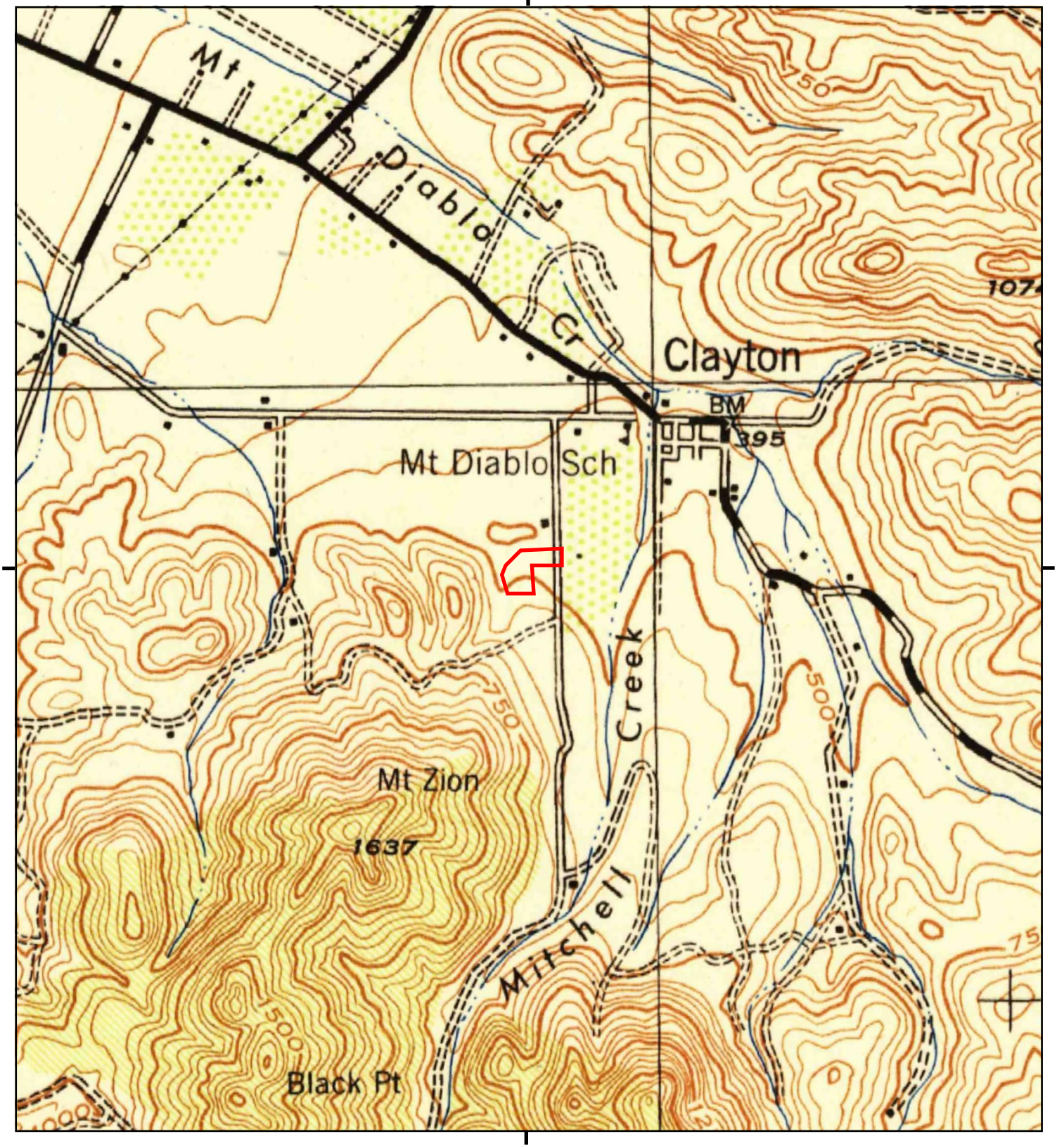
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1953, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

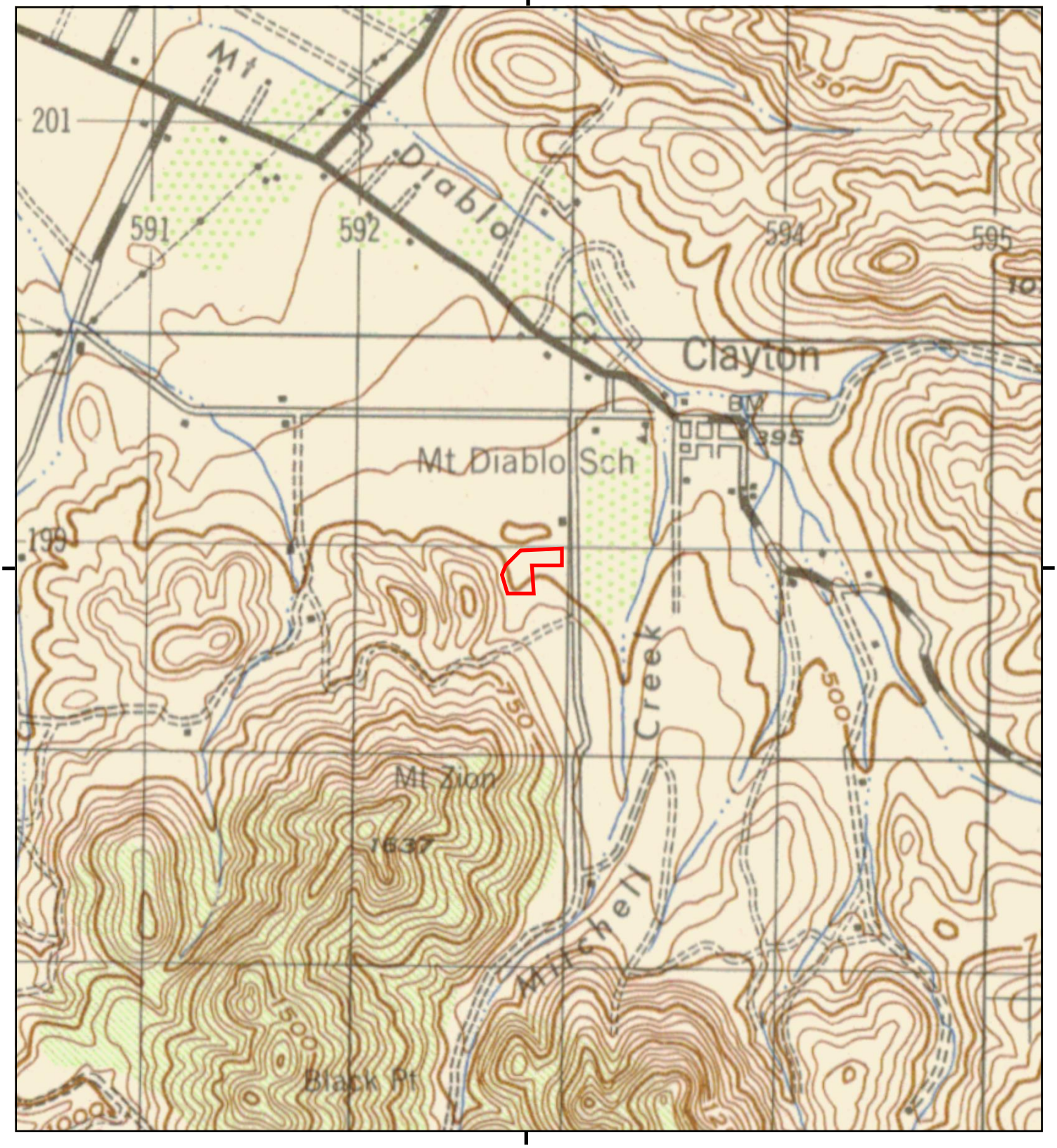
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Diablo, 1943, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

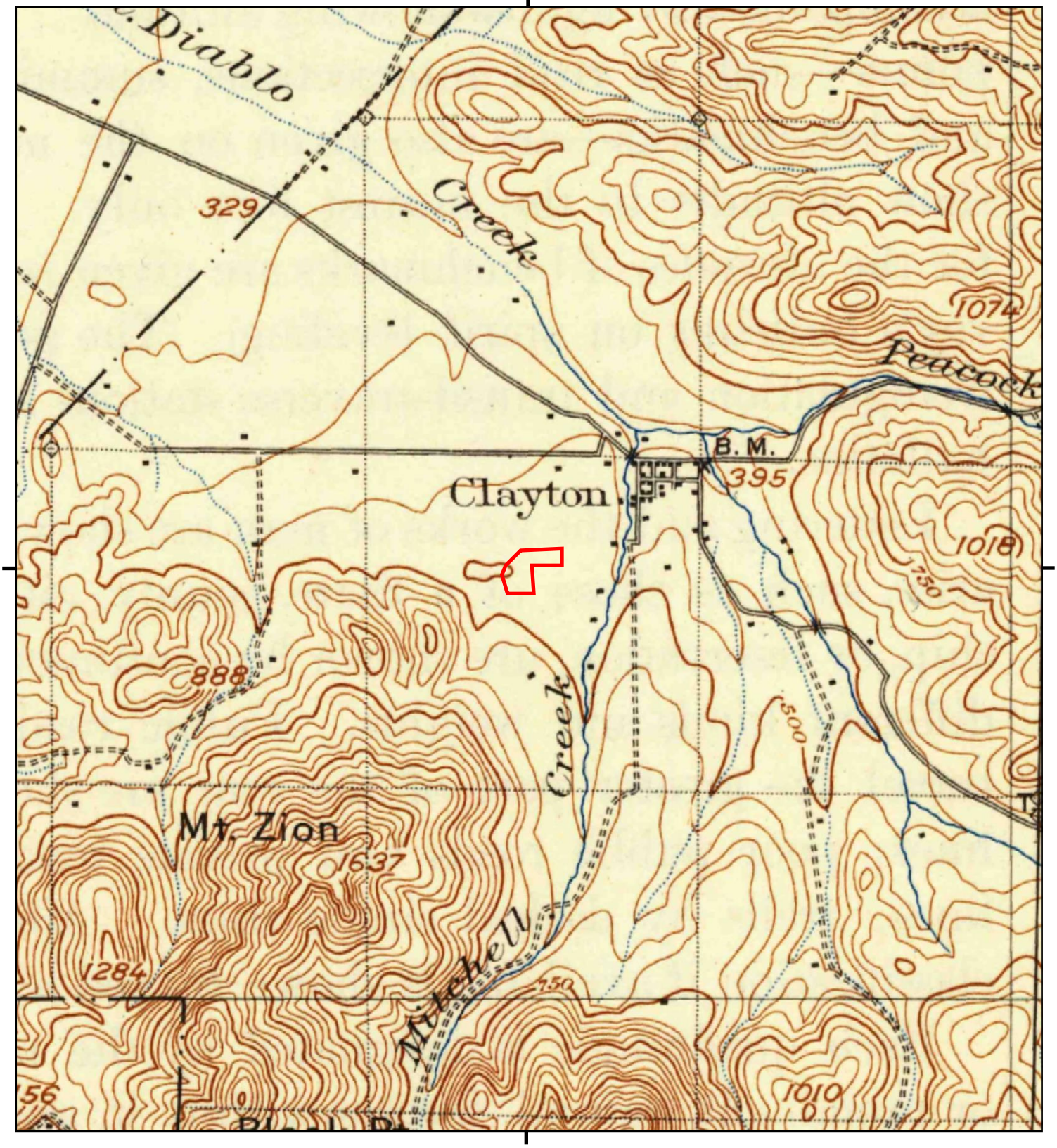
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, MT. DIABLO, 1912, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

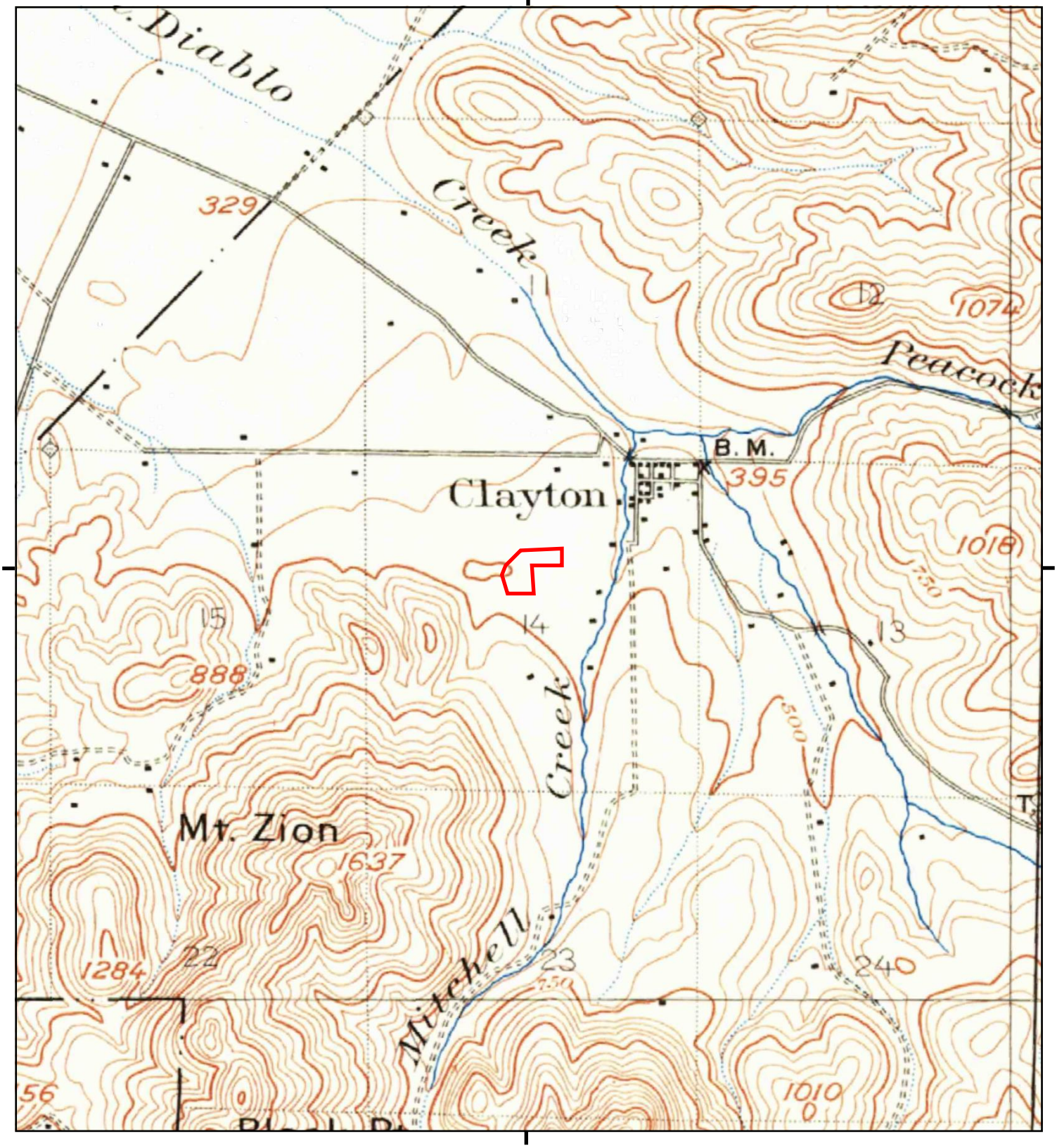
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Diablo, 1898, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Diablo, 1896, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5957509.5
February 05, 2020

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

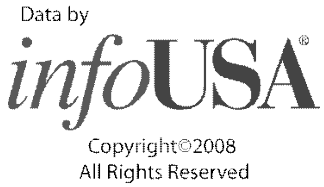
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1989	☑	☐	Haines Criss-Cross Directory
1985	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1975	☑	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

Mitchell Canyon Road
Clayton, CA 94517

Year	*CD Image*	*Source*
MITCHELL CANYON RD		
2014	pg A1	EDR Digital Archive
2010	pg A2	EDR Digital Archive
2005	pg A3	EDR Digital Archive
2000	pg A4	EDR Digital Archive
1995	pg A5	EDR Digital Archive
1992	pg A6	EDR Digital Archive
1989	pg A7	Haines Criss-Cross Directory
1985	pg A8	Haines Criss-Cross Directory
1985	pg A9	Haines Criss-Cross Directory
1980	pg A10	Haines Criss-Cross Directory
1975	pg A11	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2014

96	MITCHELL CANYON VISITOR CENTER
	MOUNT DIABLO SECTOR
	PARKS AND RECREATION CAL DEPT
100	ELLIOTT, JACQUELINE
	KATHY, PRATT
	MORRISON, CAMERON M
	PRATT, KATHY A
	RADWANSKI, STEPHEN
	SCHWARTZ, SUE C
515	CEMEX CNSTR MTLS PCF LLC
555	OCCUPANT UNKNOWN,
835	COOPER, WILLIAM C
895	STICE, JOHN E
999	LUCERO, ELIAZAR
1007	MELIN, BRIAN K
1013	SPENCER, SHAWN R
1019	OCCUPANT UNKNOWN,
1025	JARVIS, MATTHEW
1031	LUCKY, STEVEN W
1068	WESTON, TAMRA S
1074	BARTON, JOHN R
1080	OCCUPANT UNKNOWN,
1086	SCOTT, AMY E
1092	SCHWANDT, JAMES W
1098	LEWIS MICHAEL E
	LEWIS, MICHAEL E
1212	BYRD, KENNETH F

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2010

96	MOUNT DIABLO SECTOR
	STATE PARKS CALIFORNIA
100	KATHY, PRATT
	MORRISON, CAMERON M
	PRATT, KATHY A
	SALMON, EDWARD M
	SCHWARTZ, SUSAN C
	WHITE, TINA L
515	CEMEX MITCHELL
555	OCCUPANT UNKNOWN,
835	COOPER, WILLIAM C
895	SOLSTICE ELECTRIC DESIGN LLC
961	SHINGLETON, ARTHUR D
999	LUCERO, ELIAZAR
1007	TERRY, ANTHONY Y
1013	OCCUPANT UNKNOWN,
1019	OCCUPANT UNKNOWN,
1025	1UP SHIRTS LLC
	HARTLEY, ANNETTE V
1031	WILLERFORD, FRED J
1068	MITOLO KEN CONSTRUCTION
	OCCUPANT UNKNOWN,
1074	SIEGEL, VIRGINIA M
1080	MOLE, GERALD F
1086	FREEMAN, LUCY O
1092	SCHWANDT, JAMES W
1098	LEWIS MICHAEL E
	LEWIS, MIKE E
1212	BYRD, KENNETH F

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2005

515	R M C CEMEX MATERIALS INC
835	VANCE, DAN A
895	ST JUDE TRUST NO 1
	STIELOW, GABRIEL R
901	STICE, JOHN J
961	SHINGLETON, ARTHUR D
999	OCCUPANT UNKNOWN,
1007	TERRY, ANTHONY Y
1013	OCCUPANT UNKNOWN,
1025	HARTLEY, ANNETTE V
1031	WILLERFORD, FRED J
1068	ROUSE, KEVIN R
1074	SIEGEL, VIRGINIA M
1080	OCCUPANT UNKNOWN,
1086	FREEMAN, LUCY O
1092	SCHWANDT, JAMES W
1098	LEWIS MICHAEL E
	LEWIS, MIKE E
1212	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2000

100 RADWANSKI, S
515 RMC PACIFIC MATERIALS INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 1995

515	RMC LONESTAR
835	CONTRA COSTA HARDWOOD FLR SVC
999	BROKEN WHEEL COCKTAIL LOUNGE
1007	CG ENTERPRISES

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 1992

100	SMITH CUSTOM FIREARMS
515	RMC LONESTAR
555	YANCEY, DAVID B
835	CONTRA COSTA HARDWOOD FLR SVC
895	GARAVENTA, S
898	CUTLER, MARK L
901	STICE, J
910	MAITLAND, JOHN B
999	PETERSON, VERNON L
	WHEEL HOUSE RESTAURANT
1007	CG ENTERPRISES
	GOODYEAR, J R
1019	MARCELLA SHIERS ORIGINAL
1074	WILLIAMSON, RONALD D
1092	SCHWANDT, JAMES

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1989

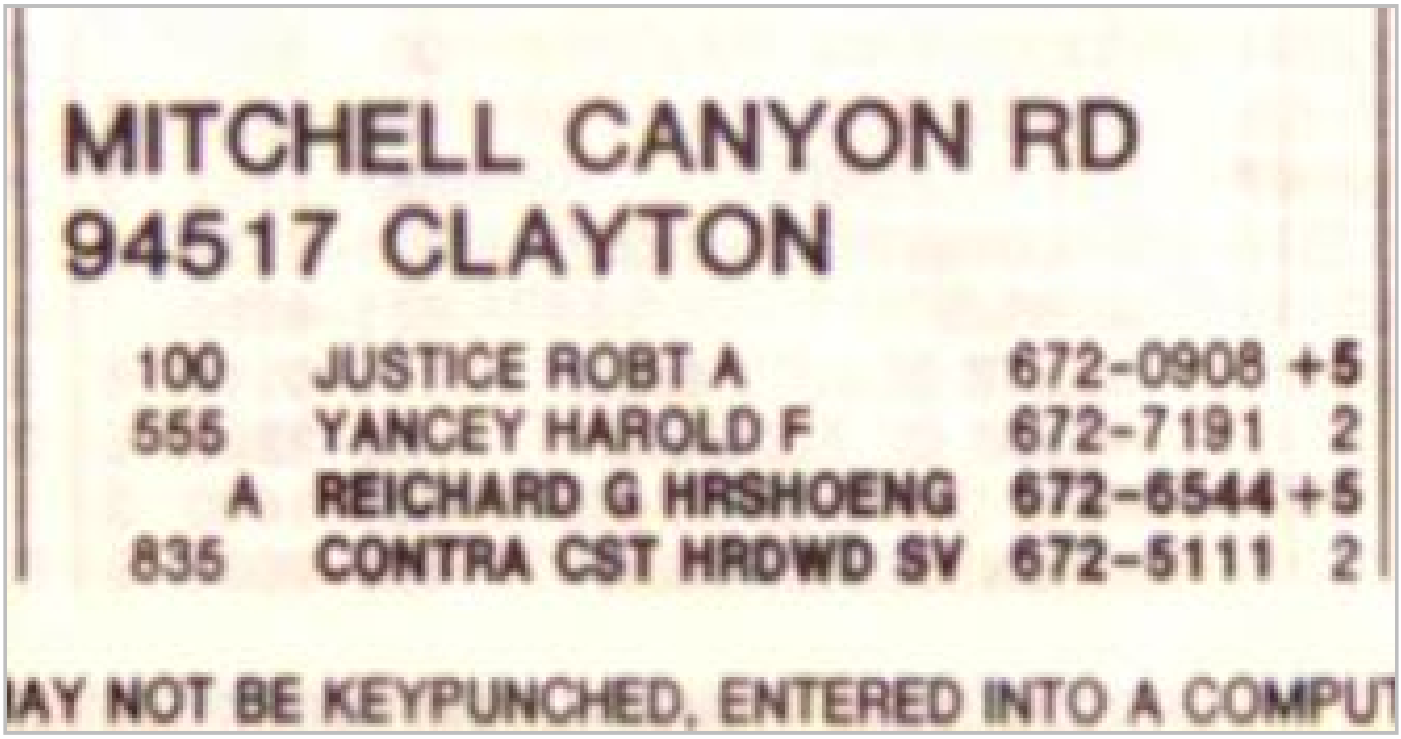
MITCHELL CNYN RD
94517 CLAYTON

100	JUSTICE Irene S	672-0908	
	JUSTICE Robt A	672-0908	
555	YANCEY Harold F	672-7191	2
835	★CONTRA CST HRDWD SV	672-5111	2
	★VANCE DAN	672-5111	2
895	GARAVENTA S	672-5088	2
898	CUTLER Mark L	672-3921	5
901	STICE Julianne	672-5041	5
910	MAITLAND Etta F	672-1418	+9
	MAITLAND John B	672-1418	+9
	MAITLAND Johnny	672-1905	+9
	MAITLAND Joshua	672-1905	+9
961	XXXX	00	
999	PETERSON Vernon L	672-5052	2
1007	★C G ENTERPRISES	672-3456	0
	GOODYEAR J Richard	672-3456	
	GOODYEAR Margery	672-3456	
1013	SPENCER John E	672-5335	
	SPENCER Shawn	672-5335	
1019	XXXX	00	
1025	LARSEN Larry	672-9888	+9
	TIBBITTS Tammie	672-4517	+9
1031	MARTIN Stu	672-1944	+9
1074	WILLIAMSON Ronald D	672-2688	
	WILLIAMSON Sandra	672-2688	
1080	HOOSHMAND B	672-3905	+9
1092	SCHWANDT Christie	672-0199	
	SCHWANDT Jas	672-0199	6
	SCHWANDT Jas	672-7198	7
1098	XXXX	00	
NO #	★CA ST PKS	672-4266	6
NO #	★R M C LONESTAR	672-4900	+9
NO #	RADWANSKI S	672-7289	6
NO #	WILLIAMS Carolyn	672-2758	7
NO #	WILLIAMS Michael A	672-2758	

★ 5 BUS 30 RES 9 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1985



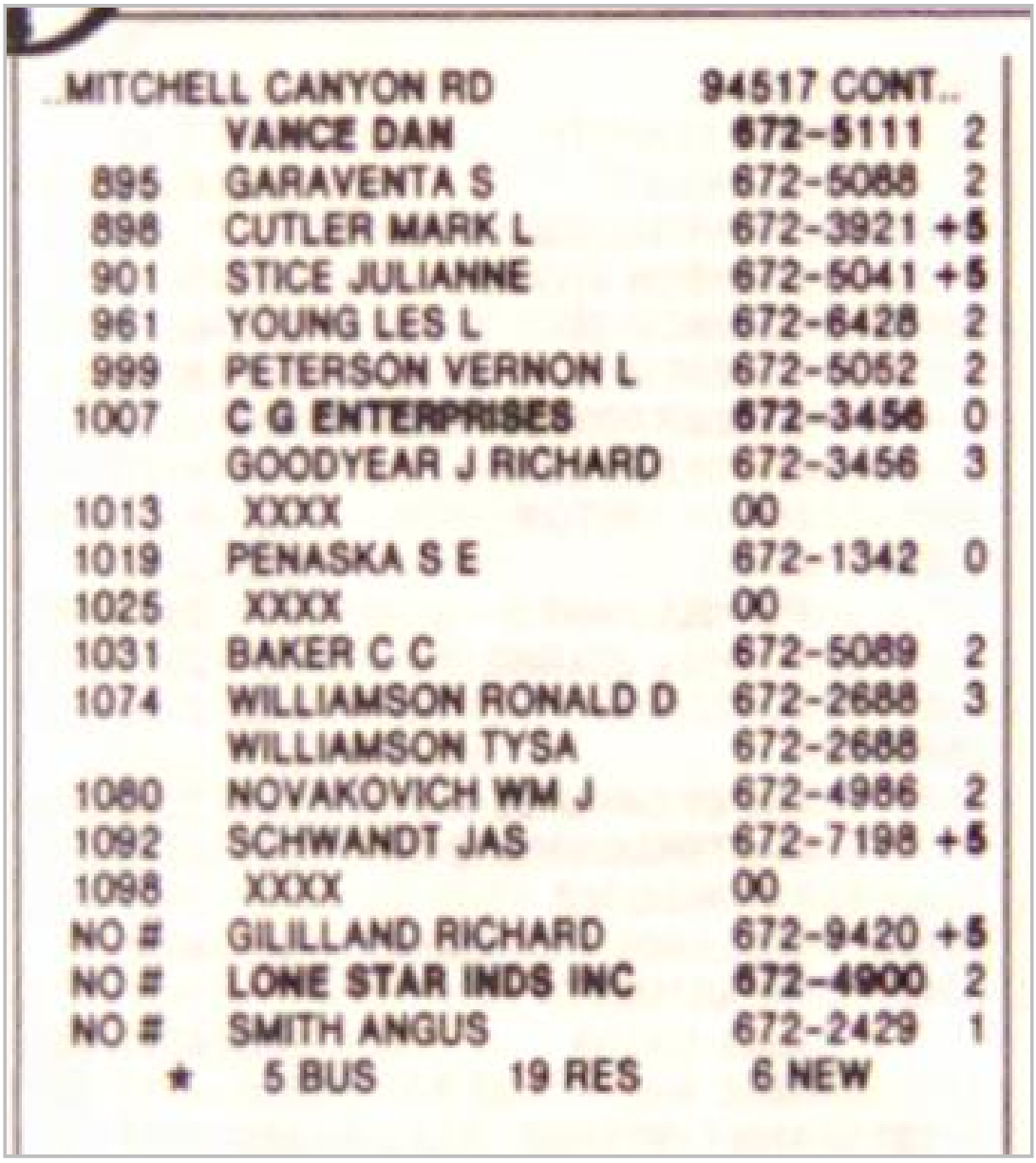
MITCHELL CANYON RD
94517 CLAYTON

100	JUSTICE ROBT A	672-0908	+5
555	YANCEY HAROLD F	672-7191	2
A	REICHARD G HRSHOENG	672-6544	+5
835	CONTRA CST HRDWD SV	672-5111	2

IAY NOT BE KEYPUNCHED, ENTERED INTO A COMPUT

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

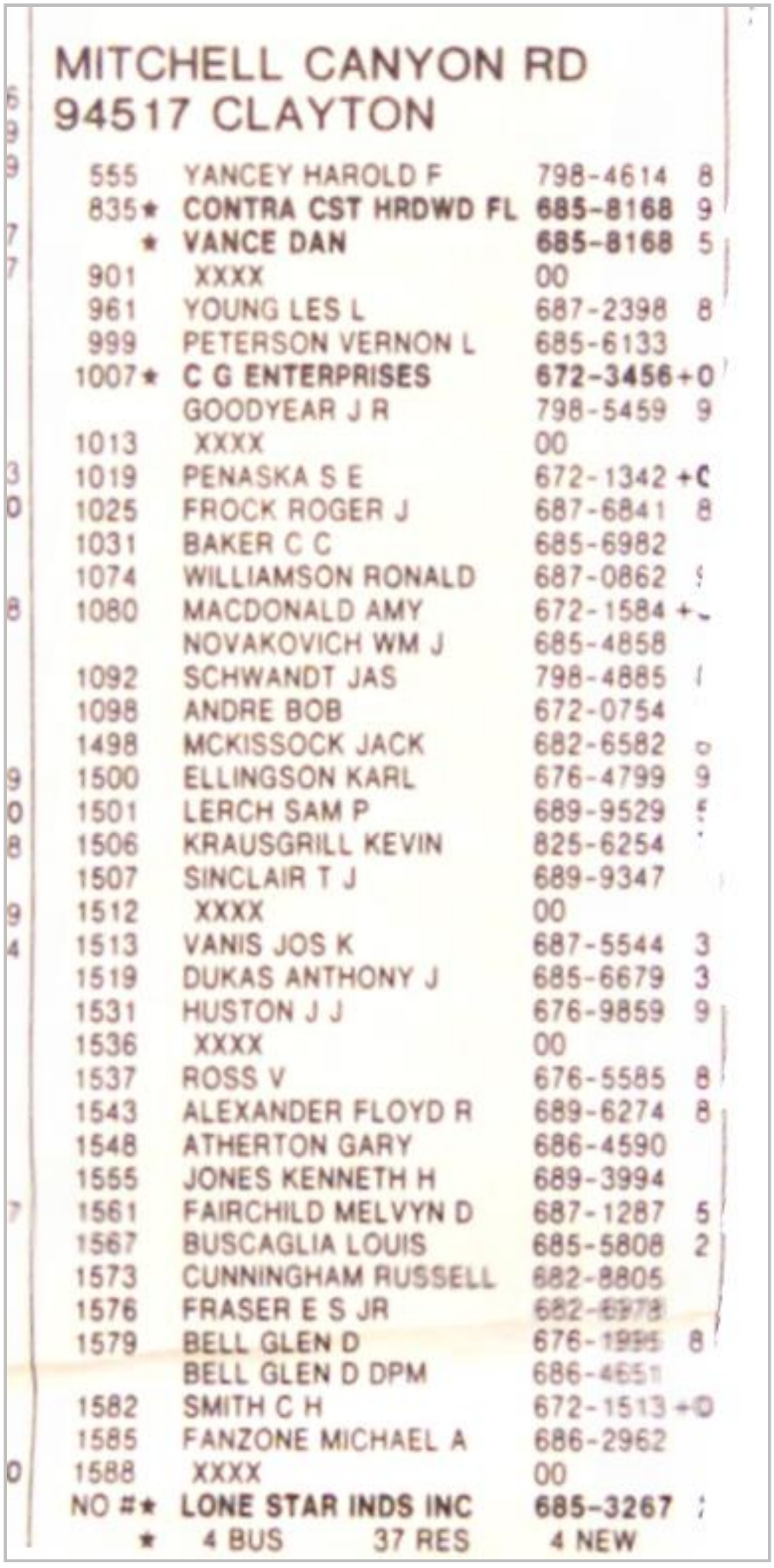
MITCHELL CANYON RD 1985



MITCHELL CANYON RD		94517 CONT..	
	VANCE DAN	672-5111	2
895	GARAVENTA S	672-5088	2
898	CUTLER MARK L	672-3921	+5
901	STICE JULIANNE	672-5041	+5
961	YOUNG LES L	672-6428	2
999	PETERSON VERNON L	672-5052	2
1007	C G ENTERPRISES	672-3456	0
	GOODYEAR J RICHARD	672-3456	3
1013	XXXX	00	
1019	PENASKA S E	672-1342	0
1025	XXXX	00	
1031	BAKER C C	672-5089	2
1074	WILLIAMSON RONALD D	672-2688	3
	WILLIAMSON TYSA	672-2688	
1080	NOVAKOVICH WM J	672-4986	2
1092	SCHWANDT JAS	672-7198	+5
1098	XXXX	00	
NO #	GILILLAND RICHARD	672-9420	+5
NO #	LONE STAR INDS INC	672-4900	2
NO #	SMITH ANGUS	672-2429	1
*	5 BUS 19 RES	6 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1980

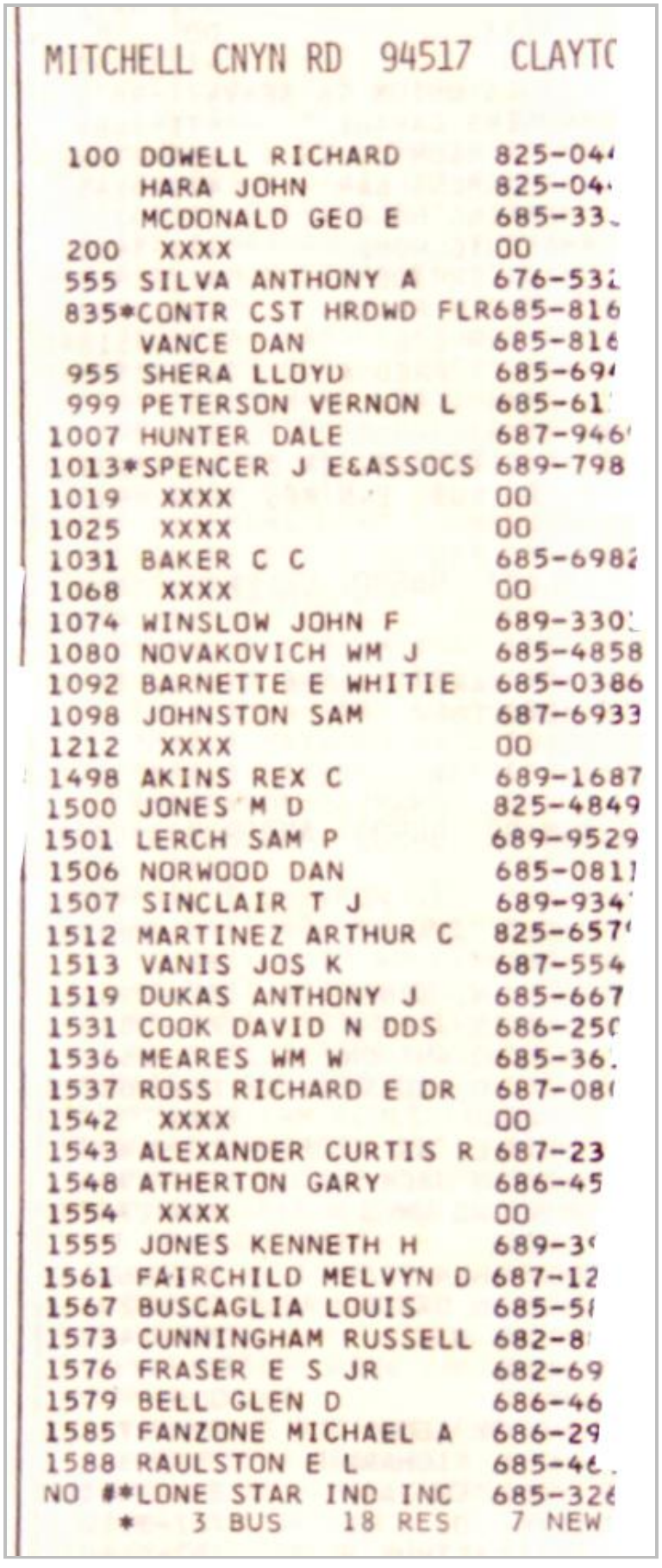


MITCHELL CANYON RD
94517 CLAYTON

555	YANCEY HAROLD F	798-4614	8
835★	CONTRA CST HRDWD FL	685-8168	9
★	VANCE DAN	685-8168	5
901	XXXX	00	
961	YOUNG LES L	687-2398	8
999	PETERSON VERNON L	685-6133	
1007★	C G ENTERPRISES	672-3456	+0
	GOODYEAR J R	798-5459	9
1013	XXXX	00	
1019	PENASKA S E	672-1342	+C
1025	FROCK ROGER J	687-6841	8
1031	BAKER C C	685-6982	
1074	WILLIAMSON RONALD	687-0862	
1080	MACDONALD AMY	672-1584	+
	NOVAKOVICH WM J	685-4858	
1092	SCHWANDT JAS	798-4885	
1098	ANDRE BOB	672-0754	
1498	MCKISSOCK JACK	682-6582	
1500	ELLINGSON KARL	676-4799	9
1501	LERCH SAM P	689-9529	
1506	KRAUSGRILL KEVIN	825-6254	
1507	SINCLAIR T J	689-9347	
1512	XXXX	00	
1513	VANIS JOS K	687-5544	3
1519	DUKAS ANTHONY J	685-6679	3
1531	HUSTON J J	676-9859	9
1536	XXXX	00	
1537	ROSS V	676-5585	8
1543	ALEXANDER FLOYD R	689-6274	8
1548	ATHERTON GARY	686-4590	
1555	JONES KENNETH H	689-3994	
1561	FAIRCHILD MELVYN D	687-1287	5
1567	BUSCAGLIA LOUIS	685-5808	2
1573	CUNNINGHAM RUSSELL	682-8805	
1576	FRASER E S JR	682-6978	
1579	BELL GLEN D	676-1995	8
	BELL GLEN D DPM	686-4651	
1582	SMITH C H	672-1513	+0
1585	FANZONE MICHAEL A	686-2962	
1588	XXXX	00	
NO #★	LONE STAR INDS INC	685-3267	
★	4 BUS 37 RES	4 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1975



MITCHELL CNYN RD 94517 CLAYTC

100	DOWELL RICHARD	825-04
	HARA JOHN	825-04
	MCDONALD GEO E	685-33
200	XXXX	OO
555	SILVA ANTHONY A	676-53
835*	CONTR CST HRDWD FLR	685-816
	VANCE DAN	685-816
955	SHERA LLOYD	685-69
999	PETERSON VERNON L	685-61
1007	HUNTER DALE	687-946
1013*	SPENCER J E&ASSOCS	689-798
1019	XXXX	OO
1025	XXXX	OO
1031	BAKER C C	685-698
1068	XXXX	OO
1074	WINSLOW JOHN F	689-330
1080	NOVAKOVICH WM J	685-4858
1092	BARNETTE E WHITIE	685-0386
1098	JOHNSTON SAM	687-6933
1212	XXXX	OO
1498	AKINS REX C	689-1687
1500	JONES M D	825-4849
1501	LERCH SAM P	689-9529
1506	NORWOOD DAN	685-081
1507	SINCLAIR T J	689-934
1512	MARTINEZ ARTHUR C	825-657
1513	VANIS JOS K	687-554
1519	DUKAS ANTHONY J	685-667
1531	COOK DAVID N DDS	686-25
1536	MEARES WM W	685-36
1537	ROSS RICHARD E DR	687-08
1542	XXXX	OO
1543	ALEXANDER CURTIS R	687-23
1548	ATHERTON GARY	686-45
1554	XXXX	OO
1555	JONES KENNETH H	689-3
1561	FAIRCHILD MELVYN D	687-12
1567	BUSCAGLIA LOUIS	685-5
1573	CUNNINGHAM RUSSELL	682-8
1576	FRASER E S JR	682-69
1579	BELL GLEN D	686-46
1585	FANZONE MICHAEL A	686-29
1588	RAULSTON E L	685-46
NO #	*LONE STAR IND INC	685-32

* 3 BUS 18 RES 7 NEW

AEI Consultants

August 9, 2019

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Property Information:
Mitchell Canyon Road
Clayton, Contra Costa County, California 94517

Project Information:
AEI Project No. 408841
Client Reference No. 10020157

Prepared For:
Ponderosa Homes
5020 Franklin Drive Suite 200
Pleasanton, California 94588

Prepared By:
AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek, California 94597-3940

Environmental Due Diligence

Building Assessments

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Risk Management

Zoning Analysis Reports & ALTA Surveys

AEI Consultants

August 9, 2019

Carole Morris
Ponderosa Homes
5020 Franklin Drive Suite 200
Pleasanton, California 94588

Subject: **Phase I Environmental Site Assessment**
Mitchell Canyon Road
Clayton, California 94517
AEI Project No. 408841
Client Reference No. 10020157

Dear Carole Morris:

AEI Consultants is pleased to provide the *Phase I Environmental Site Assessment* of the above referenced property. This assessment was authorized and performed in accordance with the scope of services engaged.

We appreciate the opportunity to provide services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (925) 746-6004 or pmcintyre@aeiconsultants.com.

Sincerely,

Peter McIntyre, PG
Executive Vice President
AEI Consultants

PROJECT SUMMARY

Mitchell Canyon Road, Clayton, Contra Costa County, California 94517
AEI Project No. 408841

Report Section		REC	CREC	HREC	OEC	Recommended Action
1.0	Introduction					None
2.0	Site and Vicinity Description					None
3.0	Historical Review of Site and Vicinity				✔	See Findings
4.0	Regulatory Agency Records Review					None
5.0	Regulatory Database Records Review					None
6.0	Interviews and User Provided Information					None
7.0	Site Reconnaissance					None
8.1	Asbestos-Containing Building Materials					None
8.2	Lead-Based Paint					None
8.3	Radon					None
8.4	Mold					None

TABLE OF CONTENTS

EXECUTIVE SUMMARY 5
Findings 6
Conclusions, Opinions, and Recommendations 7
1.0 INTRODUCTION 8
1.1 Scope of Work 8
1.2 Additional Services 8
1.3 Significant Assumptions 8
1.4 Limitations 9
1.5 Limiting Conditions/Deviations 10
1.6 Data Failure and Data Gaps 10
1.7 Reliance 11
2.0 SITE AND VICINITY DESCRIPTION 12
2.1 Site Location and Description 12
2.2 On-Site Utilities 12
2.3 Site and Vicinity Characteristics 12
2.4 Physical Setting 13
3.0 HISTORICAL REVIEW OF SITE AND VICINITY 14
3.1 Aerial Photographs 14
3.2 Sanborn Fire Insurance Maps 15
3.3 City Directories 15
3.4 Historical Topographic Maps 15
3.5 Chain of Title 15
4.0 REGULATORY AGENCY RECORDS REVIEW 16
4.1 Local Environmental Health Department and/or State Environmental Agency 16
4.2 Fire Department 16
4.3 Building Department 16
4.4 Planning Department 16
4.5 Assessor's Office 16
4.6 Other Agencies Searched 17
4.7 Oil and Gas Wells 17
4.8 Oil and Gas Pipelines 17
4.9 State Environmental Superliens 17
4.10 State Property Transfer Laws 17
5.0 REGULATORY DATABASE RECORDS REVIEW 18
5.1 Records Summary 18
5.2 Vapor Migration 19
6.0 INTERVIEWS AND USER PROVIDED INFORMATION 20
6.1 Interviews 20
6.2 User Provided Information 21
6.3 Previous Reports and Other Provided Documentation 22
6.4 Environmental Lien Search 22
7.0 SITE RECONNAISSANCE 23
7.1 Subject Property Reconnaissance Findings 23
7.2 Adjacent Property Reconnaissance Findings 23
8.0 NON-ASTM SERVICES 25
8.1 Asbestos-Containing Building Materials 25

8.2 Lead-Based Paint 25
8.3 Radon 25
8.4 Mold 25
9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS 26
10.0 REFERENCES 27

TABLE OF APPENDICES

APPENDIX A: FIGURES
APPENDIX B: PROPERTY PHOTOGRAPHS
APPENDIX C: REGULATORY DATABASE
APPENDIX D: HISTORICAL SOURCES
APPENDIX E: REGULATORY AGENCY RECORDS
APPENDIX F: OTHER SUPPORTING DOCUMENTATION
APPENDIX G: QUALIFICATIONS
APPENDIX H: LIST OF COMMONLY USED ABBREVIATIONS

EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained by Ponderosa Homes to conduct a Phase I ESA in conformance with AEI's contract and the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Mitchell Canyon Road, Clayton, Contra Costa County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

Pertinent subject property information is noted below:

PROPERTY INFORMATION	
Site Address(es)	Mitchell Canyon Road, Clayton, Contra Costa County, California 94517
Property ID (APN or Block/Lot)	121-090-011-2 and 121-090-016-1
Location	West side of Mitchell Canyon Road
Property Type	Vacant Land
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	8.65/Client provided
Number of Buildings	One ancillary shed
Building Construction Date(s)	N/A
Building Square Footage (SF)/Source	N/A/N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	N/A
Additional Improvements	N/A
On-site Occupant(s)	None identified
Current On-site Operations/Use	None identified - subject property is vacant land
Current Use of Hazardous Substances	None identified
REGULATORY INFORMATION	
Regulatory Database Listing(s)	None identified

A chronological summary of historical subject property information is as follows:

Date Range	Subject Property Description and Occupancy (Historical Addresses)	Source(s)
Prior to 1939	Unknown use/Data failure; refer to Section 1.6.1	Aerial photographs, Sanborn maps, agency records
1939-1958	Agricultural land	Aerial photographs
1963-Present	Vacant land	Aerial photographs

The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Residences (895 Mitchell Canyon Road and 896-910 Mitchell Canyon Lane)	None identified

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
East	Mitchell Canyon Road, followed by: Residences (917-925 Kenston Drive)	None identified
South	Residences (15-28 Herriman Court and 835 Mitchell Canyon Road) and vacant land	None identified
West	Residences (5679-5783 Lewis Way)	None identified

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

FINDINGS

Recognized Environmental Condition (REC) is defined by the ASTM Standard Practice E1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

- AEI did not identify evidence of RECs during the course of this assessment.

Controlled Recognized Environmental Condition (CREC) is defined by the ASTM Standard Practice E1527-13 as a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- AEI did not identify evidence of CRECs during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

- AEI did not identify evidence of HRECs during the course of this assessment.

Other Environmental Considerations (OEC) warrant discussion, but do not qualify as RECs as defined by the ASTM Standard Practice E1527-13. These include, but are not limited to, de minimis conditions and/or environmental considerations such as the presence of ACMs, LBP, radon, mold, and lead in drinking water, which can affect the liabilities and financial obligations of the client, the health and safety of site occupants, and the value and marketability of the subject property.

- Based on a review of aerial photographs, the subject property was historically used for agricultural purposes. There is potential that agricultural chemicals, such as pesticides, herbicides and fertilizers, were used on site, and that the subject property has been impacted by the use of such agricultural chemicals. AEI understands that the subject property is slated for residential redevelopment. According to Mr. Milan Sikela of the Clayton Planning Department, the City of Clayton does not have explicit soil sampling

requirements, but noted that projects may be subject to sampling requirements as part of the redevelopment process under the California Environmental Quality Act (CEQA). Consequently, AEI recommends the performance of on-site sampling to determine if the subject property has been significantly impacted in connection with the historical agricultural use for the protection of the construction workers and future occupants of the subject property.

CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) of Mitchell Canyon Road, Clayton, Contra Costa County, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

AEI did not identify evidence of RECs or CRECs in connection with the property except for those previously identified in the Findings section. AEI recommends the following:

- Subsurface investigation

1.0 INTRODUCTION

This report documents the methods and findings of the Phase I Environmental Site Assessment performed in conformance with AEI's contract and scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Mitchell Canyon Road, Clayton, Contra Costa County, California (Appendix A: Figures and Appendix B: Property Photographs).

1.1 SCOPE OF WORK

The purpose of the Phase I ESA is to assist the client in identifying potential RECs, in accordance with ASTM E1527-13, associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal, and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

1.2 ADDITIONAL SERVICES

Other Environmental Considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by ASTM E1527-13. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

1.3 SIGNIFICANT ASSUMPTIONS

The following assumptions are made by AEI in this report. AEI relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow, unless otherwise specified by on-site well data or well data from the subject property or nearby sites, is inferred from contour information depicted on the USGS topographic maps. AEI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.4 LIMITATIONS

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this assessment apply strictly to the environmental regulations and property conditions existing at the time the assessment was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the assessment.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

If requested by the client, these non-scope issues are discussed herein. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under CERCLA. ASTM Standard Practice E1527-13 and the United States EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C. § 9601(35)(B), referenced in the ASTM Standard Practice E1527-13.
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
3. 42 U.S.C. § 9601(40) and 42 U.S.C. § 9607(q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, current subject property use, and observations and conditions that existed on the date and time of the property reconnaissance.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

AEI's limited radon screening, if included, is intended to provide a preliminary screening to evaluate the potential presence of elevated radon concentrations at the site. The proposed scope is not intended to define the full extent of the presence of radon at the subject property. As such, the results should be used for lending purposes only. The recommendations and conclusions presented as a result of the limited preliminary radon screening apply strictly to the property conditions existing at the time the sampling was performed. The sample analytical results are only valid for the time, place, and condition of the site at the time of collection and AEI does not warrant that the results will be repeatable or are representative of past or future conditions.

1.5 Limiting Conditions/Deviations

The performance of this assessment was limited by the following:

- While additional assessments may have been conducted on the subject property, these documents must be provided for AEI's review in order for the information to be summarized/included in this report. Please refer to Section 6.3 for a summary of previous reports and other documentation provided to AEI during this assessment.
- The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.
- Due to the size of the subject property, AEI performed a reconnaissance of the property utilizing a field technique of traversing the site in an attempt to provide an overlapping field of view. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during AEI's field reconnaissance. Based on the nature of property use, this limitation is not expected to significantly alter the findings of this assessment.

1.6 Data Failure and Data Gaps

According to ASTM E1527-13, data gaps occur when the Environmental Professional is unable to obtain information required by the Standard, despite good faith efforts to gather such information. Pursuant to ASTM E1527-13, only significant data gaps, defined as those that affect the ability of the Environmental Professional to identify RECs, need to be documented.

Data failure is one type of data gap. According to ASTM E1527-13, data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E1527-13, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier, or periods of five years or greater.

1.6.1 DATA FAILURE

The following data failure was identified during the course of this assessment:

Data Failure	The earliest historical resource obtained during this assessment was an aerial photograph from 1939 indicating that the subject property was developed agriculturally. The lack of historical sources for the subject property dating back to first developed use represents historical data source failure. However, as it is assumed that the subject property would have been previously used for agricultural purposes, if not undeveloped, this data failure is not expected to significantly alter the findings of this assessment.
Information/Sources Consulted	City directories, Sanborn fire insurance maps, aerial photographs, agency records, previous reports, interviews

1.6.2 SIGNIFICANT DATA GAPS

AEI did not identify significant data gaps which affected our ability to identify RECs.

1.7 RELIANCE

All reports, both verbal and written, are for the benefit of Ponderosa Homes. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's contract and Terms and Conditions executed by Ponderosa Homes on July 10, 2019. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

2.0 SITE AND VICINITY DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

PROPERTY INFORMATION	
Site Address(es)	Mitchell Canyon Road, Clayton, Contra Costa County, California 94517
Property ID (APN or Block/Lot)	121-090-011-2 and 121-090-016-1
Location	West side of Mitchell Canyon Road
Property Type	Vacant Land
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	8.65/Client provided
Number of Buildings	One ancillary shed
Building Construction Date(s)	N/A
Building Square Footage (SF)/Source	N/A/N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	N/A
Additional Improvements	N/A
On-site Occupant(s)	None identified
Current On-site Operations/Use	None identified - subject property is vacant land
Current Use of Hazardous Substances	None identified
REGULATORY INFORMATION	
Regulatory Database Listing(s)	None identified

2.2 ON-SITE UTILITIES

Utility	Source/System Information
Heating System	PG&E
Cooling System	PG&E
Potable Water	Contra Costa Water District
Sewage Disposal/Treatment	City of Clayton

Utility source/system information listed in the table above is provided by online research, unless otherwise noted above. The above information describes the utility information that serves the surrounding area.

2.3 SITE AND VICINITY CHARACTERISTICS

The subject property is located in a residential area of Clayton, California. The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Residences (895 Mitchell Canyon Road and 896-910 Mitchell Canyon Lane)	None identified

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
East	Mitchell Canyon Road, followed by: Residences (917-925 Kenston Drive)	None identified
South	Residences (15-28 Herriman Court and 835 Mitchell Canyon Road) and vacant land	None identified
West	Residences (5679-5783 Lewis Way)	None identified

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

2.4 PHYSICAL SETTING

Geologic Unit: Description/Source	Qa: Surficial sediments, alluvial gravel, san and clay of valley areas, age late Holoocene/USGS and United States Department of the Interior
Soil Series: Description/Source	PaC: Perkins gravelly loam, gravelly loam to gravelly clay loam; and GcE: Gilroy clay loam, clay loam to very gravelly loam to bedrock/USDA Soil Survey
Groundwater Flow Direction/Source	Northeast/Topographic map interpretation
Estimated Depth to Groundwater/ Source	Greater than 50 feet bgs/Groundwater data for the nearby site at 2484 Pine Hollow Road, obtained from GeoTracker
Surface waters on the subject property or adjacent sites	None
Additional notes	None

Note: Groundwater flow direction can be influenced locally and regionally by the presence of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells. Depth and gradient of the water table can change seasonally in response to variation in precipitation and recharge, and over time, in response to urban development such as storm water controls, impervious surfaces, pumping wells, cleanup activities, dewatering, seawater intrusion barrier projects near the coast, and other factors.

3.0 HISTORICAL REVIEW OF SITE AND VICINITY

Reasonably ascertainable standard historical sources as outlined in ASTM Standard E1527-13 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historical city directories, Sanborn fire insurance maps, and agency records, is as follows:

Date Range	Subject Property Description and Occupancy (Historical Addresses)	Source(s)
Prior to 1939	Unknown use/Data failure; refer to Section 1.6.1	Aerial photographs, Sanborn maps, agency records
1939-1958	Agricultural land	Aerial photographs
1963-Present	Vacant land	Aerial photographs

Based on a review of aerial photographs, the subject property was historically used for agricultural purposes. There is potential that agricultural chemicals, such as pesticides, herbicides and fertilizers, were used on site, and that the subject property has been impacted by the use of such agricultural chemicals. AEI understands that the subject property is slated for residential redevelopment. According to Mr. Milan Sikela of the Clayton Planning Department, the City of Clayton does not have explicit soil sampling requirements, but noted that projects may be subject to sampling requirements as part of the redevelopment process under the California Environmental Quality Act (CEQA). Consequently, AEI recommends the performance of on-site sampling to determine if the subject property has been significantly impacted in connection with the historical agricultural use for the protection of the construction workers and future occupants of the subject property.

If available, copies of historical sources are provided in the report appendices.

3.1 AERIAL PHOTOGRAPHS

AEI reviewed aerial photographs of the subject property and surrounding area. A search was made of the EDR collection of aerial photographs. Aerial photographs were reviewed for the following years:

Year(s)	Subject Property Description	Adjacent Site Descriptions
1939, 1946, 1949, 1950, 1958	Agricultural land including orchards	NORTH: Agricultural land EAST: A road, followed by agricultural land SOUTH: Agricultural land WEST: Agricultural land
1963	Vacant land with remnants of orchards	NORTH: Vacant land EAST: A road, followed by residences SOUTH: Vacant land WEST: Vacant land

Year(s)	Subject Property Description	Adjacent Site Descriptions
1966	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: Developed with the existing residences WEST: No significant changes
1979, 1982	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: Developed with the existing residences
1993, 1998, 2006, 2009, 2012, 2016	Vacant land with a small ancillary structure in the northwestern portion of the subject property	NORTH: Developed with the existing residences EAST: No significant changes SOUTH: No significant changes WEST: No significant changes

Based on a review of aerial photographs, the subject property appears to have been developed with agricultural land from at least 1939 to 1958, please refer to Section 3.0 for additional information.

3.2 Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the EDR collection of Sanborn Fire Insurance maps.

Sanborn map coverage was not available for the subject property.

3.3 City Directories

Since the subject property has never been developed, no physical address has been provided to or identified by AEI during the course of this assessment. Based on the lack of physical address, a search of city directories for the subject property was not feasible.

3.4 Historical Topographic Maps

Based on the quality of information obtained from other sources, historical topographic maps were not reviewed as a part of this assessment.

3.5 Chain of Title

Based on the quality of information obtained from other sources, a chain of title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous substance use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to AULs, defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1 LOCAL ENVIRONMENTAL HEALTH DEPARTMENT AND/OR STATE ENVIRONMENTAL AGENCY

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Hazardous Materials Programs (CCCHMP)	July 17, 2019	Email	Ms. Alex McMullen	No records on file

4.2 FIRE DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Fire Protection District (CCCFPD)	July 17, 2019	Email	Ms. Cindy McGrath	No records on file

4.3 BUILDING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Clayton Building Department (CBD)	July 31, 2019	Telephone	Staff	No records on file

4.4 PLANNING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Clayton Planning Department (CPD)	July 17, 2019	Telephone	Mr. Milan Sikela	No evidence indicating the existence of AULs on file for the subject property

4.5 ASSESSOR'S OFFICE

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Assessor's Office	July 17, 2019	Website	N/A	Information obtained is discussed below

Records Summary

APN	121-090-011-2 and 121-090-016-1
Acreage	8.65 acres
Construction Date	N/A

Building Square Footage	N/A square feet
Current Owner	Fred Clayton and Karen Isobe Trust

4.6 Other Agencies Searched

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
CA State Water Resources Control Board (SWRCB) GeoTracker	July 17, 2019	Website	N/A	No records on file
CA Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System (HWTS)	July 17, 2019	Website	N/A	No records on file
CA DTSC EnviroStor	July 17, 2019	Website	N/A	No records on file
Bay Area Air Quality Management District (BAAQMD)	July 17, 2019	Website	Ms. Rochelle Reed	No records on file

No other agencies were contacted during the course of this assessment.

4.7 Oil and Gas Wells

Agency	Date Referenced	Resource	Oil or gas wells located within 500 feet of the subject property
State of California Department of Conservation, Division of Oil, Gas & Geothermal Resources (CA DOGGR)	July 17, 2019	CA DOGGR Map	No

4.8 Oil and Gas Pipelines

Agency	Date Referenced	Resource	Pipelines located within 500 feet of the subject property
National Pipeline Mapping System (NPMS)	July 17, 2019	NPMS Public Map Viewer	No

4.9 State Environmental Superliens

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state environmental superliens.

4.10 State Property Transfer Laws

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state property transfer laws.

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted EDR to conduct a search of publicly available information from federal, state, tribal, and local databases containing known and suspected sites of environmental contamination and sites of potential environmental significance. Data gathered during the current regulatory database search is compiled by EDR into one regulatory database report. Location information for listed sites is designated using geocoded information provided by federal, state, or local agencies and commonly used mapping databases with the exception of "Orphan" sites. Due to poor or inadequate address information, Orphan sites are identified but not geocoded/mapped by EDR, rather, information is provided based upon vicinity zip codes, city name, and state. The number of listed sites identified within the approximate minimum search distance from the federal and state environmental records database listings specified in ASTM Standard E1527-13 is summarized in Section 5.1, along with the total number of Orphan sites. A copy of the regulatory database report, which includes detailed descriptions of the databases noted below, is included in Appendix C of this report.

In determining if a listed site is a potential environmental concern to the subject property, AEI generally applies the following criteria to classify the site as lower potential environmental concern: 1) the site only holds an operating permit (which does not imply a release), 2) the site's distance from, and/or topographic position relative to, the subject property, and/or 3) the site has recently been granted "No Further Action" by the appropriate regulatory agency.

Regulatory database listings associated with the subject property, adjacent site(s) and/or nearby sites of concern that were determined to warrant additional discussion are identified and further discussed in Section 5.1.

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
NPL	1.0	0			
DELISTED NPL	0.5	0			
SEMS/CERCLIS	0.5	0			
SEMS-ARCHIVE/CERCLIS NFRAP	0.5	0			
RCRA CORRACTS	1.0	0			
RCRA-TSDF	0.5	0			
RCRA LQG, SQG, CESQGs, NLR	SP/ADJ	0			
US ENG CONTROLS	SP	0			
US INST CONTROLS	SP	0			
ERNS	SP	0			
STATE/TRIBAL HWS	1.0	0			
STATE/TRIBAL SWLF	0.5	0			
STATE/TRIBAL REGISTERED STORAGE TANKS	SP/ADJ	0			
STATE/TRIBAL LUST	0.5	2			

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
STATE/TRIBAL EC and IC	SP	0			
STATE/TRIBAL VCP	0.5	0			
STATE/TRIBAL BROWNFIELD	0.5	0			
ORPHAN	N/A	0			
ADDITIONAL ENVIRONMENTAL RECORD SOURCES	SP/ADJ	0			

5.2 VAPOR MIGRATION

AEI reviewed reasonably ascertainable information for the subject and nearby properties, including a regulatory database, files for nearby release sites, and/or historical documentation, to determine if potential vapor-phase migration concerns may be present which could impact the subject property.

Based on a review of available resources as documented in this report, AEI did not identify significant on-site concerns and/or regulated listings from nearby sites which suggest that a vapor-phase migration concern currently exists at the subject property.

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to ASTM E1527-13, the following interviews were performed during this assessment in order to obtain information indicating RECs in connection with the subject property.

6.1.1 OWNER AND KEY SITE MANAGER

Relation to Property	Name	Date Interviewed	Method of Contact	Year First Associated w/ Property	Notes
Owner/Owner Representative	Fred Clayton and Karen Isobe Trust	Aaugust 5, 2019	Email	Circa 1970	Interviewed; see Interview Summary table below
Key Site Manager	Mr. Bruce Bauer	July 31, 2019	In Person	Unknown	Interviewed; see Interview Summary table below

Interview Summary

Question	Owner (Representative) Response/ Comment	Key Site Manager Response/ Comment
Do you have any knowledge of USTs, clarifiers or oil/water separators, sumps, or other subsurface features?	No	No
Do you have any knowledge of previous environmental investigations conducted on site?	No	No
Do you have any knowledge of current or past industrial operations and/or other operations which would involve the use of hazardous substances and/or petroleum products?	No	No
Are you aware of any known plans for site redevelopment or change in site use?	No	No
Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	No	No
Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	No	No
Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	No	No
Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?	No	No
Additional information provided:	N/A	N/A

6.1.2 PAST OWNERS, OPERATORS, AND OCCUPANTS

AEI did not attempt to interview past owners, operators, and occupants of the subject property because information from these sources would likely be duplicative of information already

obtained from other sources.

6.1.3 Interview with Others

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this report.

6.2 User Provided Information

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to ASTM E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the Environmental Professional. The responsibility for qualifying for LLPs by conducting the inquiries ultimately rests with the User, and providing the information to the Environmental Professional would be prudent if such information is available.

The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.

Question	Response/ Comment
1. Environmental liens that are filed or recorded against the property (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	Information not provided
2. Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)). Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	Information not provided
3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	Information not provided
4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	Information not provided

Question	Response/ Comment
5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example: (a) Do you know the past uses of the property? (b) Do you know of specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemical releases that have taken place at the property? (d) Do you know of any environmental cleanups that have taken place at the property?	Information not provided
6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	Information not provided

6.3 Previous Reports and Other Provided Documentation

No prior reports or other relevant documentation in association with the subject property was made available to AEI during the course of this assessment.

6.4 Environmental Lien Search

In accordance with our approved scope of services, an environmental lien search was not performed as part of this assessment.

7.0 SITE RECONNAISSANCE

Site Reconnaissance Date	July 31, 2019
AEI Site Assessor(s)	Lea Palumbo
Property Escort(s)/ Relationship(s) to Property	N/A
Units/Areas Observed	Representative portions of the subject property
Area(s) not accessed and reason(s)	The interior of the ancillary shed on site Refer to Section 1.5 for discussion of limiting condition(s).
Other Physical Constraints	None

Reconnaissance Findings Summary

Feature	Observed on Subject Property (see Section 7.1)	Observed on Adjacent Property (see Section 7.2)
Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use		
Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)		
Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use		
Unidentified Substance Containers		
Electrical or Mechanical Equipment Likely to Contain Fluids		✔
Interior Stains or Corrosion		
Strong, Pungent, or Noxious Odors		
Pools of Liquid		
Drains, Sumps, and Clarifiers		✔
Pits, Ponds, and Lagoons		
Stained Soil or Pavement		
Stressed Vegetation		
Solid Waste Disposal or Evidence of Fill Materials		
Waste Water Discharges		
Wells		
Septic Systems		
Biomedical Wastes		
Other		

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI did not observe any of the items listed in the above Reconnaissance Findings Summary table.

7.2 ADJACENT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

ELECTRICAL OR MECHANICAL EQUIPMENT LIKELY TO CONTAIN FLUIDS

Toxic PCBs were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR, Part 761, there are three categories for classifying such equipment: <50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and >500 ppm is considered "PCB-Containing." Pursuant to 15 U.S.C. 2605(e)(2)(A), the manufacture, process, or distribution in commerce or use of any polychlorinated biphenyl in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Transformers

The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

Several pole-mounted transformers were observed on the adjacent sites during the site reconnaissance. No spills, staining, or leaks were observed on or around the transformers. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern.

DRAINS, SUMPS, AND CLARIFIERS

Several storm drains were observed in the parking areas of the adjacent properties and adjacent roadways. AEI did not observe evidence of hazardous substances or petroleum products in the vicinity of the drains. Based on the use of the drains solely for storm water runoff, the presence of the drains is not expected to represent a significant environmental concern.

8.0 NON-ASTM SERVICES

8.1 ASBESTOS-CONTAINING BUILDING MATERIALS

The subject property is currently vacant land or lacks structures. Consequently, no building components containing suspect asbestos containing materials were identified during the site inspection.

8.2 LEAD-BASED PAINT

The subject property is currently vacant land or lacks structures. Consequently, AEI did not observe building components likely to contain suspect LBP during the site reconnaissance.

8.3 RADON

Radon is a naturally-occurring, odorless, and invisible gas. Natural radon levels vary and are closely related to geologic formations. Radon may enter buildings through basement sumps or other openings.

Radon sampling was not requested as part of this assessment. According to the California Department of Health Services Radon Database, 6 tests were conducted for radon levels in the subject property zip code (94517) in 2016. All of these tests indicated that radon levels were below the action level of 4.0 pCi/L set forth by the US EPA. Therefore, radon is not expected to represent a significant environmental concern.

8.4 MOLD

The subject property is currently vacant land or lacks structures. Consequently, mold was not addressed as part of this assessment.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



Lea Palumbo
Project Manager

Reviewed By:



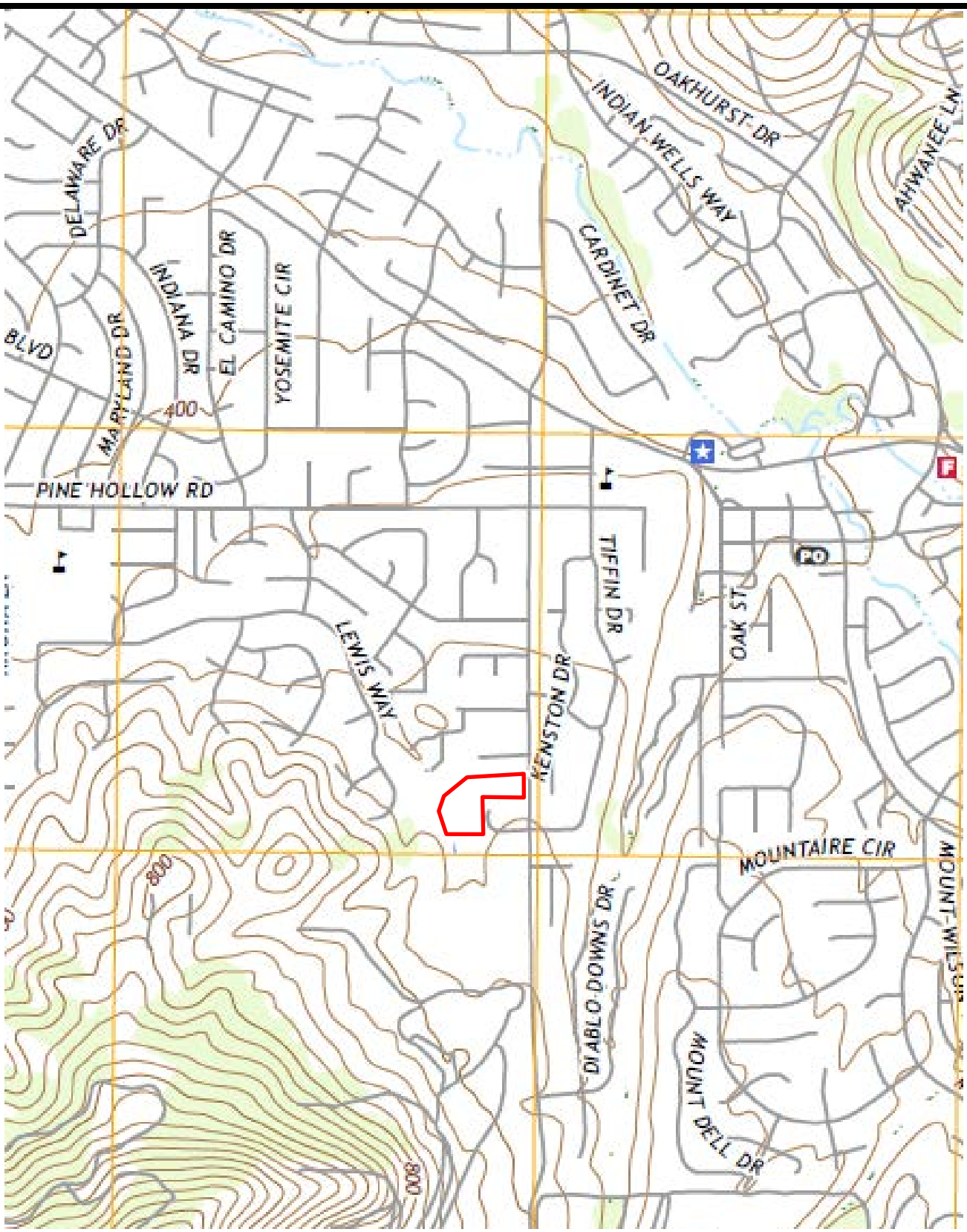
Richard D. Fehler
Senior Author

10.0 REFERENCES

Item	Date(s)	Source
Soils Information	Accessed July 2019	USDA Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Topographic Map	2018	USGS, Clayton
Depth to Groundwater Information	March 26, 1997	Groundwater data for the nearby site at 2484 Pine Hollow Road, obtained from GeoTracker
Aerial Photographs	1939-2016 (non-inclusive)	EDR
Sanborn Map Report/Search	July 17, 2019	EDR
City Directories	July 17, 2019	AEI's private collection of Haines and Company Criss-Cross Directories
Environmental Health Department	July 17, 2019	Contra Costa County Hazardous Materials Programs
Fire Department	July 17, 2019	Contra Costa County Fire Protection District
Building Department	July 31, 2019	Clayton Building Department
Planning Department	July 17, 2019	Clayton Planning Department
Assessor's Information and Parcel Map	July 17, 2019	Contra Costa County Assessor's Office
Other Agencies Searched	July 17, 2019	SWRCB GeoTracker, DTSC HWTS, and DTSC EnviroStor databases, BAAQMD
Oil and Gas Wells	July 17, 2019	State of California Department of Conservation, Division of Oil, Gas & Geothermal Resources
Oil and Gas Pipelines	July 17, 2019	NPMS Public Map Viewer https://www.npms.phmsa.dot.gov/PublicViewer/composite.jsf
Regulatory Database Report	July 17, 2019	EDR
Interview with Key Site Manager	July 31, 2019	Mr. Bruce Bauer
Radon Zone Information	2016	California DPH

APPENDIX A

FIGURES



Legend
Approximate Property Boundary
Source: USGS Topographic Map *Clayton, California* (2018)

N

Figure 1: TOPOGRAPHIC MAP

Mitchell Canyon Road, Clayton, California 94517
Project Number: 408841

AEI Consultants



Legend
Estimated Groundwater Flow Direction
Approximate Property Boundary
Listed in Environmental Database Report ☐

N

Figure 2: SITE MAP

Mitchell Canyon Road, Clayton, California 94517
Project Number: 408841

AEI Consultants

APPENDIX B

PROPERTY PHOTOGRAPHS



1. West-facing view of subject property from Mitchell Canyon Road



2. View of north portion of subject property



3. View of northeast portion of subject property



4. View of subject property and south adjacent residence



5. East-facing view of subject property



6. View of subject property and west adjacent residences



7. View of shed on northwest portion of subject property



8. View of shed on northwest portion of subject property



9. View of water pump on subject property



10. View of mowers on subject property



11. View of north adjacent residence



12. View of east adjacent residences

APPENDIX C

REGULATORY DATABASE

408841
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5720065.2s
July 17, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	70
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-11
Physical Setting Source Map Findings	A-13
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MITCHELL CANYON ROAD
CLAYTON, CA 94517

COORDINATES

Latitude (North):	37.9355150 - 37° 56' 7.85''
Longitude (West):	121.9432540 - 121° 56' 35.71''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592864.2
UTM Y (Meters):	4198981.5
Elevation:	506 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
MITCHELL CANYON ROAD
CLAYTON, CA 94517

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	ZACK & KIKI TURNIN	1205 AMARANTH DR	RCRA NonGen / NLR	Lower	1057, 0.200, NW
2	MICHAEL SIBBITT	890 COACHMAN PLACE	RCRA NonGen / NLR	Lower	1150, 0.218, SE
3	CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	MINES	Higher	1242, 0.235, SSW
4	CEMEX CONSTRUCTION M	515 MITCHELL CANYON	LUST, AST, CERS HAZ WASTE, SWEEPS UST, CERS TANKS,	Higher	1404, 0.266, SSW
5	KAISER SAND & GRAVEL	2484 PINE HOLLOW RD	LUST, HIST CORTESE, CERS	Lower	2433, 0.461, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR ---------- EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
UST ---------- Active UST Facilities
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE	CERS HAZ WASTE
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
CONTRA COSTA CO. SITE LIST	Site List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CONSTRUCTION M	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***4***	***11***

Database: LUST, Date of Government Version: 12/10/2018
Database: LUST REG 2, Date of Government Version: 09/30/2004
Status: Completed - Case Closed
Facility Id: 07-0475
Facility Status: Case Closed
Global Id: T0601300439
date9: 1/15/1997

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***5***	***67***

Database: LUST, Date of Government Version: 12/10/2018
Database: LUST REG 2, Date of Government Version: 09/30/2004
Status: Completed - Case Closed
Facility Id: 07-0595

Facility Status: Case Closed
Global Id: T0601300548
date9: 3/26/1997

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ZACK & KIKI TURNIN EPA ID:: CAC002994440	1205 AMARANTH DR	NW 1/8 - 1/4 (0.200 mi.)	1	8
MICHAEL SIBBITT EPA ID:: CAC002967480	890 COACHMAN PLACE	SE 1/8 - 1/4 (0.218 mi.)	2	9

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CONSTRUCTION M Reg Id: 07-0475	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***4***	***11***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL Reg Id: 07-0595	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***5***	***67***

MINES: A listing of mine site locations from the Office of Mine Reclamation.

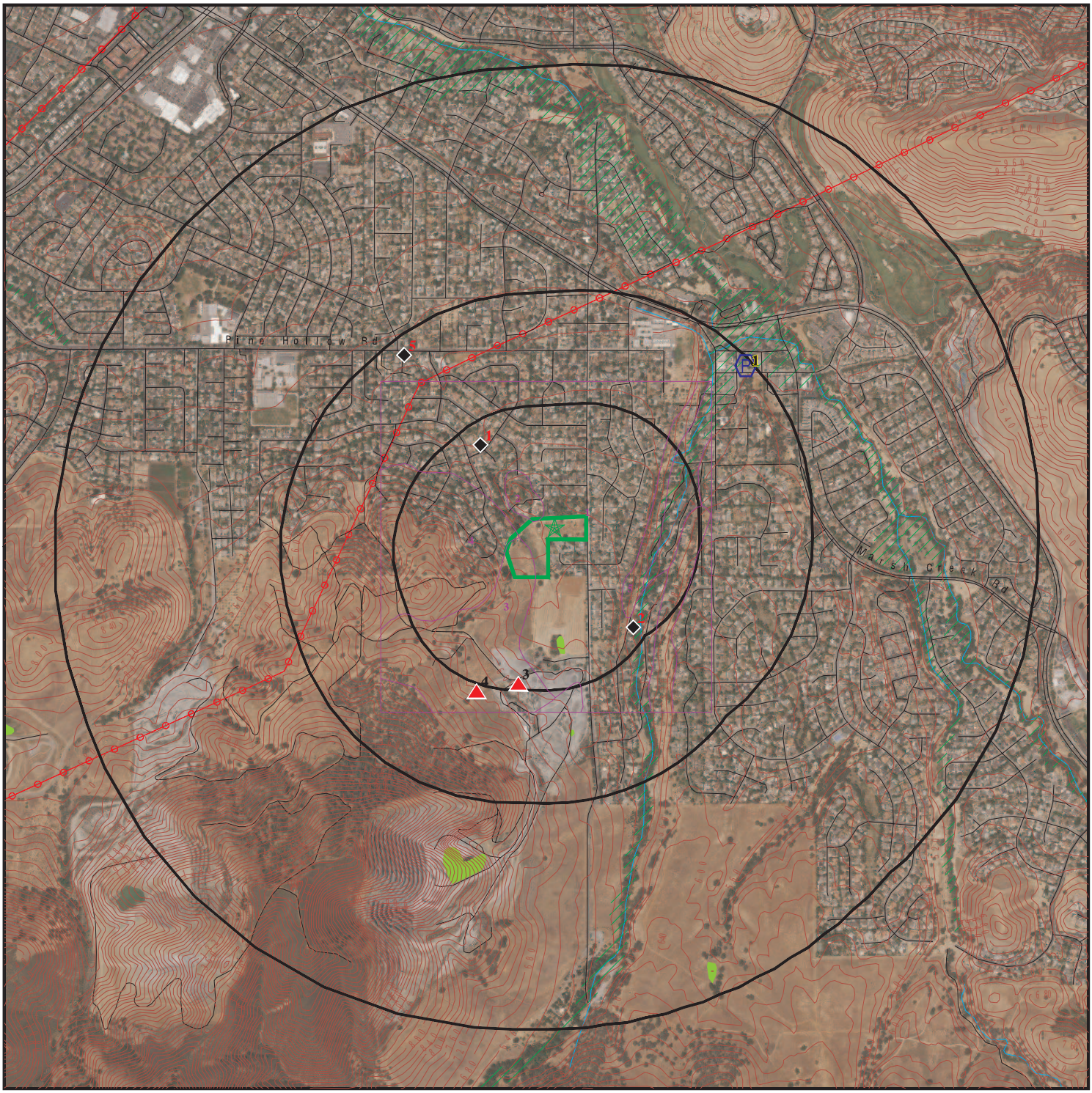
A review of the MINES list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	SSW 1/8 - 1/4 (0.235 mi.)	3	10

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5720065.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

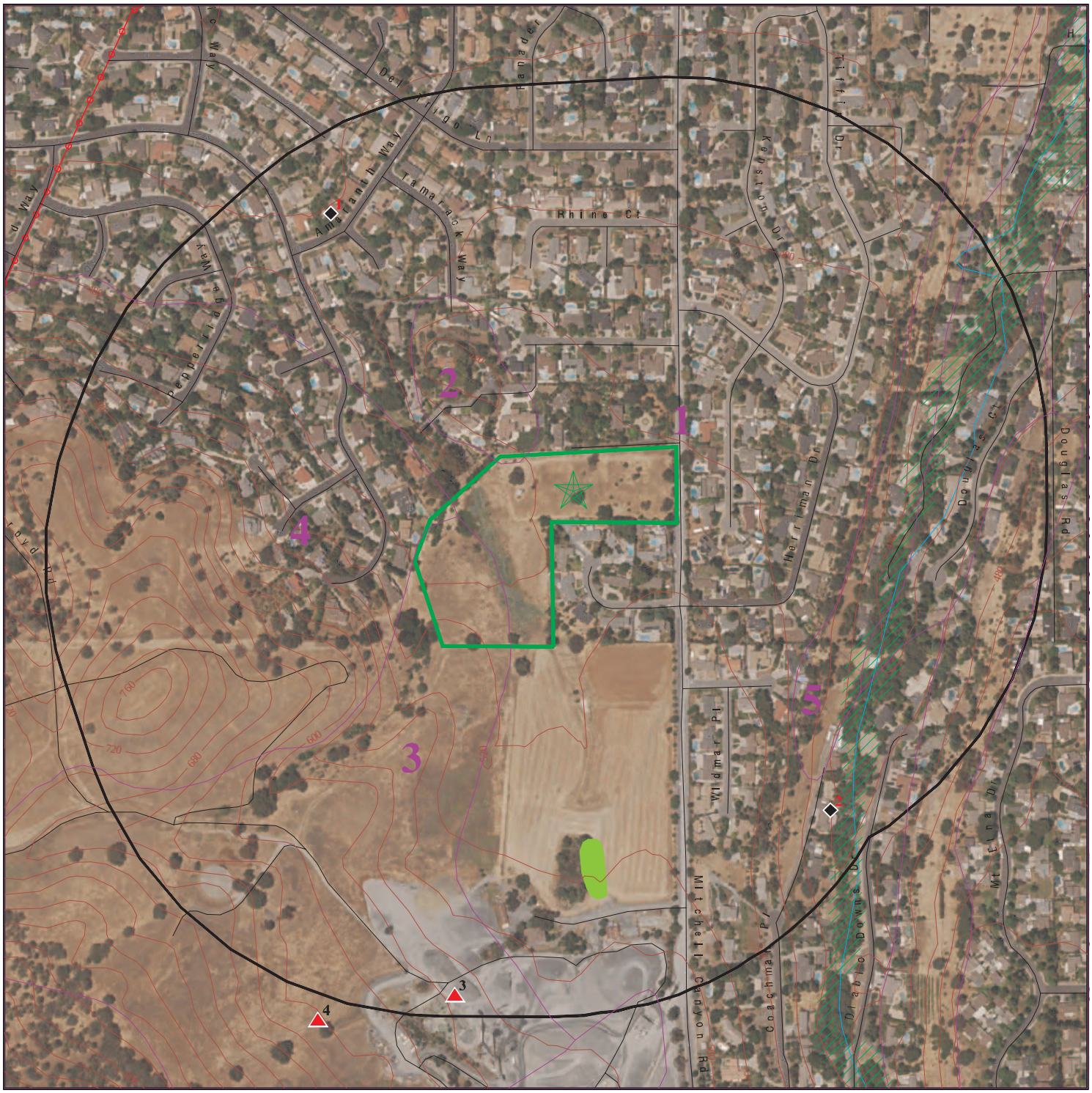
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 408841	CLIENT: AEI Consultants
ADDRESS: Mitchell Canyon Road Clayton CA 94517	CONTACT: Tony Chilese
LAT/LONG: 37.935515 / 121.943254	INQUIRY #: 5720065.2s DATE: July 17, 2019 7:58 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5720065.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 408841	CLIENT: AEI Consultants
ADDRESS: Mitchell Canyon Road Clayton CA 94517	CONTACT: Tony Chilese INQUIRY #: 5720065.2s
LAT/LONG: 37.935515 / 121.943254	DATE: July 17, 2019 8:02 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	1	NR	NR	NR	1
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
CONTRA COSTA CO. SITE LIST	0.250		0	0	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	3	4	0	0	7

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NW
1/8-1/4
0.200 mi.
1057 ft.

ZACK & KIKI TURNIN
1205 AMARANTH DR
CONCORD, CA 94521

RCRA NonGen / NLR

1024774518
CAC002994440

Relative:
Lower

Actual:
463 ft.

RCRA NonGen / NLR:

Date form received by agency:	12/27/2018
Facility name:	ZACK & KIKI TURNIN
Facility address:	1205 AMARANTH DR CONCORD, CA 94521
EPA ID:	CAC002994440
Contact:	ZACK & KIKI TURNIN
Contact address:	1205 AMARANTH DR CONCORD, CA 94521
Contact country:	Not reported
Contact telephone:	925-914-1336
Contact email:	ELIZABETH.GARCIA@SYNERGYCOMPANIES.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

ZACK & KIKI TURNIN (Continued) **1024774518**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

2 **MICHAEL SIBBITT** **RCRA NonGen / NLR** **1024747703**
SE **890 COACHMAN PLACE** **CAC002967480**
1/8-1/4 **CLAYTON, CA 94517**
0.218 mi.
1150 ft.

Relative:
Lower

Actual:
462 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/20/2018
Facility name:	MICHAEL SIBBITT
Facility address:	890 COACHMAN PLACE CLAYTON, CA 94517
EPA ID:	CAC002967480
Contact:	MICHAEL SIBBITT
Contact address:	890 COACHMAN PLACE CLAYTON, CA 94517
Contact country:	Not reported
Contact telephone:	925-323-8667
Contact email:	NICOLE@ENV-REM.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MICHAEL SIBBITT
Owner/operator address:	890 COACHMAN PLACE CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	925-323-8667
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MICHAEL SIBBITT
Owner/operator address:	890 COACHMAN PLACE CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	925-323-8667
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

MICHAEL SIBBITT (Continued) **1024747703**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

3 **CEMEX CLAYTON QUARRY** **MINES** **S117661278**
SSW **515 MITCHELL CANYON ROAD** **N/A**
1/8-1/4 **, CA**
0.235 mi.
1242 ft.

Relative:
Higher

Actual:
595 ft.

MINES:

Name:	CEMEX CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CA
Latitude:	37.930556
Longitude:	-121.944722
Lead Agency identification code:	7
Lead Agency name:	County of Contra Costa
Year of the operator supplied annual report:	2017
Type of report submitted by operator:	2
Number of acres disturbed by the mine:	130
Status of mining operation:	ACTIVE
Status of mine reclamation:	RECLAMATION IN PROGRESS
Mine operator:	CEMEX CONSTRUCTION MATERIALS PACIFIC
Operator Address:	1764 SKYWAY
Operator City, State, Zip:	CHICO, CA 95928
Operator County:	Not reported
Mine owner:	CEMEX
Owner Address:	5180 GOLDEN FOOTHILL PARKWAY, SUITE 220
Owner City, State, Zip:	EL DORADO HILLS, CA 95762
Owner County:	Not reported
Reclamation plan identification number:	Not reported
Primary product produced by the mine:	SAND AND GRAVEL
Other products produced by the mine:	Not reported
Type of mining utilized by mine:	PLANT OR MILL,QUARRY
Conditional use permit identification number:	LUP2054-81
Number of acres permitted for mining disturbance:	437
Total amount of funds posted by the mine for reclamation:	4730408
Financial Assurance Cost Estimate for reclamation:	4730408

4
SSW
1/4-1/2
0.266 mi.
1404 ft.

Relative:
Higher

Actual:
643 ft.

CEMEX CONSTRUCTION MATERIALS P
515 MITCHELL CANYON RD
CLAYTON, CA 94517

LUST **S105023307**
AST **N/A**
CERS HAZ WASTE
SWEEPS UST
CERS TANKS
EMI
HIST CORTESE
NPDES
CONTRA COSTA CO. SITE LIST
CIWQS
CERS

LUST:

Name:	RMC LONESTAR
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300439
Global Id:	T0601300439
Latitude:	37.932159
Longitude:	-121.940987
Status:	Completed - Case Closed
Status Date:	01/15/1997
Case Worker:	KEB
RB Case Number:	07-0475
Local Agency:	CONTRA COSTA COUNTY
File Location:	Not reported
Local Case Number:	11077
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0601300439
Contact Type:	Regional Board Caseworker
Contact Name:	KEVIN BROWN
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	kebrown@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0601300439
Contact Type:	Local Agency Caseworker
Contact Name:	SUE LOYD
Organization Name:	CONTRA COSTA COUNTY
Address:	4333 PACHECO BLVD.
City:	MARTINEZ
Email:	sloyd@hsd.co.contra-costa.ca.us
Phone Number:	Not reported

LUST:

Global Id:	T0601300439
Action Type:	Other
Date:	06/27/1990
Action:	Leak Discovery

Global Id: T0601300439

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Action Type: Other
Date: 06/27/1990
Action: Leak Stopped

Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Reported

Global Id: T0601300439
Action Type: ENFORCEMENT
Date: 01/14/1996
Action: 13267 Requirement

LUST:
Global Id: T0601300439
Status: Completed - Case Closed
Status Date: 01/15/1997

Global Id: T0601300439
Status: Open - Case Begin Date
Status Date: 06/27/1990

Global Id: T0601300439
Status: Open - Site Assessment
Status Date: 05/10/1994

LUST REG 2:
Region: 2
Facility Id: 07-0475
Facility Status: Case Closed
Case Number: 11077
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 5/10/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AST:
Name: CEMEX CONSTRUCTION MATERIALS PACIFIC LLC
Address: 515 MITCHELL CANYON RD
City/Zip: CLAYTON,
Certified Unified Program Agencies: Contra Costa
Owner: Not reported
Total Gallons: 11,500
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City/Zip:	CLAYTON,94517
Certified Unified Program Agencies:	Not reported
Owner:	CEMEX Construction Materials Pacific, LLC
Total Gallons:	Not reported
CERSID:	10005676
Facility ID:	07-000-711077
Business Name:	CEMEX Construction Materials Pacific, LLC
Phone:	925-672-4900
Fax:	925-672-1845
Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Mailing Address City:	El Dorado Hills
Mailing Address State:	CA
Mailing Address Zip Code:	95762
Operator Name:	CEMEX Construction Materials Pacific, LLC
Operator Phone:	925-672-4900
Owner Phone:	916-941-2800
Owner Mail Address:	5180 Golden Foothill Parkway, Suite 200
Owner State:	CA
Owner Zip Code:	95762
Owner Country:	United States
Property Owner Name:	CEMEX Construction Materials Pacific, LLC
Property Owner Phone:	916-941-2800
Property Owner Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Property Owner City:	El Dorado Hills
Property Owner Stat :	CA
Property Owner Zip Code:	95762
Property Owner Country:	United States
EPAID:	CAL000317868

CERS HAZ WASTE:

Site ID:	103985
CERS ID:	10005676
CERS Description:	Hazardous Waste Generator

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-05-2015
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 02/05/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Program:	HW
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	02-05-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800

Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

SWEEPS UST:

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	3

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000003
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

CERS TANKS:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	10005676
CERS Description:	Aboveground Petroleum Storage

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-05-2015
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 02/05/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-05-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985
Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200

Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800

Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Zip: Not reported
Affiliation Phone: (925) 672-4900

EMI:

Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 1999
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1442
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 17
Part. Matter 10 Micrometers and Smllr Tons/Yr: 9

Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2000
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1442
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 17
Part. Matter 10 Micrometers and Smllr Tons/Yr: 9

Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2001
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1442
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2002
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2003
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2004
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.09
Reactive Organic Gases Tons/Yr:	0.0794526
Carbon Monoxide Emissions Tons/Yr:	0.176
NOX - Oxides of Nitrogen Tons/Yr:	0.807
SOX - Oxides of Sulphur Tons/Yr:	0.013
Particulate Matter Tons/Yr:	22.963
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11.3425397

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2005
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.028
Reactive Organic Gases Tons/Yr:	.0275772
Carbon Monoxide Emissions Tons/Yr:	.005
NOX - Oxides of Nitrogen Tons/Yr:	.021
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	26.619
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.1166714

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2006
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2007
County Code:	7
Air Basin:	SF

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2008
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.083
Reactive Organic Gases Tons/Yr:	.0735957
Carbon Monoxide Emissions Tons/Yr:	.153
NOX - Oxides of Nitrogen Tons/Yr:	.704
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	42.965
Part. Matter 10 Micrometers and Smllr Tons/Yr:	20.9233914

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2009
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.2999999999999995E-2
Reactive Organic Gases Tons/Yr:	6.5228700000000001E-2
Carbon Monoxide Emissions Tons/Yr:	0.14299999999999999
NOX - Oxides of Nitrogen Tons/Yr:	0.65700000000000003
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22.151155737704901
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.9822554

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Year:	2010
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.5000000000000002E-2
Reactive Organic Gases Tons/Yr:	0.0585351
Carbon Monoxide Emissions Tons/Yr:	0.11700000000000001
NOX - Oxides of Nitrogen Tons/Yr:	0.54000000000000004
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	36.822959016393398
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.458028899999999

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2011
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2012
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	20.570060313
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.435

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2013
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.026
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	21.046
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.523

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2014
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.02634999
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18.464724282
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.232362244

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2015
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.01834999
Reactive Organic Gases Tons/Yr:	0.01835
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Particulate Matter Tons/Yr: 16.365857189
Part. Matter 10 Micrometers and Smllr Tons/Yr: 8.182928511

Name: CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2016
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1422
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.018349992
Reactive Organic Gases Tons/Yr: 0.018349992
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 15.49322988
Part. Matter 10 Micrometers and Smllr Tons/Yr: 7.746615023

HIST CORTESE:
edr_fname: RMC LONESTAR
edr_fadd1: 515 MITCHELL CNYN
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0475

NPDES:
Name: CLAYTON QUARRY
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 181849
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 07I009447
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 11/23/1992
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 2365 Iron Point Road Suite 120
Discharge Name: CEMEX
Discharge City: Folsom
Discharge State: California
Discharge Zip: 95630
Status: Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active
Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

Name:	CLAYTON QUARRY
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 07I009447

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	11/23/1992
Operator Name:	CEMEX
Operator Address:	2365 Iron Point Road Suite 120
Operator City:	Folsom
Operator State:	California
Operator Zip:	95630

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active
Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX
Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

CONTRA COSTA CO. SITE LIST:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	UNDERGROUND STORAGE TANK SITE
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	APSA: 10K - <100K GALLONS
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	711077

CIWQS:

Name:	CLAYTON QUARRY
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Agency:	CEMEX
Agency Address:	2365 Iron Point Road Suite 120, Folsom, CA 95630
Place/Project Type:	Industrial - Construction Sand and Gravel
SIC/NAICS:	Multiple
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 07I009447
NPDES Number:	CAS000001

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Adoption Date:	Not reported
Effective Date:	11/23/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	2
Latitude:	37.9335
Longitude:	-121.94191

CERS:

Name:	CEMEX - CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CLAYTON, CA 94517-1529
Site ID:	458437
CERS ID:	110005972956
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Bruce Eppler
Entity Title:	Not reported
Affiliation Address:	5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City:	ELDORADOHILLS
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	GORDON BROWN
Entity Title:	OPERATIONS MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	RAMON NEILSON
Entity Title:	PLANT MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	ROBERT ALDENHUYSEN
Entity Title:	ENVIRONMENTAL CONTACT
Affiliation Address:	POBOX 697
Affiliation City:	PLEASANTON

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: CEMEX CONSTRCTN MATL PACIFIC LLC
Entity Title: OPERATOR
Affiliation Address: POBOX 697
Affiliation City: PLEASANTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: LOUIS B SCHIPPER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: CEMEX CONSTRCTN MATL PACIFICNA LLC
Entity Title: Not reported
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City: ELDORADOHILLS
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: RICK HANCOCK
Entity Title: PLANT MANAGER
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAY
Affiliation City: ELDORADOHILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: CEMEX CONSTUCTION MATL PACIFIC LLC
Entity Title: OWNER
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAY
Affiliation City: ELDORADOHILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: RMC LONESTAR

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 215748
CERS ID: T0601300439
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 103985
CERS ID: 254432
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-05-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 103985
Facility Name: CEMEX
Env Int Type Code: SMSWIND
Program ID: 254432
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.933500
Longitude: -121.941910

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Rosa Fibla Matamoros
Entity Title: Not reported
Affiliation Address: 2365 Iron Point Road, Suite 120
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95630
Affiliation Phone: Not reported

Affiliation Type Desc: Owner/Operator
Entity Name: CEMEX
Entity Title: Operator
Affiliation Address: 2365 Iron Point Road Suite 120

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2365 Iron Point Road, Suite 120
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95630
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Cemex Construction Materials Pacific, LLC
Entity Title: Not reported
Affiliation Address: 2365 Iron Point Road, Suite 120
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95630
Affiliation Phone: (916) 941-2800

Affiliation Type Desc: Operator
Entity Name: Cemex Construction Materials Pacific, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 672-4900

Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 103985
CERS ID: 10005676
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Description: Failure to implement the SPCC Plan.
Violation Notes: Returned to compliance on 01/04/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2018
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985
Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

---

5 **KAISER SAND & GRAVEL** **LUST** **1000727398**
NW **2484 PINE HOLLOW RD** **HIST CORTESE** **N/A**
1/4-1/2 **CLAYTON, CA 94517** **CERS**
0.461 mi.
2433 ft.

Relative:
Lower

Actual:
434 ft.

LUST:

Name:	KAISER SAND & GRAVEL
Address:	2484 PINE HOLLOW RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300548
Global Id:	T0601300548
Latitude:	37.9411
Longitude:	-121.94935
Status:	Completed - Case Closed
Status Date:	03/26/1997
Case Worker:	KEB
RB Case Number:	07-0595
Local Agency:	CONTRA COSTA COUNTY
File Location:	Not reported
Local Case Number:	02247
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel

KAISER SAND & GRAVEL (Continued) **1000727398**

Site History: Not reported

LUST:
Global Id: T0601300548
Contact Type: Regional Board Caseworker
Contact Name: KEVIN BROWN
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: kebrown@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300548
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Stopped

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Reported

Global Id: T0601300548
Action Type: ENFORCEMENT
Date: 03/26/1997
Action: Closure/No Further Action Letter

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Discovery

LUST:
Global Id: T0601300548
Status: Completed - Case Closed
Status Date: 03/26/1997

Global Id: T0601300548
Status: Open - Case Begin Date
Status Date: 11/19/1985

Global Id: T0601300548
Status: Open - Site Assessment
Status Date: 08/01/1994

KAISER SAND & GRAVEL (Continued) **1000727398**

LUST REG 2:
Region: 2
Facility Id: 07-0595
Facility Status: Case Closed
Case Number: 02247
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/1/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:
edr_fname: KAISER SAND & GRAVEL
edr_fadd1: 2484 PINE HOLLOW
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0595

CERS:
Name: KAISER SAND & GRAVEL
Address: 2484 PINE HOLLOW RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 257971
CERS ID: T0601300548
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/20/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/18/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 50

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 70

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/15/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/04/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/18/2019
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 79

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/28/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 76
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

408841
MITCHELL CANYON ROAD
CLAYTON, CA 94517

TARGET PROPERTY COORDINATES

Latitude (North):	37.935515 - 37° 56' 7.85''
Longitude (West):	121.943254 - 121° 56' 35.71''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592864.2
UTM Y (Meters):	4198981.5
Elevation:	506 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

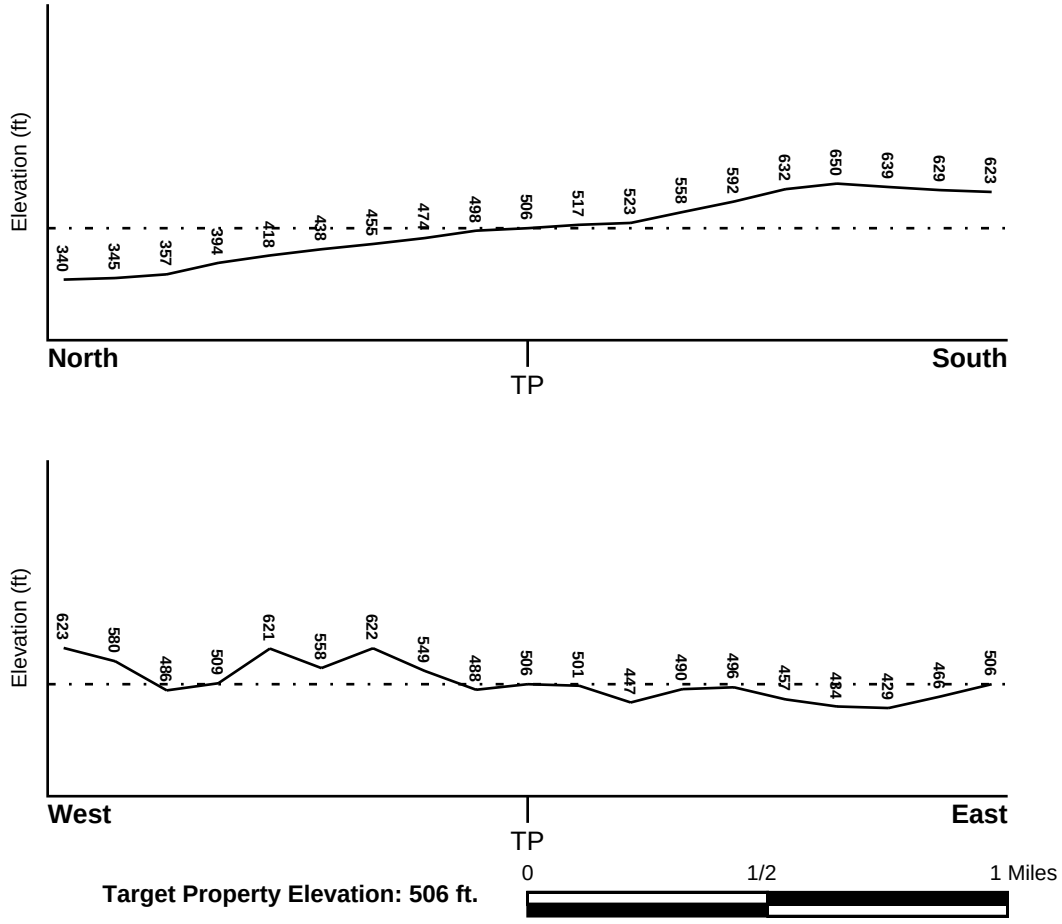
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06013C0312F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06013C0304F	FEMA FIRM Flood data
06013C0308F	FEMA FIRM Flood data
06013C0316F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CLAYTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

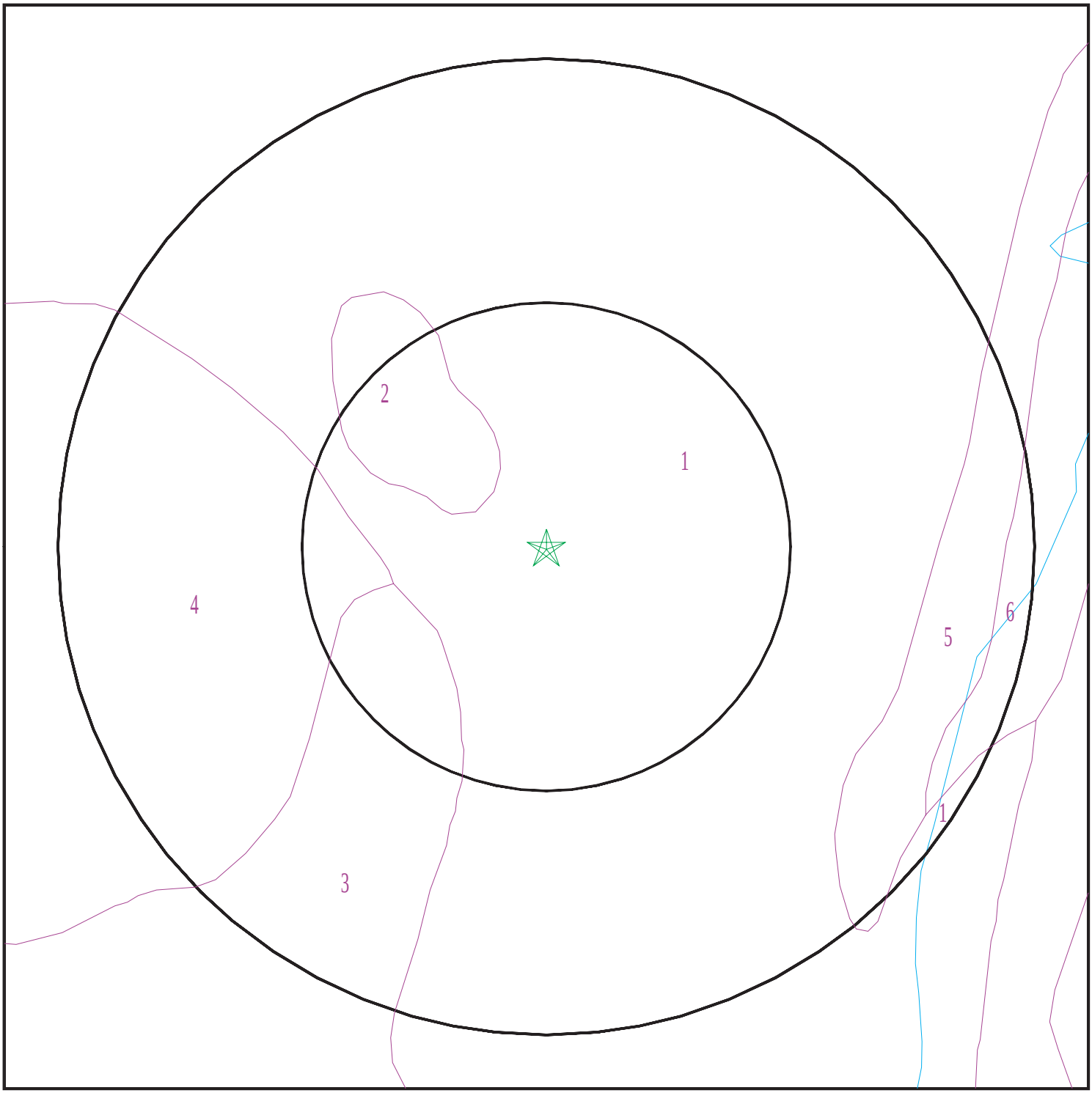
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5720065.2s



SITE NAME:	408841	CLIENT:	AEI Consultants
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Tony Chilese
		INQUIRY #:	5720065.2s
LAT/LONG:	37.935515 / 121.943254	DATE:	July 17, 2019 8:03 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: PERKINS

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: LOS OSOS

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: Perkins

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 6

Soil Component Name: ZAMORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

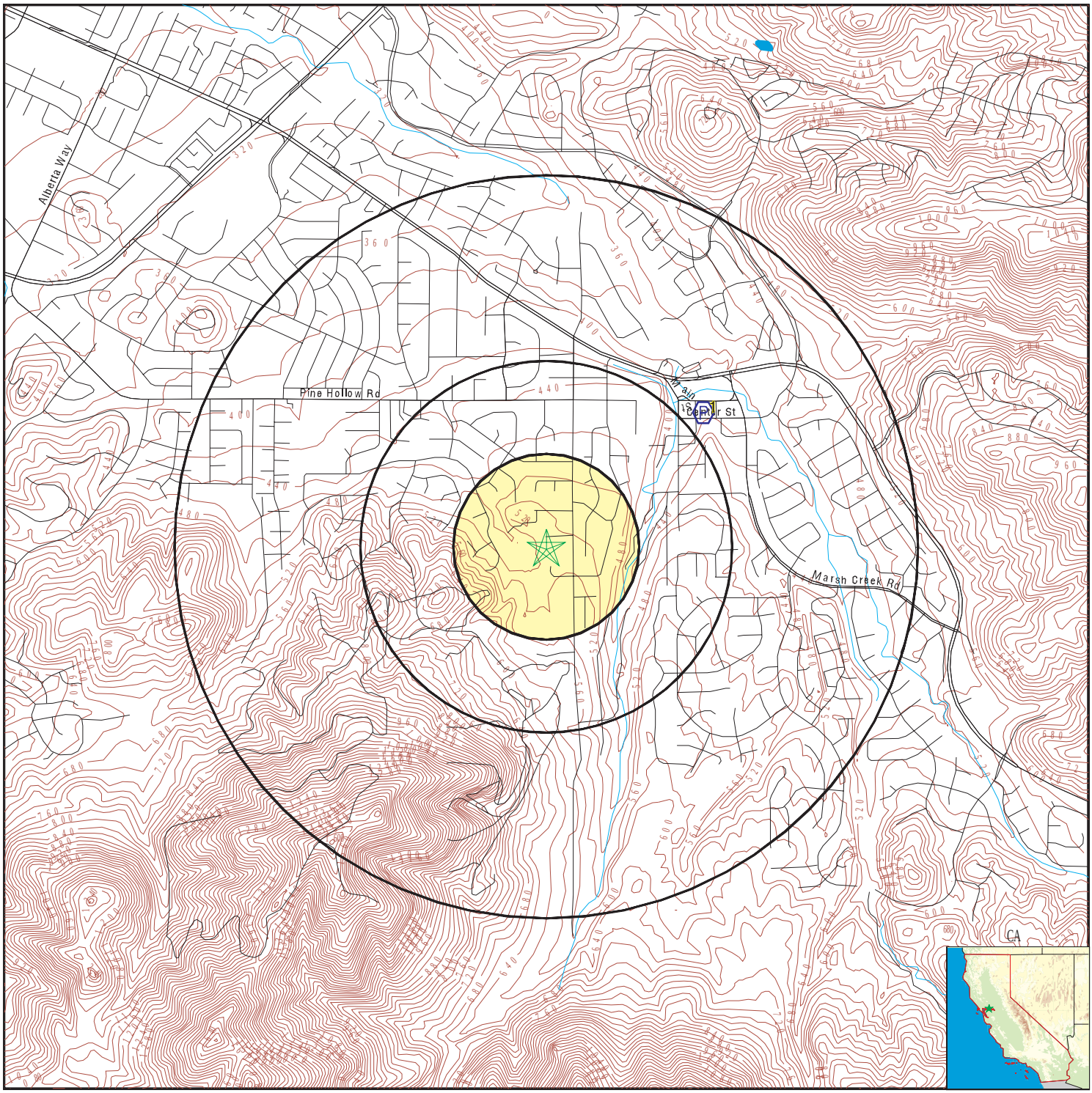
MAP ID	WELL ID	LOCATION FROM TP
1	CA0706053	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5720065.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

N

SITE NAME:	408841	CLIENT:	AEI Consultants
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Tony Chilese
		INQUIRY #:	5720065.2s
LAT/LONG:	37.935515 / 121.943254	DATE:	July 17, 2019 8:03 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
1/2 - 1 Mile
Lower | **FRDS PWS** | **CA0706053**

PWS ID:	CA0706053	PWS type:	System Owner/Responsible Party
PWS name:	VERNON PETERSON	PWS address:	Not Reported
PWS city:	CLAYTON	PWS state:	CA
PWS zip:	94517	PWS ID:	CA0706053
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	BROKEN WHEEL	System address:	VERNON PETERSON
System address:	HWY 4 & HILL AVE	System city:	OAKLEY
System state:	CA	System zip:	94561
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	375627	Longitude:	1215604

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94517	6	0

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94517

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

APPENDIX D

HISTORICAL SOURCES

408841

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5720065.5

July 18, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/18/19

Site Name:

408841
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5720065.5

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Tony Chilese

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: June 12, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1966	1"=500'	Flight Date: May 15, 1966	USDA
1963	1"=500'	Flight Date: July 16, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: August 13, 1958	USDA
1950	1"=500'	Flight Date: March 12, 1950	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1946	1"=500'	Flight Date: July 22, 1946	USGS
1939	1"=500'	Flight Date: July 25, 1939	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2016

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2012

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2009

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2006

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1998

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1993

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1982

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1979

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1966

AEI Consultants

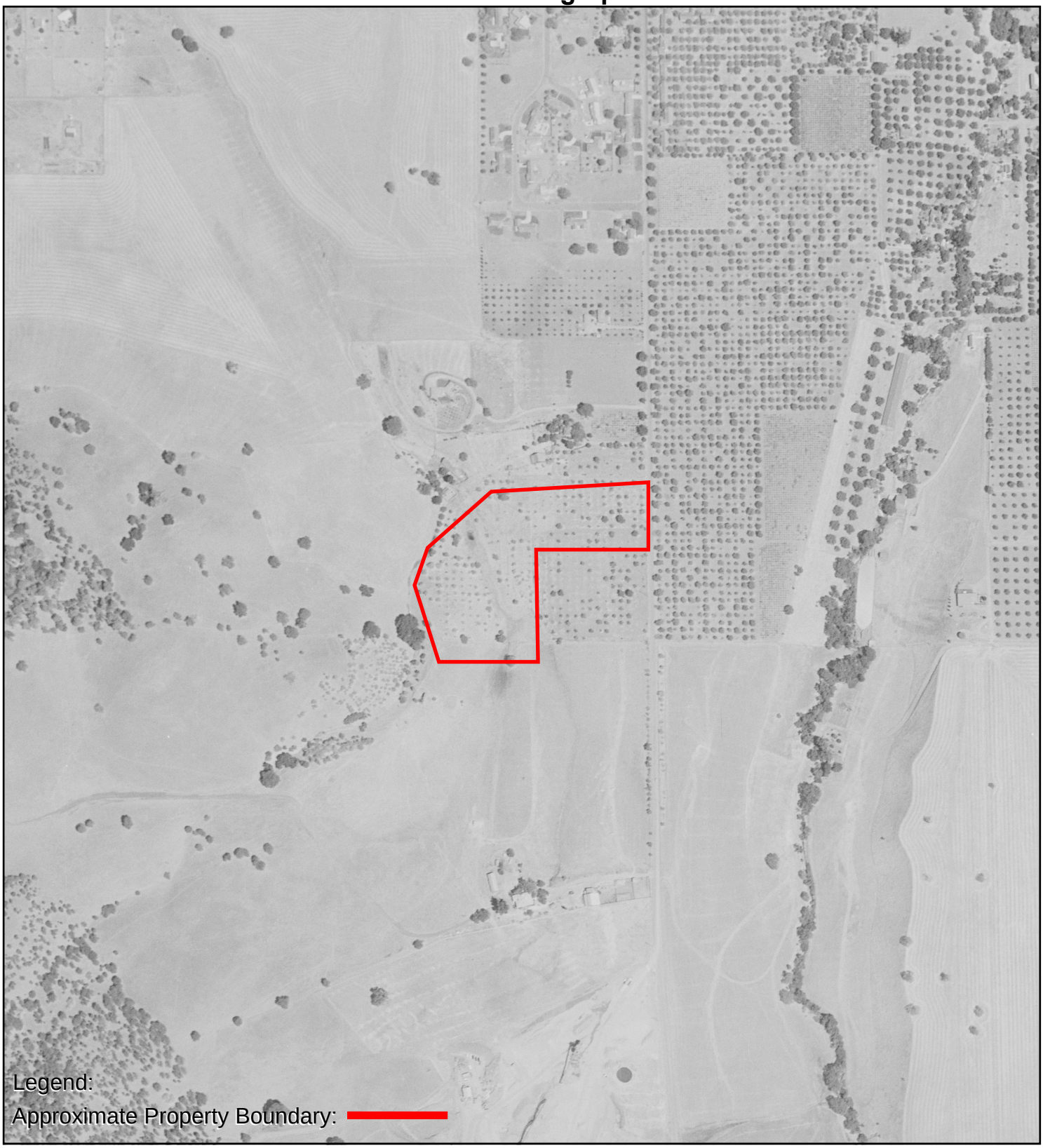


0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1963

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1958

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1950

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1949

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1946

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1939

AEI Consultants

408841

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5720065.3

July 17, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/17/19

Site Name:

408841
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5720065.3

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Tony Chilese

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AEI Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 112B-4C29-BD50

PO # 200133

Project 408841

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 112B-4C29-BD50

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

AEI Consultants (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

APPENDIX E

REGULATORY AGENCY RECORDS

ANNA M. ROTH, RN, MS, MPH
HEALTH SERVICES DIRECTOR
RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH & HAZMAT OFFICER

CONTRA COSTA HEALTH SERVICES

CONTRA COSTA HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, California 94553
Ph (925) 335-3200
Fax (925) 646-2073
ccchazmat@hsd.cccounty.us
www.cchealth.org/hazmat/

Public Records Request Form

SR#_____
(office use only)

Date: _____

Name: _____ **Business Name:** _____

Address: _____ **Phone #**: _____

_____ **E-mail:** _____

I am requesting the following public record(s) from Contra Costa Health Services Hazardous Materials Programs.

RECORD(S) REQUESTED: (Use additional form (s) if more space is needed)

Our records are available electronically. Please choose one of the methods below:

☐ Please copy the record(s) and send FedEx to the above mailing address.
The cost is $15.00 and is payable by check or credit card (Visa, Discover or M/C).

☐ Please copy the record(s) and notify me when ready for pick up.
The cost is $3.00 and is payable by check or cash (**MUST BE EXACT**).

☐ **If you would like us to provide a list of sites in our database, please choose:**
Please copy all "Active" or "Inactive" sites from database Cost: $15.00

You may email the completed form to ccchazmat@hsd.cccounty.us, or mail or hand deliver to Contra Costa Health Services Hazardous Materials Programs at 4585 Pacheco Blvd., Suite 100, Martinez, CA 94553; or FAX to (925) 646-2073.

Office Use Only:

Date Received_____ Completed_____ ☐No records exist responsive to this request.

Picked Up_____ or FedEx_____ XR_____ Time Spent_____

Rev. April 2018

AEI Consultants
Environmental & Engineering Services
2500 Camino Diablo, Walnut Creek, CA 94597
Tel: 925.746.6000 Fax: 925.746.6099

July 9, 2019

Attn: File Review
Contra Costa County Fire Protection District
P: (925) 941-3300
F: (925) 634-3309

Subject: Freedom of Information Act (FOIA) Request/File Review Request
AEI Project No. 408841

To Whom It May Concern:

AEI has been contracted to perform a Phase I Environmental Site Assessment. Please indicate if you have any current or archived records pertaining to aboveground storage tanks (ASTs), underground storage tanks (USTs), hazardous materials storage/disposal and/or industrial waste discharges for the following site(s):

- 121-090-011-2 and 121-090-01-1, Mitchell Canyon Road, Clayton, CA

If you do not have any records, please indicate in the space below and fax back this sheet to (510) 338-3192, or call me at (925) 708-7325, if you have any questions.

Sincerely,

Lea Palumbo
Project Manager
lpalumbo@aeiconsultants.com

☐ No Files for address(es) listed above
Name: _____
Title: _____
Phone: _____

X_____ _____
Signature Date

APPENDIX F

OTHER SUPPORTING DOCUMENTATION

AEI Consultants

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

Instructions: Please complete the following questionnaire to the best of your knowledge.

PROJECT/SITE INFORMATION			
Project Street Address(es): Mitchell Canyon Road			
City: Clayton	County: Contra Costa	State: CA	Zip: 94517
Parcel Number(s): 121-090-011-2 and 121-090-016-1			

CONTACT INFORMATION			
Contact	**Name**	**Phone Number**	**Years Associated w/Site**
Owner:	Fred B. Clayton	(650) 264-8006	50 ☐years
Site Contact:	Karen Isobe	(408) 836-8442	
Key Site Manager:			
Previous Owner(s), Operators and/or Occupants:			

PROPERTY USE AND SPECIFICATIONS	
☐ Single-Family Residential	☒ Vacant or undeveloped
☐ Multi-Family Residential	☐ Agricultural *specify type:*
☐ Commercial Office	☐ Industrial *specify type:*
☐ Commercial Retail	☐ Other *specify type:*
Provide a general site description: 2 parcels, vacant & undeveloped, approximately 8.65 Acres on Mitchell Canyon Rd., Clayton, CA	
Provide all known current/former addresses and/or parcel numbers: Parcels ☐121-090-011-2 & ☐121-090-016-1	
Total Property Size: Approximately 8.65 acres	Original Construction Date: 50 ☐years
Total Number of Buildings: 1 Shed	Was Construction Phased? ☐Yes ☒No ☐Unk
Total Sq. Ft. of Buildings: Approx. 216 sq. ft.	Dates of Renovations/Phases:
Are there any plans for site redevelopment or change in use? ☐Yes ☒No If yes, please describe:	
Are there any bodies of water on or immediately adjacent to the site? ☐Yes ☒No If yes, please describe:	
Electricity Provider: N/A	Gas Provider: N/A
Heating System Fuel Source(s): N/A	Cooling System Power Source: N/A
Potable Water Source/Provider: Well	
Any waste water discharge at the site? N/A ☐ Septic Tank/Leachfield ☐ Sanitary Sewer ☐ Other	Sanitary Sewer Provider N/A (if applicable):

OCCUPANTS/TENANTS		
Current Occupant(s)/Tenant(s)	**Length of occupancy**	**Brief description of on-site operations**
N/A		
Previous Occupant(s)/Tenant(s)	**Length of occupancy**	**Brief description of on-site operations**
N/A		

Project Number:	408841	Return via Fax:	(510) 338-3192
Project Manager:	Lea Palumbo	Return via Email:	lpalumbo@aeiconsultants.com

AEI Consultants

Has the subject site ever been occupied by the following? N/A
☐ Dry Cleaner ☐ Gas Station ☐ Printing Facility ☐ Manufacturing Facility
If yes, provide length of occupancy:

Have any previous investigations been performed at the subject property? ☐Yes ☒No
If Yes, are copies available? ☐Yes ☐No
If Yes, also note type and describe: ☐ Phase I ESA ☐ Phase II ☐ Asbestos ☐ Lead Paint ☐ Radon

ON-SITE ENVIRONMENTAL CONDITIONS

Are you aware of any of the following environmental conditions, **either current or former**, on the subject site?

NOTE: If applicable, please provide inventory records, inspection records and Safety Data Sheets (SDSs) to site inspector during site inspection.

Environmental Condition/Issue	Response	Notes on Yes Responses
Aboveground Storage Tanks	☐ Yes ☒ No	
Underground Storage Tanks	☐ Yes ☒ No	
Hazardous/Toxic Substances	☐ Yes ☒ No	
Stored Chemicals	☐ Yes ☒ No	
Chemical Spills/Releases	☐ Yes ☒ No	
Dump Areas/Landfills	☐ Yes ☒ No	
Waste Treatment Systems	☐ Yes ☒ No	
Wastewater Discharges	☐ Yes ☒ No	
Floor Drains/Sumps/Clarifiers	☐ Yes ☒ No	
Pits, Ponds, Lagoons	☐ Yes ☒ No	
Stained Soil/Vegetation	☐ Yes ☐ No	
Pesticide/Herbicide Use	☐ Yes ☒ No	
Polychlorinated Biphenyls (PCBs)	☐ Yes ☒ No	
Electrical Transformers	☐ Yes ☒ No	
Hydraulic Lifts	☐ Yes ☒ No	
Elevators	☐ Yes ☒ No	
Asbestos	☐ Yes ☒ No	

AEI Consultants

Environmental Condition/Issue	Response	Notes on Yes Responses
Lead-Based Paint	☐ Yes ☐ No	Shed was painted 50☐years ago
Oil/Gas Wells	☐ Yes ☒ No	
Environmental Cleanups	☐ Yes ☒ No	
Environmental Permits	☐ Yes ☒ No	

OTHER ENVIRONMENTAL CONDITIONS

Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
☐ Yes ☒ No If yes, provide brief explanation.

Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?
☐ Yes ☒ No If yes, provide brief explanation.

Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
☐ Yes ☒ No If yes, provide brief explanation.

Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?
☐ Yes ☒ No If yes, provide brief explanation.

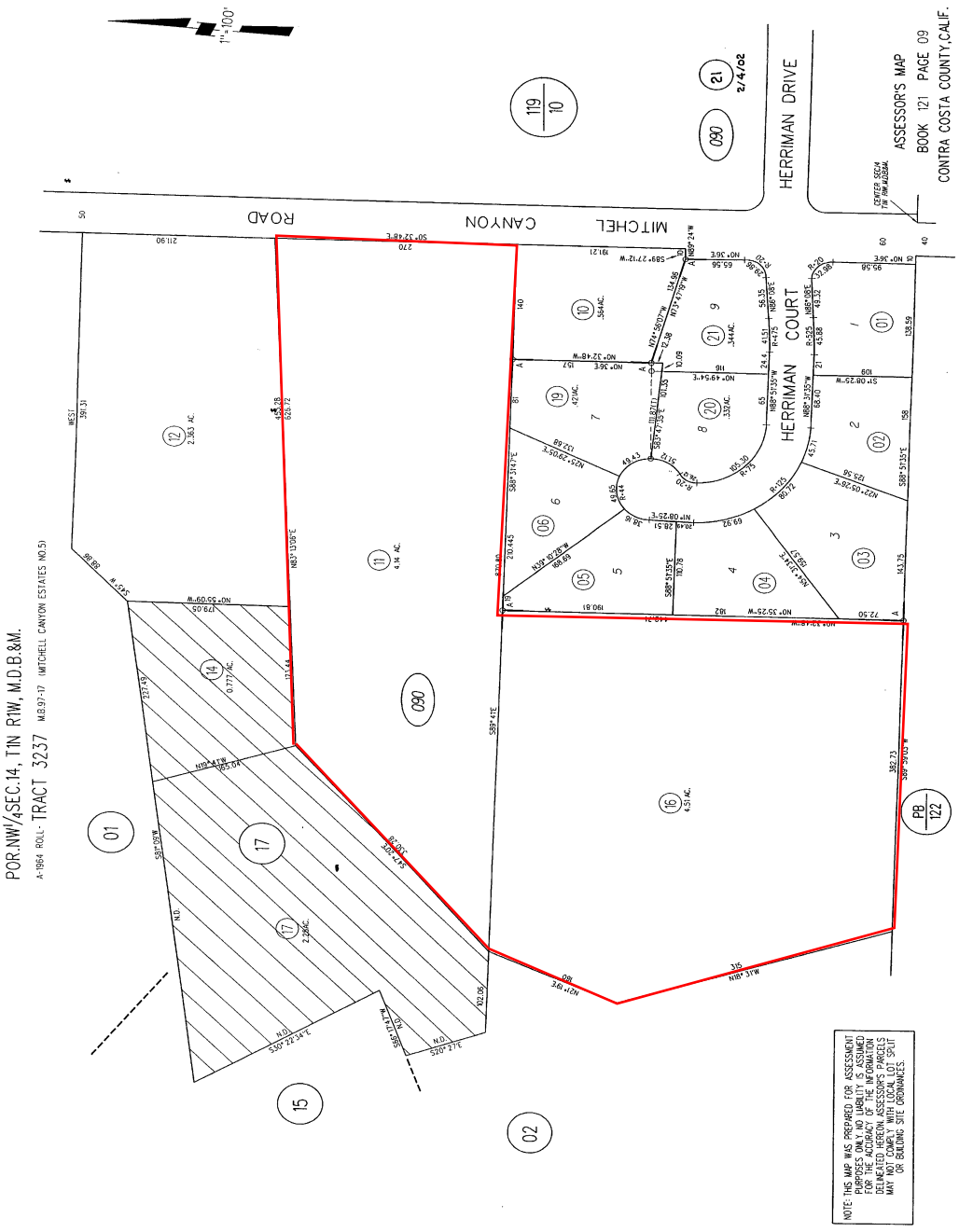
Are you aware of any cases of extreme water damage or mold throughout the building(s)?
☐ Yes ☒ No If yes, provide brief explanation.

Person completing questionnaire: Fred B. Clayton / Karen Isobe

Title/Affiliation to the subject property: Owner / Trustee

Number of years associated with the subject property: 50 ☐years

Date: August 5, 2019


ASSESSOR'S MAP
BOOK 121 PAGE 09
CONTRA COSTA COUNTY, CALIF.
HERRIMAN DRIVE
HERRIMAN COURT
MITCHELL CANYON ROAD
POR. NW1/4SEC. 14, T1N R1W, M.D.B.&M.
A-1964 ROLL - TRACT 3237 M.B. 97-17 (MITCHELL CANYON ESTATES NO.5)
NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION DELINEATED HEREON. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT SPLIT OR BUILDING SITE ORDINANCES.

ENVIROSTOR

mitchell canyon road, clayton, ca Map Address

Sites and Facilities

Cleanup Sites
- Federal Superfund
- State Response
- Voluntary Cleanup
- School Cleanup
- Evaluation
- School Investigation
- Military Evaluation
- Tiered Permit
- Corrective Action

STATUS
All Statuses

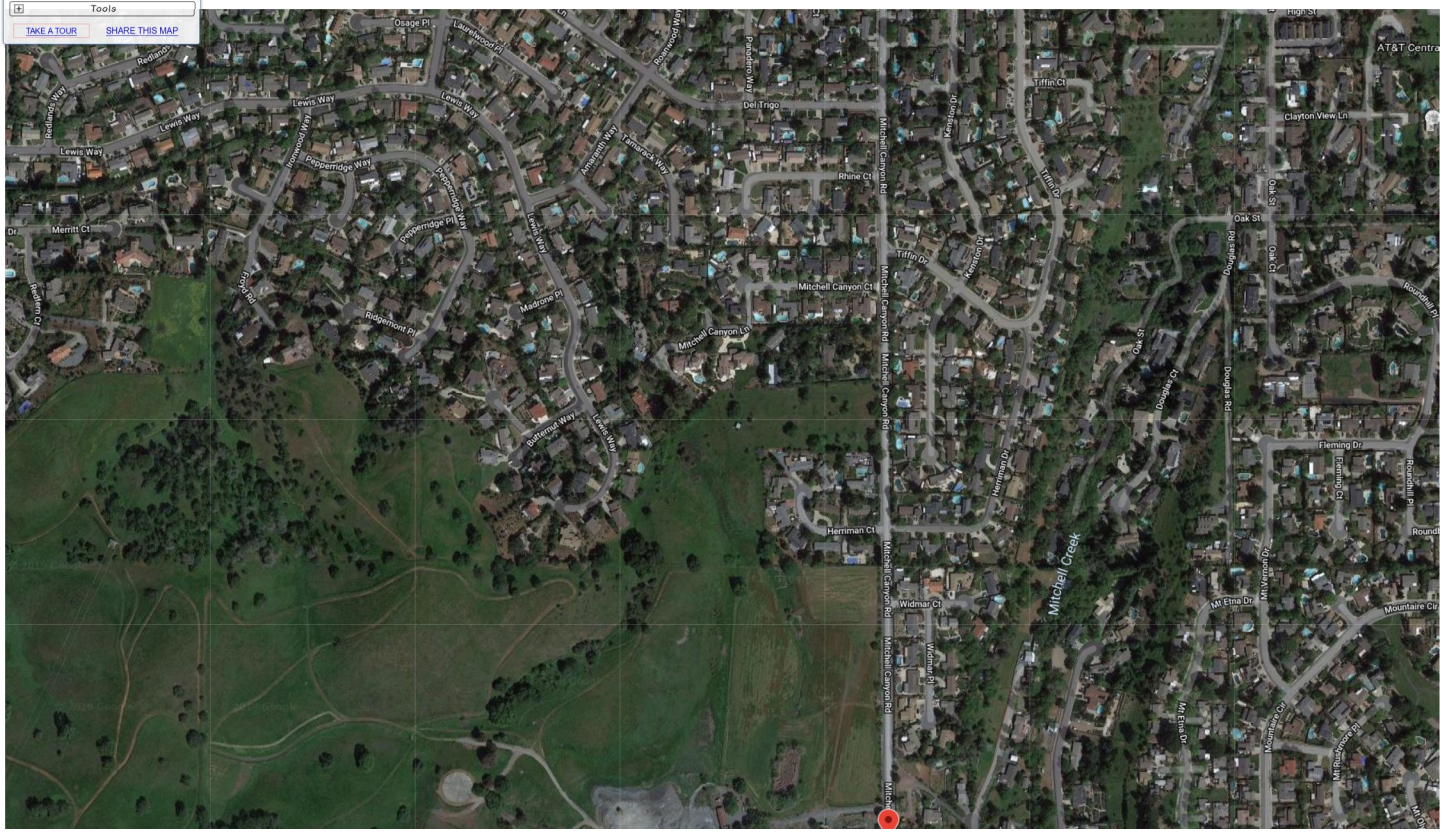
Permitted Sites
- Operating
- Post-Closure
- Non-Operating

Other Sites

GIS Layers

Tools

TAKE A TOUR SHARE THIS MAP



Google Map data ©2019 Imagery ©2019 , CNES / Airbus, DigitalGlobe, 50 m Report a map error

SITES CURRENTLY VISIBLE ON MAP 0 SITES LISTED EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY

GEOTRACKER

Enter an address | Map Address

Sites and Facilities - INFO

Cleanup Sites
- LUST Cleanup Sites
- Cleanup Program Sites
- Military Cleanup Sites
- DTSC Cleanup Sites

Permitted Facilities
- Waste Discharge Requirements (WDR) Sites
- Permitted USTs - INFO
- DTSC Hazardous Waste Sites
- Land Disposal Sites - SELECT NONE
  - Burn Dump
  - Compost Facility
  - Illegal Disposal Site
  - Other
  - Pre-Title 27 - CAI
  - Title 27 - Land Treatment Unit
  - Title 27 - Mining Unit
  - Title 27 - Municipal Solid Waste Landfill
  - Title 27 - Non-Municipal Solid Waste Landfill
  - Title 27 - Surface Impoundment
  - Title 27 - Waste Pile
  - Unknown
- Irrigated Lands Regulatory Program Sites

Oil / Gas Sites
- Other Oil and Gas Projects
- Produced Water Ponds
- Underground Injection Control (UIC)
- Well Stimulation Project - Exclusion
- Well Stimulation Project - Groundwater Monitoring Plan
- Well Stimulation Projects - Property Owner Sampling
- Confined Animal Sites

Other Sites
- Project Sites
- Non-Case Information Sites
- Sampling Points - Public
- Field Points

SIGNIFIES A CLOSED SITE

Tools

Map Coverages

TAKE A TOUR | VIEW ON GAMA

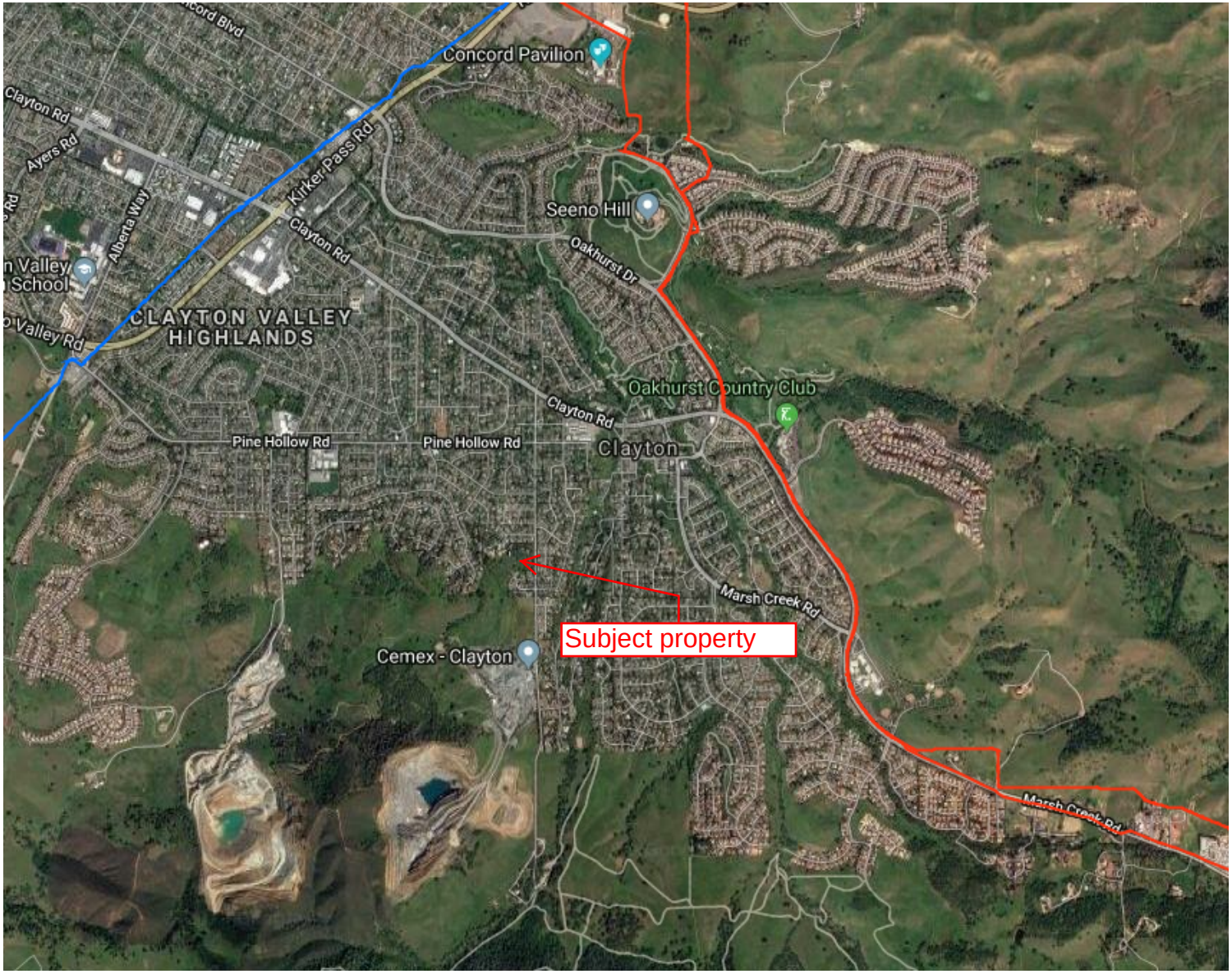


Google

Map data ©2019 Imagery ©2019 , CNES / Airbus, DigitalGlobe, 20 m Report a map error

SITES CURRENTLY VISIBLE ON MAP — 0 SITES LISTED — EXPORT THIS LIST TO EXCEL

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY



Legend

- Accidents (Liquid)
- Incidents (Gas)
- LNG Plants
- Breakout Tanks
- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

500 m
1000 ft

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

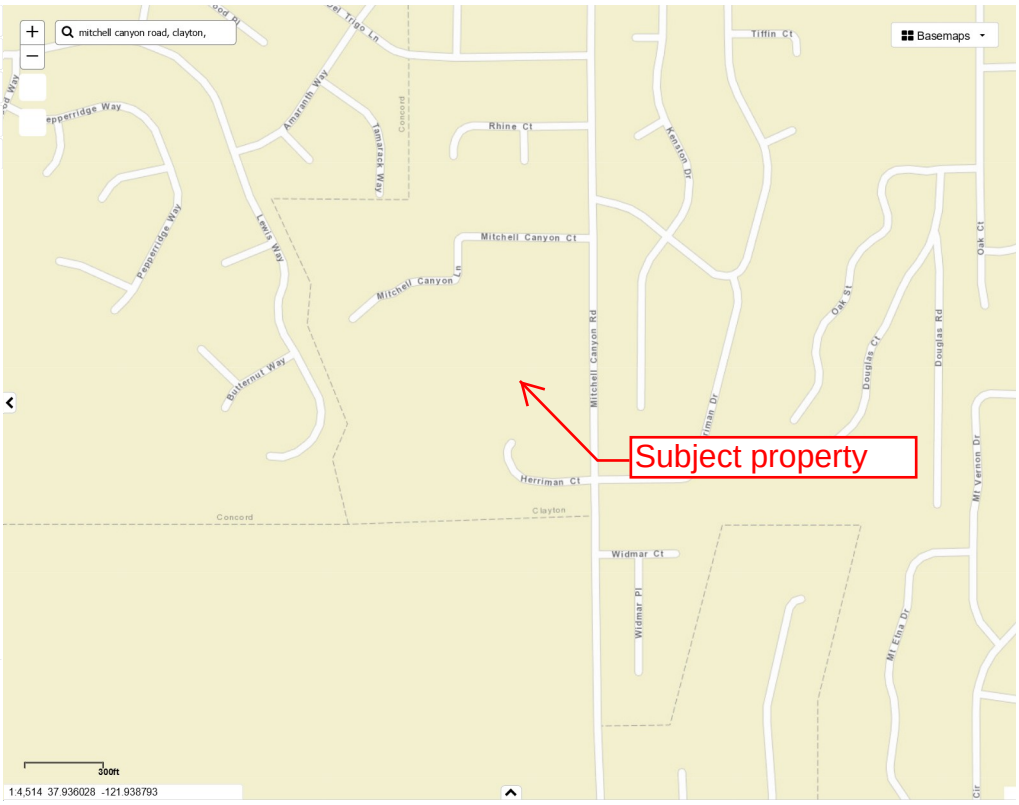
Date Printed: Aug 01, 2019

811 Know what's below. Call before you dig.

Well Finder
DOGGR GIS

More Info | Help | ©

- Well Status and Well Type Filter
- Search
- Zoom to Field
- Measurement
- Layers
  - Notice and Permit
  - Well
    - Well
    - Geothermal Well
    - EPA Well for Aquifer Exemption Review
  - Facility
    - Tank
    - Pit/Sump
    - Setting
    - Facility Boundary (non-wellstar)
  - Underground Gas Storage
  - Well Stimulation
  - TR26 Onshore Seep Count
  - Oil/Gas Field
  - DOGGR District
  - Public Land Survey System
  - City
  - Legislative Districts
  - County
  - California Geologic Map



APPENDIX G

QUALIFICATIONS

Lea Palumbo ☐Project Manager, Due Diligence

BS ☐Environmental Policy Analysis and Planning (emphasis in Climate Change Policy), University of California, Davis

Ms. Palumbo has been in the environmental service industry since 2013. She provides project management to ensure ASTM compliance and satisfaction of client requirements for Phase I Environmental Site Assessments, Environmental Transaction Screens, Regulatory Database Reviews, and Historical Records Reviews.

Project experience for Ms. Palumbo includes:

- Phase I Environmental Site Assessments (PHI ESA)
- Limited Environmental Site Assessments
- Environmental Transaction Screens (ETS)
- Records Research with Risk Assessments
- Regulatory Database Reviews
- Historical Records Reviews

In addition, prior to joining the environmental consulting industry, Ms. Palumbo spent four years studying a diverse range of environmental disciplines including: environmental policy analysis, environmental law, geology, Geographic Information Systems (GIS), sustainable development, and environmental planning.

Richard D. Fehler – National Client Manager

B.S. – Zoology, University of California, Davis

California Registered Environmental Assessor (REA I)

Mr. Fehler has over twenty-five years of environmental management experience gained as an environmental consultant; in the chemical manufacturing industry; in the hazardous waste management industry; and as an environmental regulator. He specializes in all aspects of environmental due diligence, regulatory compliance and negotiations, hazardous waste management, and auditing. Mr. Fehler has also received training in Greenhouse Gas and Sustainability Verification.

Mr. Fehler has served as project principal on hundreds of projects with wide-ranging scopes, including peer reviews and desktop reviews; due diligence on large portfolios (200 sites+), as well as single assets; investigation and management of lead, asbestos, mold, and *Legionella*; investigation, remediation and management of contamination in groundwater, soil and soil vapor; regulatory compliance and auditing; and representing clients with regulators to negotiate site closure/No Further Action and/or to develop effective remediation strategies and budgets.

Project experience for Mr. Fehler includes:

- Multiple Site Due Diligence - Managed and designed projects for many large portfolios (100-plus) of varied properties spread across various states. The scopes of work frequently include Indoor Air Quality/mold issues, lead-based paint, asbestos, and radon testing. The design of appropriate Phase II sampling is frequently required to resolve and close issues.

- Environmental Compliance Reviews – Designed and managed many environmental compliance audits for single or multiple assets. Project activities usually involve inspections, interviews, reviewing environmental permits, past environmental reports, standard operating procedures, material safety data sheets (MSDS), and other information related to regulatory compliance in the areas of hazardous materials, hazardous and non-hazardous waste management, workplace health & safety, air permitting and emission reporting, waste water permitting and monitoring, storm water management, underground storage tanks, and aboveground storage tanks.

- Regulatory Negotiation – Managed many Phase II investigations conducted in response to regulatory requirements or to resolve issues and/or to obtain case closure or No Further Action. Represented clients with regulators to negotiate appropriate scopes of work and move projects to successful completion.

APPENDIX H

LIST OF COMMONLY USED ABBREVIATIONS

UNITS

µg/L	Micrograms per Liter	**pCi/L**	PicoCuries per Liter
mg/kg	Milligrams per Kilogram	**ppb**	Parts per Billion
mg/L	Milligrams per Liter	**ppm**	Parts per Million

ABBREVIATIONS AND ACRONYMS

ACM	Asbestos-Containing Material	**NESHAP**	National Emission Standards for Hazardous Air Pollutants
ADJ	Adjacent site	**NFA**	No Further Action
AEI	AEI Consultants	**NFRAP**	No Further Remedial Action Planned
AHERA	Asbestos Hazard Emergency Response Act	**NLR**	No Longer Reporting
APN	Assessor's Parcel Number	**NOV**	Notice of Violation
AST	Aboveground Storage Tank	**NPL**	National Priorities List
AUL	Activity and Use Limitation	**O&M**	Operations and Maintenance
bgs	Below Ground Surface	**OEC**	Other Environmental Considerations
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes	**OSHA**	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response Compensation and Liability Act	**PCB**	Polychlorinated Biphenyl
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System	**PCE, PERC**	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene
CESQGs	Conditionally Exempt Small Quantity Generators	**RCRA**	Resource Conservation and Recovery Act
COC	Contaminant of Concern	**REC**	Recognized Environmental Condition
CREC	Controlled Recognized Environmental Condition	**RP**	Responsible Party
EC	Engineering Controls	**SDS**	Safety Data Sheet
EDR	Environmental Data Resources, Inc.	**SEMS**	Superfund Enterprise Management System
EPA	Environmental Protection Agency	**SF**	Square Footage/Square Feet
ERIS	Environmental Risk Information Services	**SP**	Subject Property
ERNS	Emergency Response Notification System	**SQG**	Small Quantity Generator
ESA	Environmental Site Assessment	**SWLF**	Solid Waste Landfill
GPR	Ground-Penetrating Radar	**SVOC**	Semi-Volatile Organic Compound
HREC	Historical Recognized Environmental Condition	**TCE**	Trichloroethylene, Trichloroethene
HVAC	Heating, Ventilation and Air Conditioning	**TPH**	Total Petroleum Hydrocarbons
HWS	Hazardous Waste Site	**TPHd**	Total Petroleum Hydrocarbons (diesel range)
IC	Institutional Controls	**TPHg**	Total Petroleum Hydrocarbons (gasoline range)
LBP	Lead-Based Paint	**TPHo**	Total Petroleum Hydrocarbons (oil range)
LCP	Lead-Containing Paint	**TRPH**	Total Recoverable Petroleum Hydrocarbons
LLP	Landowner Liability Protection	**TSDF**	Treatment, Storage, and Disposal Facility
LQG	Large Quantity Generator	**USDA**	United States Department of Agriculture
LUST	Leaking Underground Storage Tank	**USGS**	United States Geological Survey
MCL	Maximum Contaminant Level	**UST**	Underground Storage Tank
MTBE	Methyl Tertiary Butyl Ether	**VCP**	Voluntary Cleanup Program
ND	None Detected	**VOC**	Volatile Organic Compound

AEI Consultants

September 17, 2019

LIMITED SOIL SAMPLE INVESTIGATION

Property Identification:
Mitchel Canyon Road,
Clayton, California

AEI Project No. 408841

Prepared for:
Mr. Rick Rosenbaum
Ponderosa Homes II, Inc.
5020 Franklin Drive, Suite 200
Pleasanton, California 94588

Prepared by:
AEI Consultants
2500 Camino Diablo,
Walnut Creek, California 94597
925.746.6000

AEI Contact: Peter McIntyre
Executive Vice President
925-746-6004
pmcintyre@aeiconsultants.com

Environmental Due Diligence

Building Assessments

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Risk Management

Zoning Analysis Reports & ALTA Surveys

TABLE OF CONTENTS

1.0 SITE DESCRIPTION 1

2.0 BACKGROUND 2

3.0 INVESTIGATION EFFORTS 2

3.1 Health and Safety Plan 2
3.2 Permitting and Utility Clearance 2
3.3 Soil Sampling 2
3.4 Equipment Decontamination and Investigation-Derived Waste 3
3.5 Laboratory Analyses 3

4.0 FINDINGS 3

5.0 SUMMARY AND CONCLUSIONS 4

6.0 REFERENCES 4

7.0 REPORT LIMITATIONS AND RELIANCE 5

FIGURES

Figure 1 Site Location Map
Figure 2 Site Map

TABLES

Table 1 Soil Sample Data Summary
Table 2 Soil Sample Metals Data Summary

APPENDICES

Appendix A Laboratory Analytical Report

AEI Consultants

September 17, 2019

Mr. Rick Rosenbaum
Ponderosa Homes II, Inc.
5020 Franklin Drive, Suite 200
Pleasanton, California 94588

Subject: **Limited Soil Sample Investigation**
Mitchell County Road
Clayton, California 94517
AEI Project No. 408841

Dear Mr. Rosenbaum:

This report presents the results of the Limited Soil Sample Investigation performed by AEI Consultants (AEI) at the property located at Mitchell County Road, Clayton, California ("the Site"). This investigation was completed to assess the other environmental condition identified in August 9, 2019 *Draft Phase I Environmental Assessment (ESA)* completed by AEI. The investigation was completed in general accordance with the scope of services outlined in AEI's proposal dated August 15, 2019 (AEI Proposal Number 65947).

The purpose of the investigation performed was to evaluate whether subsurface conditions (i.e. soil) at the Site have been significantly impacted by former agricultural activities. Information regarding the Site description, background, scope of work, findings, conclusions, and recommendations are provided in the following sections.

1.0 SITE DESCRIPTION

Based on the Draft Phase I ESA dated August 9, 2019 (AEI Project Number 408841), the Site consists a vacant lot amounting to approximately 8.65 acres. A gardening shed exist within the northern portion of the vacant lot. The Site location and vicinity are shown on Figure 1. Figure 2 presents the Sample Location Map.

Based on a review of the United States Geological Survey (USGS) and United States Department of the Interior maps, the area surrounding the Site is underlain by Quaternary alluvium and late Holocene aged surficial sediments, alluvial gravel, sand, and. According to the topographic map interpretation, the regional topographic gradient direction slopes toward the northeast and, therefore, the direction of groundwater flow beneath the Site is inferred to be to the northeast. Based on the information obtained from the State Water Resource Control Board's GeoTracker database, approximately 3,800 feet northwest of the subject property, the estimated depth to the groundwater is greater than 50 feet below ground surface (bgs).

2.0 BACKGROUND

According to Draft Phase I ESA, a review of historical/regulatory agency records for the Site indicated the Site was historically used for agricultural purposes from 1939 through 1958. The Site appears to have been vacated and left as is in 1963. There is a potential agricultural chemicals, such as pesticides, were used at the Site and has been impacted by the use of such agricultural chemicals. AEI understands the Site is slated for development, potentially as residential building(s), or mixed-use commercial/residential building(s).

Therefore, AEI was requested by the client to perform a Limited Soil Sample Investigation in order to evaluate if the Site had been adversely impacted by the former agricultural activities at the Site. In addition, a sample was collected adjacent to a shed, the use of which was not well documented.

3.0 INVESTIGATION EFFORTS

The investigation included the collection of 18 near-surface soil samples for laboratory analysis. The scope of work for this investigation was designed in accordance with the protocol described in the California Department of Toxic Substances Control (DTSC) document entitled *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated August 7, 2008.

3.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

3.2 Permitting and Utility Clearance

A drilling permit and utility clearance was not required for this scope of work.

3.3 Soil Sampling

On August 29, 2019, a shallow soil sampling program was completed which was consistent with the protocol outlined in the DTSC *Interim Guidance for Sampling Agricultural Properties (Third Revision)* dated August 7, 2008. For the shallow sampling program, five separate sampling areas (SS-1, SS-2, SS-3, SS-4, and SS-5) were evenly spaced across the Site. Each sampling area consisted of three to four individual samples as shown on Figure 2. Four samples were taken from the SS-1 through SS-3 areas, and three samples were taken from the SS-4 and SS-5 areas. These samples were then composited into one sample for laboratory analysis. One discrete soil sample, SS-3C was collected adjacent to the storage shed in the SS-3 area. Soil samples were collected from clear, accessible areas within the Site.

Prior to sampling, loose vegetation and soil was cleared from the ground surface at each sample location and a small hole was dug to a depth of approximately six inches to first encountered native soil, with hand tools. A hand shovel was then used to collect soil from between three and six inches which was then transferred to clean, laboratory-supplied, 4-ounce glass jars. Upon collection, each sample was labeled with the project name, project number, and the sampling date and time. After labeling, each sample was placed into an insulated, ice-filled cooler for

transport to the analytical laboratory. Chain-of-custody documentation was prepared and accompanied the samples to the analytical laboratory, a copy of which is included in Appendix A.

3.4 Equipment Decontamination and Investigation-Derived Waste

The hand sampling equipment was decontaminated prior to and/or after collecting each soil sample. The equipment was cleaned using a triple-rinse method, which consisted of an initial wash containing an Alconox detergent and water solution, followed by two potable water rinses.

3.5 Laboratory Analyses

The soil samples were submitted to State of California certified laboratory, Pace Analytical of Mount Juliette, Tennessee. The five soil samples were analyzed for organochlorine pesticides (OCPs) using United States Environmental Protection Agency (US EPA) Method 8081A and for arsenic and lead using US EPA Method 6010.

One soil sample located adjacent to the storage shed (SS-3C) was also analyzed for Title 22 metals by US EPA Method 6020 and Total Petroleum Hydrocarbons-complete carbon chain (TPH-cc) by US EPA Method 8015.

Chain-of-custody documentation and the certified analytical report are provided in Appendix A. No further sample analysis was conducted as part of this investigation.

4.0 FINDINGS

Analytical results generated during this investigation were compared to the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) July 2019, Revision 2. The RWQCB ESLs are considered to be conservative. Under most circumstances, and within the limitations described in the RWQCB ESL guidance documents, the presence of a chemical in soil, at concentrations below the corresponding ESL guidance concentration may be assumed to not pose a significant threat to human health and the environment. Additional evaluation may be necessary at sites where a chemical is present at concentrations above the corresponding ESL.

Additionally, detections of metals in soils which exceed the ESLs were compared to the *Kearney Foundation of Soil Science Division of Agriculture and Natural Resources University of California Background Concentrations of Trace and Major Elements in California Soils* (Bradford 1996) to evaluate a background threshold.

For this investigation, AEI understands the Site will be redeveloped for residential and/or mixed-commercial/residential use. Therefore, analytical results generated during this investigation were compared to the ESLs assuming a direct shallow soil contact for residential use.

A total of ten soil samples were analyzed. Tables 1 and 2 presents a summary of the soil sample analytical results. Chain of custody documentation and the certified analytical report are provided in Appendix A. Analytical results for the soil samples indicated the following:

- Arsenic was detected in five of the soil samples analyzed, observed at concentrations ranging from 2.12 milligrams per kilogram (mg/kg) (SS-2D) to 3.88 mg/kg (SS-4B). The concentrations of arsenic exceeded the residential ESL of 0.067 mg/kg but are below the typical background concentration of 11.0 mg/kg.
- Lead was detected five of the soil samples analyzed, observed at concentrations ranging from 6.65 mg/kg (SS-2D) to 13.0 mg/kg (SS-4B). The concentrations of lead were below the residential ESL of 82 mg/kg.
- The soil sample from SS-3C indicated concentrations of antimony, barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, vanadium, and zinc all below their respective ESLs.
- TPH as gasoline, diesel, and oil were detected in the soil sample SS-3C at concentrations below their respective ESLs.
- OCPs were not detected above the laboratory reporting limit in any of the soil samples collected and analyzed.

5.0 SUMMARY AND CONCLUSIONS

AEI has completed a Limited Soil Sample Investigation at the Site as described above. The purpose of the investigation is to assess the presence/absence of impacted subsurface conditions (i.e. soil) in relation the historical agricultural use identified at the Site. Four samples were taken from the SS-1 through SS-3 areas, and three samples were taken from the SS-4 and SS-5 areas. These samples were then composited into one sample for laboratory analysis. One discrete soil sample, SS-3C was collected adjacent to the storage shed in SS-3 area.

Arsenic was detected in five of the soil samples at concentrations above the residential ESL but are below the typical background concentrations. Lead was detected five of the soil samples at concentrations below the residential ESL. The soil sample from SS-3C indicated concentrations of antimony, barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, vanadium, and zinc below their respective ESLs. TPH as gasoline, diesel, and oil were detected in the soil sample SS-3C at concentrations below their respective ESLs. OCPs were not detected above the laboratory reporting limit in any of the soil samples collected and analyzed. Therefore, no further investigation is warranted relative to OCPs, metals, or TPH in shallow soils at the Site.

6.0 REFERENCES

AEI Consultants (AEI), 2019, *Draft Phase I Environmental Site Assessment*, *Mitchell Canyon Road, Clayton, California 94588,* dated April 9, 2019.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, *Environmental Screening Levels*, dated July 2019, revision 2.

G. R. Bradford, et. al (Bradford), 1996, *Background Concentrations of Trace and Major Elements in California Soils*, Kearney Foundation of Soil Science Division of Agriculture and Natural Resources, University of California dated March 1996.

7.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the subject property. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

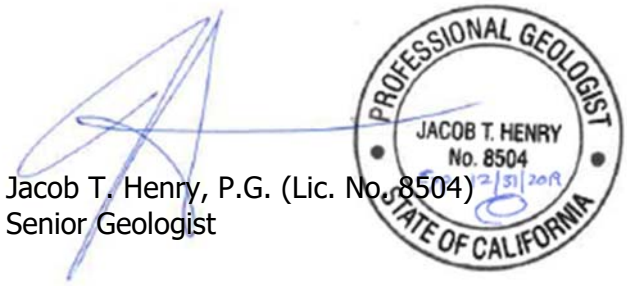
This investigation was prepared for the sole use and benefit of Ponderosa Homes II, Inc. All reports, both verbal and written, whether in draft or final, are for the benefit of Ponderosa Homes II, Inc. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Ponderosa Homes II, Inc. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact Peter McIntyre at 925-746-7600 or the undersigned.

Sincerely,
AEI Consultants



Peter McIntyre
Executive Vice President

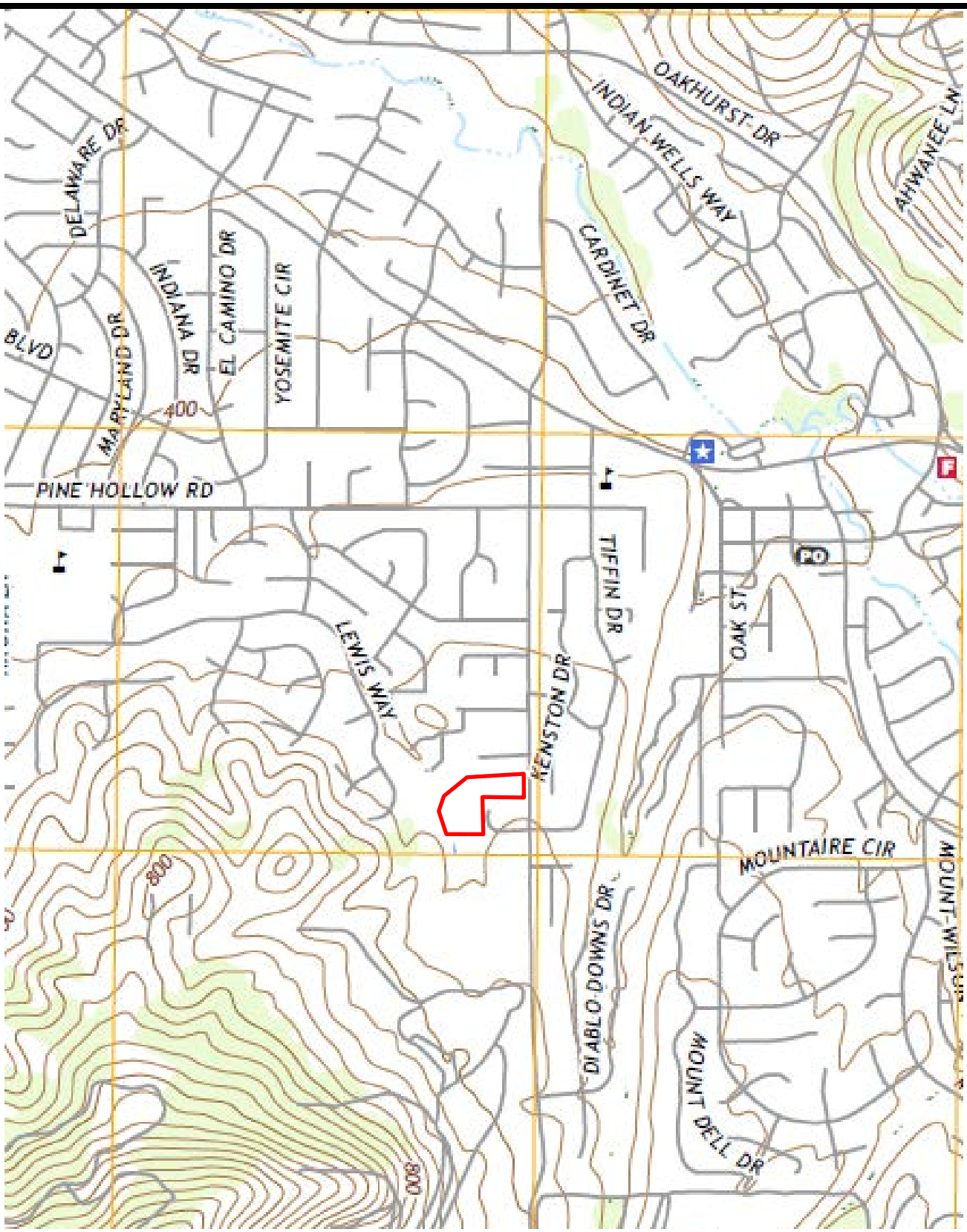


Jacob T. Henry, P.G. (Lic. No. 8504)
Senior Geologist

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
Phone: 925-746-6000

AEI Consultants

FIGURES



Legend
Approximate Property Boundary
Source: USGS Topographic Map *Clayton, California* (2018)

N

Figure 1: TOPOGRAPHIC MAP

Mitchell Canyon Road, Clayton, California 94517
Project Number: 408841

AEI Consultants



LEGEND

- Approximate Property Boundary
- Sample Location

0 75 150
SCALE: 1" = 40'

AEI Consultants

2500 Camino Diablo, Walnut Creek, California 94597

SITE MAP

Mitchell County Road,
Clayton, California 94517

FIGURE 2
Job Number 408841

TABLES

TABLE 1: SOIL SAMPLE DATA SUMMARY
Mitchell Canyon Road, Clayton, California 94517
AEI Project No. 40841

		U.S. EPA Method 8015M			U.S. EPA Method 8081
Location ID	**Date**	**TPH-g** (mg/kg)	**TPH-d** (mg/kg)	**TPH-o** (mg/kg)	**Pesticides** (mg/kg)
SS-1 COMP	8/29/2019	NA	NA	NA	<MDL
SS-2 COMP	8/29/2019	NA	NA	NA	<MDL
SS-3 COMP	8/29/2019	NA	NA	NA	<MDL
SS-4 COMP	8/29/2019	NA	NA	NA	<MDL
SS-5 COMP	8/29/2019	NA	NA	NA	<MDL
SS-3C	8/29/2019	0.523	1.82 J	22.2	<MDL
Comparison Values in mg/kg from SFBRWQCB Environmental Screening Levels (ESL), Table S-1, Res; July 2019 Revision 2		430	260	1,200	Varies

Notes:

	Analyses performed by Pace Analytical, Mt. Juliet, Tennessee
mg/kg	Milligrams per kilogram
ND<	Not detected above the method detection limit (MDL)
J	Estimated value above laboratory method detection limit, but below the limit for reporting
Table S-1	Direct Exposure Human Health Risk Levels
NA	Not Analyzed

TABLE 2: SOIL SAMPLE METALS DATA SUMMARY
Mitchell Canyon Road, Clayton, California 94517
AEI Project No. 408841

U.S. EPA Method 6020/7471A for Title-22 Metals (TTLC)

Location ID	Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SS-1C	8/29/2019	NA	2.97	NA	NA	NA	NA	NA	NA	9.06	NA	NA	NA	NA	NA	NA	NA	NA
SS-2D	8/29/2019	NA	2.12	NA	NA	NA	NA	NA	NA	6.65	NA	NA	NA	NA	NA	NA	NA	NA
SS-3C	8/29/2019	0.231 J	2.74	137	0.403 J	0.322 J	72.2	35.1	76.9	76.1	0.0753	0.0783 J	79.0	0.296 J	ND<0.162	ND<0.0994	164	553
SS-4B	8/29/2019	NA	3.88	NA	NA	NA	NA	NA	NA	13.0	NA	NA	NA	NA	NA	NA	NA	NA
SS-5B	8/29/2019	NA	3.12	NA	NA	NA	NA	NA	NA	9.89	NA	NA	NA	NA	NA	NA	NA	NA
Comparison Values based on California Maximum Background Concentration in mg/kg*		1.95	11.0	1,400	2.7	1.7	1,579	46.9	96.4	107.9	0.90	9.6	509	0.430	8.30	1.10	288	236
Comparison Values in mg/kg from Environmental Screening Levels, Table S-1, Res; SFBRWQCB, July 2019		11	0.067	15,000	1,600	910	--	420	3,100	82	13	390	15,000	390	390	0.78	390	23,000

Notes:

	Analyses performed by Pace Analytical, Mt. Juliet, Tennessee
mg/kg	Milligrams per kilogram
bgs	Below ground surface
ND<	Not detected above the method detection limit
EPA	Environmental Protection Agency
J	Estimated value above laboratory method detection limit, but below the limit for reporting
Bold	Result exceeds applicable Comparision Value
*	From Kearney Foundation of Soil Science 1996 Report "Background Concentrations of Trace and Major Elements in California Soils"
Title-22	Section of the California Code of Regulations (CCR) that regulates Environmental Health Standards for the Management of Hazardous Waste
Table S-1	Direct Exposure Human Health Risk Levels
Comm/Ind	Commercial/Industrial
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
NA	Not Analyzed
TTLC	Total Threshold Limit Concentration

APPENDIX A

LABORATORY ANALYTICAL REPORT

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

September 10, 2019

AEI Consultants - CA

Sample Delivery Group:	L1134784
Samples Received:	08/30/2019
Project Number:	408841
Description:	408841

Report To: Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page 1
Tc: Table of Contents 2
Ss: Sample Summary 3
Cn: Case Narrative 5
Sr: Sample Results 6
SS-2D L1134784-02 6
SS-3C L1134784-03 7
SS-4B L1134784-04 9
SS-5B L1134784-05 10
SS-1 COMP L1134784-06 11
SS-2 COMP L1134784-07 12
SS-3 COMP L1134784-08 13
SS-4 COMP L1134784-09 14
SS-5 COMP L1134784-10 15
SS-1C L1134784-11 16
Qc: Quality Control Summary 17
Total Solids by Method 2540 G-2011 17
Mercury by Method 7471A 20
Metals (ICPMS) by Method 6020 21
Volatile Organic Compounds (GC) by Method 8015 24
Semi-Volatile Organic Compounds (GC) by Method 8015 25
Pesticides (GC) by Method 8081 26
Gl: Glossary of Terms 28
Al: Accreditations & Locations 29
Sc: Sample Chain of Custody 30

SS-2D L1134784-02 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 10:15 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341033	1	09/06/19 16:47	09/06/19 16:58	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:27	LD	Mt. Juliet, TN

SS-3C L1134784-03 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 11:20 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1339240	1	09/04/19 12:47	09/04/19 20:36	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1340647	1.13	08/29/19 11:20	09/05/19 16:16	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1340597	1	09/05/19 19:00	09/06/19 18:18	DMW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 16:25	RP	Mt. Juliet, TN

SS-4B L1134784-04 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 11:52 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:34	LD	Mt. Juliet, TN

SS-5B L1134784-05 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 12:15 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:37	LD	Mt. Juliet, TN

SS-1 COMP L1134784-06 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 16:37	RP	Mt. Juliet, TN

SS-2 COMP L1134784-07 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:14	RP	Mt. Juliet, TN

SS-3 COMP L1134784-08 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:26	RP	Mt. Juliet, TN

SS-4 COMP L1134784-09 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:39	RP	Mt. Juliet, TN

SS-5 COMP L1134784-10 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

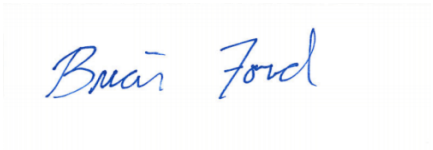
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:51	RP	Mt. Juliet, TN

SS-1C L1134784-11 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 09:14 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1342434	1	09/10/19 06:00	09/10/19 06:10	KBC	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1342428	5	09/09/19 13:57	09/09/19 16:12	LAT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.7		1	09/06/2019 16:58	WG1341033

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.12		0.144	0.577	5	09/04/2019 18:27	WG1338888
Lead	6.65		0.138	0.577	5	09/04/2019 18:27	WG1338888

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	09/06/2019 17:10	WG1341034

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0753		0.00293	0.0314	1	09/04/2019 20:36	WG1339240

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.231	J	0.165	0.523	5	09/04/2019 18:31	WG1338888
Arsenic	2.74		0.131	0.523	5	09/04/2019 18:31	WG1338888
Barium	137		0.167	1.05	5	09/04/2019 18:31	WG1338888
Beryllium	0.403	J	0.0628	0.523	5	09/04/2019 18:31	WG1338888
Cadmium	0.322	J	0.0837	0.523	5	09/04/2019 18:31	WG1338888
Chromium	72.2		0.282	1.05	5	09/04/2019 18:31	WG1338888
Cobalt	35.1		0.136	0.523	5	09/04/2019 18:31	WG1338888
Copper	76.9		0.272	1.05	5	09/04/2019 18:31	WG1338888
Lead	76.1		0.126	0.523	5	09/04/2019 18:31	WG1338888
Molybdenum	0.0783	J	0.0732	1.05	5	09/04/2019 18:31	WG1338888
Nickel	79.0		0.183	0.523	5	09/04/2019 18:31	WG1338888
Selenium	0.296	J	0.199	0.523	5	09/04/2019 18:31	WG1338888
Silver	U		0.162	0.523	5	09/04/2019 18:31	WG1338888
Thallium	U		0.0994	0.523	5	09/04/2019 18:31	WG1338888
Vanadium	164		0.0941	1.05	5	09/04/2019 18:31	WG1338888
Zinc	553		1.34	5.23	5	09/04/2019 18:31	WG1338888

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.523		0.0392	0.118	1.13	09/05/2019 16:16	WG1340647
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*09/05/2019 16:16*	WG1340647

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	1.82	J	0.767	4.18	1	09/06/2019 18:18	WG1340597
C22-C32 Hydrocarbons	12.1		1.39	4.18	1	09/06/2019 18:18	WG1340597
C32-C40 Hydrocarbons	10.1		1.39	4.18	1	09/06/2019 18:18	WG1340597
(S) o-Terphenyl	*78.4*			*18.0-148*		*09/06/2019 18:18*	WG1340597

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0209	1	09/06/2019 16:25	WG1340615
Alpha BHC	U		0.000202	0.0209	1	09/06/2019 16:25	WG1340615
Beta BHC	U		0.000317	0.0209	1	09/06/2019 16:25	WG1340615
Delta BHC	U		0.000158	0.0209	1	09/06/2019 16:25	WG1340615
Gamma BHC	U		0.000256	0.0209	1	09/06/2019 16:25	WG1340615
4,4-DDD	U		0.000172	0.0209	1	09/06/2019 16:25	WG1340615
4,4-DDE	U		0.000173	0.0209	1	09/06/2019 16:25	WG1340615
4,4-DDT	U		0.000278	0.0209	1	09/06/2019 16:25	WG1340615
Dieldrin	U		0.0000931	0.00209	1	09/06/2019 16:25	WG1340615

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.000224	0.0209	1	09/06/2019 16:25	WG1340615
Endosulfan II	U		0.000241	0.0209	1	09/06/2019 16:25	WG1340615
Endosulfan sulfate	U		0.000178	0.0209	1	09/06/2019 16:25	WG1340615
Endrin	U		0.000229	0.0209	1	09/06/2019 16:25	WG1340615
Endrin aldehyde	U		0.000253	0.0209	1	09/06/2019 16:25	WG1340615
Endrin ketone	U		0.000166	0.0209	1	09/06/2019 16:25	WG1340615
Heptachlor	U		0.000106	0.0209	1	09/06/2019 16:25	WG1340615
Heptachlor epoxide	U		0.000395	0.0209	1	09/06/2019 16:25	WG1340615
Hexachlorobenzene	U		0.000234	0.0209	1	09/06/2019 16:25	WG1340615
Methoxychlor	U		0.000277	0.0209	1	09/06/2019 16:25	WG1340615
Chlordane	U		0.0408	0.209	1	09/06/2019 16:25	WG1340615
Toxaphene	U		0.0377	0.418	1	09/06/2019 16:25	WG1340615
(S) Decachlorobiphenyl	*71.5*			*10.0-135*		*09/06/2019 16:25*	WG1340615
(S) Tetrachloro-m-xylene	*57.9*			*10.0-139*		*09/06/2019 16:25*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	09/06/2019 17:10	WG1341034

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.88		0.131	0.524	5	09/04/2019 18:34	WG1338888
Lead	13.0		0.126	0.524	5	09/04/2019 18:34	WG1338888

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	09/06/2019 17:10	WG1341034

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.12		0.132	0.527	5	09/04/2019 18:37	WG1338888
Lead	9.89		0.126	0.527	5	09/04/2019 18:37	WG1338888

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000254	0.0218	1	09/06/2019 16:37	WG1340615
Alpha BHC	U		0.000210	0.0218	1	09/06/2019 16:37	WG1340615
Beta BHC	U		0.000330	0.0218	1	09/06/2019 16:37	WG1340615
Delta BHC	U		0.000164	0.0218	1	09/06/2019 16:37	WG1340615
Gamma BHC	U		0.000267	0.0218	1	09/06/2019 16:37	WG1340615
4,4-DDD	U		0.000179	0.0218	1	09/06/2019 16:37	WG1340615
4,4-DDE	U		0.000180	0.0218	1	09/06/2019 16:37	WG1340615
4,4-DDT	U		0.000290	0.0218	1	09/06/2019 16:37	WG1340615
Dieldrin	U		0.0000969	0.00218	1	09/06/2019 16:37	WG1340615
Endosulfan I	U		0.000233	0.0218	1	09/06/2019 16:37	WG1340615
Endosulfan II	U		0.000250	0.0218	1	09/06/2019 16:37	WG1340615
Endosulfan sulfate	U		0.000185	0.0218	1	09/06/2019 16:37	WG1340615
Endrin	U		0.000238	0.0218	1	09/06/2019 16:37	WG1340615
Endrin aldehyde	U		0.000263	0.0218	1	09/06/2019 16:37	WG1340615
Endrin ketone	U		0.000173	0.0218	1	09/06/2019 16:37	WG1340615
Heptachlor	U		0.000110	0.0218	1	09/06/2019 16:37	WG1340615
Heptachlor epoxide	U		0.000412	0.0218	1	09/06/2019 16:37	WG1340615
Hexachlorobenzene	U		0.000244	0.0218	1	09/06/2019 16:37	WG1340615
Methoxychlor	U		0.000289	0.0218	1	09/06/2019 16:37	WG1340615
Chlordane	U		0.0425	0.218	1	09/06/2019 16:37	WG1340615
Toxaphene	U		0.0392	0.435	1	09/06/2019 16:37	WG1340615
(S) Decachlorobiphenyl	*102*			*10.0-135*		*09/06/2019 16:37*	WG1340615
(S) Tetrachloro-m-xylene	*77.9*			*10.0-139*		*09/06/2019 16:37*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000265	0.0227	1	09/06/2019 17:14	WG1340615
Alpha BHC	U		0.000219	0.0227	1	09/06/2019 17:14	WG1340615
Beta BHC	U		0.000344	0.0227	1	09/06/2019 17:14	WG1340615
Delta BHC	U		0.000172	0.0227	1	09/06/2019 17:14	WG1340615
Gamma BHC	U		0.000278	0.0227	1	09/06/2019 17:14	WG1340615
4,4-DDD	U		0.000186	0.0227	1	09/06/2019 17:14	WG1340615
4,4-DDE	U		0.000188	0.0227	1	09/06/2019 17:14	WG1340615
4,4-DDT	U		0.000302	0.0227	1	09/06/2019 17:14	WG1340615
Dieldrin	U		0.000101	0.00227	1	09/06/2019 17:14	WG1340615
Endosulfan I	U		0.000243	0.0227	1	09/06/2019 17:14	WG1340615
Endosulfan II	U		0.000261	0.0227	1	09/06/2019 17:14	WG1340615
Endosulfan sulfate	U		0.000193	0.0227	1	09/06/2019 17:14	WG1340615
Endrin	U		0.000249	0.0227	1	09/06/2019 17:14	WG1340615
Endrin aldehyde	U		0.000275	0.0227	1	09/06/2019 17:14	WG1340615
Endrin ketone	U		0.000181	0.0227	1	09/06/2019 17:14	WG1340615
Heptachlor	U		0.000115	0.0227	1	09/06/2019 17:14	WG1340615
Heptachlor epoxide	U		0.000430	0.0227	1	09/06/2019 17:14	WG1340615
Hexachlorobenzene	U		0.000255	0.0227	1	09/06/2019 17:14	WG1340615
Methoxychlor	U		0.000301	0.0227	1	09/06/2019 17:14	WG1340615
Chlordane	U		0.0443	0.227	1	09/06/2019 17:14	WG1340615
Toxaphene	U		0.0409	0.455	1	09/06/2019 17:14	WG1340615
(S) Decachlorobiphenyl	*95.2*			*10.0-135*		*09/06/2019 17:14*	WG1340615
(S) Tetrachloro-m-xylene	*74.3*			*10.0-139*		*09/06/2019 17:14*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000259	0.0222	1	09/06/2019 17:26	WG1340615
Alpha BHC	U		0.000215	0.0222	1	09/06/2019 17:26	WG1340615
Beta BHC	U		0.000337	0.0222	1	09/06/2019 17:26	WG1340615
Delta BHC	U		0.000168	0.0222	1	09/06/2019 17:26	WG1340615
Gamma BHC	U		0.000272	0.0222	1	09/06/2019 17:26	WG1340615
4,4-DDD	U		0.000182	0.0222	1	09/06/2019 17:26	WG1340615
4,4-DDE	U		0.000183	0.0222	1	09/06/2019 17:26	WG1340615
4,4-DDT	U		0.000296	0.0222	1	09/06/2019 17:26	WG1340615
Dieldrin	U		0.0000989	0.00222	1	09/06/2019 17:26	WG1340615
Endosulfan I	U		0.000238	0.0222	1	09/06/2019 17:26	WG1340615
Endosulfan II	U		0.000256	0.0222	1	09/06/2019 17:26	WG1340615
Endosulfan sulfate	U		0.000189	0.0222	1	09/06/2019 17:26	WG1340615
Endrin	U		0.000243	0.0222	1	09/06/2019 17:26	WG1340615
Endrin aldehyde	U		0.000269	0.0222	1	09/06/2019 17:26	WG1340615
Endrin ketone	U		0.000177	0.0222	1	09/06/2019 17:26	WG1340615
Heptachlor	U		0.000112	0.0222	1	09/06/2019 17:26	WG1340615
Heptachlor epoxide	U		0.000420	0.0222	1	09/06/2019 17:26	WG1340615
Hexachlorobenzene	U		0.000249	0.0222	1	09/06/2019 17:26	WG1340615
Methoxychlor	U		0.000295	0.0222	1	09/06/2019 17:26	WG1340615
Chlordane	U		0.0434	0.222	1	09/06/2019 17:26	WG1340615
Toxaphene	U		0.0400	0.445	1	09/06/2019 17:26	WG1340615
(S) Decachlorobiphenyl	*89.1*			*10.0-135*		*09/06/2019 17:26*	WG1340615
(S) Tetrachloro-m-xylene	*70.4*			*10.0-139*		*09/06/2019 17:26*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0209	1	09/06/2019 17:39	WG1340615
Alpha BHC	U		0.000202	0.0209	1	09/06/2019 17:39	WG1340615
Beta BHC	U		0.000317	0.0209	1	09/06/2019 17:39	WG1340615
Delta BHC	U		0.000158	0.0209	1	09/06/2019 17:39	WG1340615
Gamma BHC	U		0.000256	0.0209	1	09/06/2019 17:39	WG1340615
4,4-DDD	U		0.000172	0.0209	1	09/06/2019 17:39	WG1340615
4,4-DDE	U		0.000173	0.0209	1	09/06/2019 17:39	WG1340615
4,4-DDT	U		0.000278	0.0209	1	09/06/2019 17:39	WG1340615
Dieldrin	U		0.0000931	0.00209	1	09/06/2019 17:39	WG1340615
Endosulfan I	U		0.000224	0.0209	1	09/06/2019 17:39	WG1340615
Endosulfan II	U		0.000241	0.0209	1	09/06/2019 17:39	WG1340615
Endosulfan sulfate	U		0.000178	0.0209	1	09/06/2019 17:39	WG1340615
Endrin	U		0.000229	0.0209	1	09/06/2019 17:39	WG1340615
Endrin aldehyde	U		0.000253	0.0209	1	09/06/2019 17:39	WG1340615
Endrin ketone	U		0.000166	0.0209	1	09/06/2019 17:39	WG1340615
Heptachlor	U		0.000106	0.0209	1	09/06/2019 17:39	WG1340615
Heptachlor epoxide	U		0.000395	0.0209	1	09/06/2019 17:39	WG1340615
Hexachlorobenzene	U		0.000234	0.0209	1	09/06/2019 17:39	WG1340615
Methoxychlor	U		0.000277	0.0209	1	09/06/2019 17:39	WG1340615
Chlordane	U		0.0408	0.209	1	09/06/2019 17:39	WG1340615
Toxaphene	U		0.0377	0.418	1	09/06/2019 17:39	WG1340615
(S) Decachlorobiphenyl	*86.9*			*10.0-135*		*09/06/2019 17:39*	WG1340615
(S) Tetrachloro-m-xylene	*67.8*			*10.0-139*		*09/06/2019 17:39*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0209	1	09/06/2019 17:51	WG1340615
Alpha BHC	U		0.000202	0.0209	1	09/06/2019 17:51	WG1340615
Beta BHC	U		0.000317	0.0209	1	09/06/2019 17:51	WG1340615
Delta BHC	U		0.000158	0.0209	1	09/06/2019 17:51	WG1340615
Gamma BHC	U		0.000257	0.0209	1	09/06/2019 17:51	WG1340615
4,4-DDD	U		0.000172	0.0209	1	09/06/2019 17:51	WG1340615
4,4-DDE	U		0.000173	0.0209	1	09/06/2019 17:51	WG1340615
4,4-DDT	U		0.000279	0.0209	1	09/06/2019 17:51	WG1340615
Dieldrin	U		0.0000932	0.00209	1	09/06/2019 17:51	WG1340615
Endosulfan I	U		0.000224	0.0209	1	09/06/2019 17:51	WG1340615
Endosulfan II	U		0.000241	0.0209	1	09/06/2019 17:51	WG1340615
Endosulfan sulfate	U		0.000178	0.0209	1	09/06/2019 17:51	WG1340615
Endrin	U		0.000229	0.0209	1	09/06/2019 17:51	WG1340615
Endrin aldehyde	U		0.000253	0.0209	1	09/06/2019 17:51	WG1340615
Endrin ketone	U		0.000167	0.0209	1	09/06/2019 17:51	WG1340615
Heptachlor	U		0.000106	0.0209	1	09/06/2019 17:51	WG1340615
Heptachlor epoxide	U		0.000396	0.0209	1	09/06/2019 17:51	WG1340615
Hexachlorobenzene	U		0.000235	0.0209	1	09/06/2019 17:51	WG1340615
Methoxychlor	U		0.000278	0.0209	1	09/06/2019 17:51	WG1340615
Chlordane	U		0.0408	0.209	1	09/06/2019 17:51	WG1340615
Toxaphene	U		0.0377	0.419	1	09/06/2019 17:51	WG1340615
(S) Decachlorobiphenyl	*85.9*			*10.0-135*		*09/06/2019 17:51*	WG1340615
(S) Tetrachloro-m-xylene	*67.6*			*10.0-139*		*09/06/2019 17:51*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	09/10/2019 06:10	WG1342434

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.97		0.144	0.575	5	09/09/2019 16:12	WG1342428
Lead	9.06		0.138	0.575	5	09/09/2019 16:12	WG1342428

Method Blank (MB)

(MB) R3448117-1 09/06/19 16:58

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1134780-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1134780-01 09/06/19 16:58 • (DUP) R3448117-3 09/06/19 16:58

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.9	75.5	1	0.594		10

Laboratory Control Sample (LCS)

(LCS) R3448117-2 09/06/19 16:58

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

Method Blank (MB)

(MB) R3448118-1 09/06/19 17:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1134790-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1134790-01 09/06/19 17:10 • (DUP) R3448118-3 09/06/19 17:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.1	93.9	1	0.235		10

Laboratory Control Sample (LCS)

(LCS) R3448118-2 09/06/19 17:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3449022-1 09/10/19 06:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1134925-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1134925-03 09/10/19 06:10 • (DUP) R3449022-3 09/10/19 06:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.9	82.6	1	0.793		10

Laboratory Control Sample (LCS)

(LCS) R3449022-2 09/10/19 06:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3447324-1 09/04/19 20:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3447324-2 09/04/19 20:31 • (LCSD) R3447324-3 09/04/19 20:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.509	0.500	102	100	80.0-120			1.69	20

L1134784-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134784-03 09/04/19 20:36 • (MS) R3447324-4 09/04/19 20:39 • (MSD) R3447324-5 09/04/19 20:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.523	0.0753	0.590	0.586	98.5	97.6	1	75.0-125			0.745	20

Method Blank (MB)

(MB) R3447291-8 09/04/19 17:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.158	0.500
Arsenic	U		0.125	0.500
Barium	U		0.160	1.00
Beryllium	U		0.0600	0.500
Cadmium	U		0.0800	0.500
Chromium	U		0.270	1.00
Cobalt	U		0.130	0.500
Copper	U		0.260	1.00
Lead	U		0.120	0.500
Molybdenum	U		0.0700	1.00
Nickel	U		0.175	0.500
Selenium	U		0.190	0.500
Silver	U		0.155	0.500
Thallium	U		0.0950	0.500
Vanadium	U		0.0900	1.00
Zinc	U		1.28	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3447291-9 09/04/19 17:03 • (LCSD) R3447291-10 09/04/19 17:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	111	114	111	114	80.0-120			2.98	20
Arsenic	100	93.4	96.3	93.4	96.3	80.0-120			3.09	20
Barium	100	98.7	103	98.7	103	80.0-120			4.24	20
Beryllium	100	97.2	99.6	97.2	99.6	80.0-120			2.45	20
Cadmium	100	99.0	101	99.0	101	80.0-120			2.45	20
Chromium	100	97.9	101	97.9	101	80.0-120			3.22	20
Cobalt	100	99.0	102	99.0	102	80.0-120			3.27	20
Copper	100	90.3	92.3	90.3	92.3	80.0-120			2.15	20
Lead	100	96.8	99.2	96.8	99.2	80.0-120			2.46	20
Molybdenum	100	99.4	102	99.4	102	80.0-120			2.58	20
Nickel	100	98.8	103	98.8	103	80.0-120			4.02	20
Selenium	100	98.1	99.6	98.1	99.6	80.0-120			1.53	20
Silver	20.0	20.0	20.7	100	104	80.0-120			3.31	20
Thallium	100	95.8	100	95.8	100	80.0-120			4.35	20
Vanadium	100	96.3	99.3	96.3	99.3	80.0-120			3.09	20
Zinc	100	98.3	102	98.3	102	80.0-120			3.51	20

L1134754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134754-01 09/04/19 17:10 • (MS) R3447291-13 09/04/19 17:20 • (MSD) R3447291-14 09/04/19 17:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	23.1	1.03	72.1	66.1	61.5	56.3	5	75.0-125	J6	J6	8.67	20
Arsenic	23.1	21.9	107	112	74.1	78.0	5	75.0-125	J6		4.16	20
Barium	23.1	65.1	158	169	80.1	90.2	5	75.0-125			7.13	20
Beryllium	23.1	1.28	102	107	86.8	91.8	5	75.0-125			5.60	20
Cadmium	23.1	0.835	109	111	93.9	95.3	5	75.0-125			1.50	20
Chromium	23.1	19.4	117	124	84.6	90.3	5	75.0-125			5.45	20
Cobalt	23.1	9.83	110	111	86.5	87.7	5	75.0-125			1.30	20
Copper	23.1	13.3	105	106	79.6	80.0	5	75.0-125			0.419	20
Lead	23.1	52.3	153	156	87.4	89.5	5	75.0-125			1.60	20
Molybdenum	23.1	2.38	109	110	92.5	93.2	5	75.0-125			0.827	20
Nickel	23.1	25.5	122	119	83.7	81.1	5	75.0-125			2.49	20
Selenium	23.1	0.827	103	109	88.1	93.8	5	75.0-125			6.20	20
Silver	4.62	U	22.1	22.5	95.6	97.4	5	75.0-125			1.82	20
Thallium	23.1	0.622	106	106	91.0	91.0	5	75.0-125			0.00125	20
Vanadium	23.1	51.3	140	145	76.6	81.0	5	75.0-125			3.60	20
Zinc	23.1	72.7	157	168	72.7	82.6	5	75.0-125	J6		7.07	20

Method Blank (MB)

(MB) R3448787-1 09/09/19 15:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Arsenic	U		0.125	0.500
Lead	U		0.120	0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3448787-2 09/09/19 16:03 • (LCSD) R3448787-3 09/09/19 16:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Arsenic	100	96.7	94.8	96.7	94.8	80.0-120			2.00	20
Lead	100	96.2	95.1	96.2	95.1	80.0-120			1.20	20

L1134784-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134784-11 09/09/19 16:12 • (MS) R3448787-6 09/09/19 16:26 • (MSD) R3448787-7 09/09/19 16:30

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	23.0	2.97	94.6	104	79.7	87.6	5	75.0-125			9.13	20
Lead	23.0	9.06	114	120	91.3	96.4	5	75.0-125			5.04	20

Method Blank (MB)

(MB) R3447908-2 09/05/19 11:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	U		0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3447908-1 09/05/19 10:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	5.07	92.1	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

Method Blank (MB)

(MB) R3447844-1 09/06/19 01:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*76.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3447844-2 09/06/19 01:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	17.7	70.8	50.0-150	
C12-C22 Hydrocarbons	25.0	18.0	72.0	50.0-150	
(S) o-Terphenyl			*77.0*	*18.0-148*	

L1134328-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134328-24 09/06/19 18:32 • (MS) R3447941-1 09/06/19 18:46 • (MSD) R3447941-2 09/06/19 19:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	25.9	16.7	38.3	37.7	83.6	81.2	5	50.0-150			1.63	20
C12-C22 Hydrocarbons	25.9	4.83	25.0	24.4	96.8	94.4	5	50.0-150			2.51	20
(S) o-Terphenyl					*77.8*	*67.7*		*18.0-148*				

Sample Narrative:

OS: Diluted due to extract viscosity

Method Blank (MB)

(MB) R3448167-1 09/06/19 15:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*107*			*10.0-135*
(S) Tetrachloro-m-xylene	*83.5*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3448167-2 09/06/19 15:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0621	93.2	34.0-136	
Alpha BHC	0.0666	0.0659	98.9	34.0-139	
Beta BHC	0.0666	0.0615	92.3	34.0-133	
Delta BHC	0.0666	0.0656	98.5	34.0-135	
Gamma BHC	0.0666	0.0668	100	34.0-136	
4,4-DDD	0.0666	0.0652	97.9	33.0-141	
4,4-DDE	0.0666	0.0662	99.4	34.0-134	
4,4-DDT	0.0666	0.0722	108	30.0-143	
Dieldrin	0.0666	0.0631	94.7	35.0-137	
Endosulfan I	0.0666	0.0637	95.6	34.0-134	

Laboratory Control Sample (LCS)

(LCS) R3448167-2 09/06/19 15:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0636	95.5	35.0-132	
Endosulfan sulfate	0.0666	0.0654	98.2	35.0-132	
Endrin	0.0666	0.0635	95.3	34.0-137	
Endrin aldehyde	0.0666	0.0557	83.6	23.0-121	
Endrin ketone	0.0666	0.0760	114	35.0-144	
Heptachlor	0.0666	0.0698	105	36.0-141	
Heptachlor epoxide	0.0666	0.0638	95.8	36.0-134	
Hexachlorobenzene	0.0666	0.0680	102	33.0-129	
Methoxychlor	0.0666	0.0693	104	28.0-150	
(S) Decachlorobiphenyl			*119*	*10.0-135*	
(S) Tetrachloro-m-xylene			*95.5*	*10.0-139*	

L1134784-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134784-06 09/06/19 16:37 • (MS) R3448167-3 09/06/19 16:49 • (MSD) R3448167-4 09/06/19 17:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0725	U	0.0469	0.0557	64.7	76.9	1	20.0-135			17.2	37
Alpha BHC	0.0725	U	0.0502	0.0592	69.2	81.7	1	27.0-140			16.5	35
Beta BHC	0.0725	U	0.0479	0.0561	66.1	77.3	1	23.0-141			15.7	37
Delta BHC	0.0725	U	0.0478	0.0569	65.9	78.5	1	21.0-138			17.5	35
Gamma BHC	0.0725	U	0.0510	0.0602	70.3	83.0	1	27.0-137			16.7	36
4,4-DDD	0.0725	U	0.0501	0.0594	69.1	82.0	1	15.0-152			17.1	39
4,4-DDE	0.0725	U	0.0511	0.0601	70.4	82.9	1	10.0-152			16.3	40
4,4-DDT	0.0725	U	0.0582	0.0678	80.3	93.5	1	10.0-151			15.2	40
Dieldrin	0.0725	U	0.0483	0.0572	66.7	78.8	1	17.0-145			16.7	37
Endosulfan I	0.0725	U	0.0482	0.0577	66.5	79.6	1	20.0-137			17.9	36
Endosulfan II	0.0725	U	0.0487	0.0575	67.1	79.3	1	15.0-141			16.6	37
Endosulfan sulfate	0.0725	U	0.0505	0.0592	69.7	81.7	1	15.0-143			15.9	38
Endrin	0.0725	U	0.0490	0.0587	67.6	80.9	1	19.0-143			18.0	37
Endrin aldehyde	0.0725	U	0.0471	0.0547	65.0	75.4	1	10.0-139			14.8	40
Endrin ketone	0.0725	U	0.0576	0.0678	79.4	93.5	1	17.0-149			16.3	38
Heptachlor	0.0725	U	0.0519	0.0623	71.6	85.9	1	22.0-138			18.1	37
Heptachlor epoxide	0.0725	U	0.0490	0.0578	67.6	79.7	1	22.0-138			16.5	36
Hexachlorobenzene	0.0725	U	0.0520	0.0621	71.8	85.6	1	25.0-126			17.6	35
Methoxychlor	0.0725	U	0.0545	0.0634	75.2	87.4	1	10.0-159			15.0	40
(S) Decachlorobiphenyl					*80.2*	*90.1*		*10.0-135*				
(S) Tetrachloro-m-xylene					*61.9*	*71.5*		*10.0-139*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

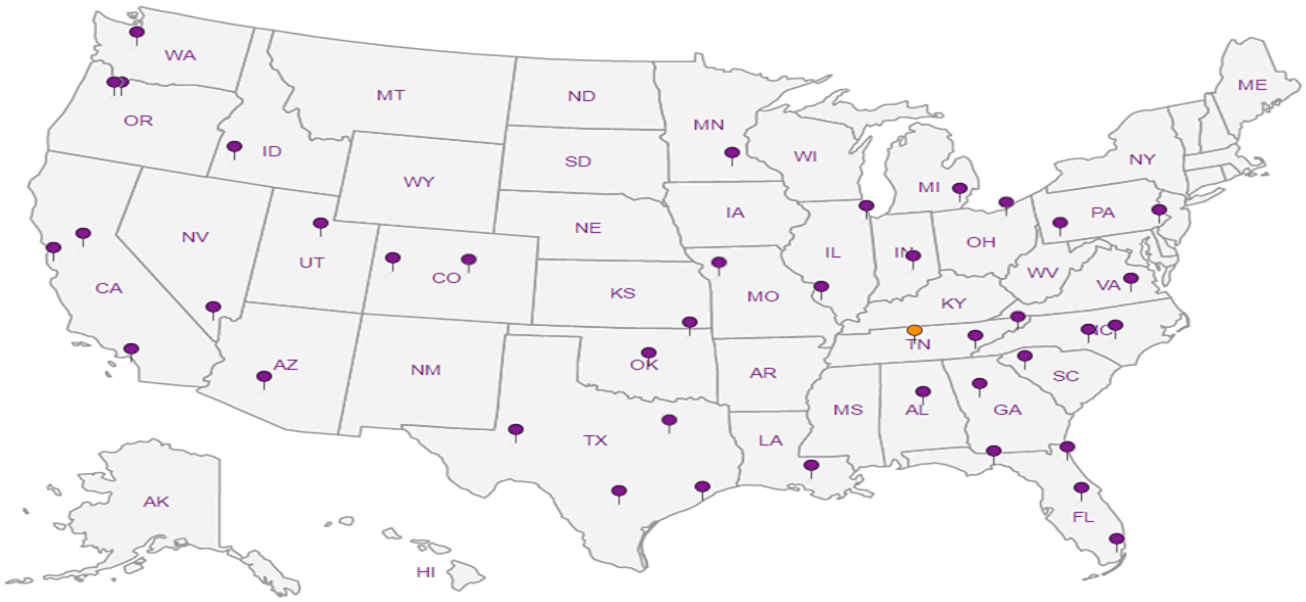
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project: 408841 Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028 Fax:

Client Project #: 408841

Lab Project #: AEICONWCCA-SMITH

Collected by (print):

Site/Facility ID #

P.O. #: 204678

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784

Table #

Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	Composite to 1 Sample	Remarks	Sample # (lab only)
SS-1-A		SS	6"	8/29/19	0914	2									06
SS-1-B		SS			0943	2									06
SS-1-C		SS			1023	2	X								06
SS-1-D		SS			1008	2									-01 06
SS-2A		SS			1010	2									06
SS-2B		SS			1015	2									07
SS-2C		SS			1056	2									07
SS-2D		SS			1101	2	X								07
SS-2A		SS				2									02 07
SS-3B		SS				2									08

(1) (2) (3)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Composite into 1 Sample where indicated

pH ___ Temp ___ Flow ___ Other ___

Samples returned via: ___ UPS X FedEx ___ Courier ___

Tracking # 4510 1650 1961-50

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by: (Signature)	Date: 8/29/19	Time: 1:25 PM	Received by: (Signature)	Trip Blank Received: Yes / No; HCL / MeOH; TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 5.7 -.1 = 5.6 Bottles Received: 41
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-30-19 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028
Fax:

Client Project # 408841

Lab Project # AEICONWCCA-SMITH

Collected by (print):

P.O.# 204678

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Date Results Needed

Quote #

Chain of Custody Page 2 of 2

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784

Table #

Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	LMW Hydrocarbon Surrogates (SV)	Low Levels	3 Composite	Remarks	Sample # (lab only)
SS-3C		SS	6	8/29/19	11:20	7		X	X	X		X			3		03
SS-3D		SS	1	1	1135	2						2			X		08
SS-4A		SS			1141	2						2					09
SS-4B		SS			1152	2	X					2					04
SS-4C		SS			1201	2						2					09
SS-5A		SS			1206	2						2					09
SS-5B		SS			1215	2	X					2					09
SS-5C	V	SS	V	V	1225	2						2					05
		SS															10
		SS															
		SS															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: 3C-Discrete OCP Analysis
3A/B/D - 3Pt OCP Composite

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 4510 1650 1961-50

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No (HCL / MeoH) TBR	If preservation required by Login: Date/Time
	8/29/19	1:25 Pm		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				5.7-.1=5.6 41	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				8-30-19 9:00	

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project 408841 Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028
Fax:

Client Project # 4088411

Lab Project # AEICONWCCA-SMITH

Collected by (print): A. Borges

Site/Facility ID #

P.O. # 204678

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	Remarks	Sample # (lab only)
SS-1-A		SS	6"	8/29/19	939	2								
SS-1-B		SS			928	2								
SS-1-C		SS			914	2								
SS-1-D		SS			947	2								
SS-2A		SS			1023	2								
SS-2B		SS			1008	2								
SS-2C		SS			1040	2								
SS-2D		SS			1015	2								
SS-3A		SS			1056	2								
SS-3B		SS			1101	2								

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784
Ta H149
Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4510 1650 1961-50

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	8/29/19	1:25 PM		1	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.5°C 5.7-1=5.6	Bottles Received: 41
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-30-19	Time: 9:10

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028
Fax:

Client Project # 408841

Lab Project # AEICONWCCA-SMITH

Collected by (print): A. Borges

Site/Facility ID #

P.O. # 204678

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784

Table #

Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	Waiting on Supervisor for tests				Remarks	Sample # (lab only)
SS-3C		SS	6"	8/29/19	11:20	7												
SS-3D		SS			1135	2												
SS-4A		SS			1141	2												
SS-4B		SS			1152	2												
SS-4C		SS			1201	2												
SS-5A		SS			1206	2												
SS-5B		SS			1215	2												
SS-5C		SS			1225	2												
		SS																
		SS																

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4510 1650 1961 -50

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	8/29/19	1:25 pm		1
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: A5BF °C 5.7-.1=5.6 Bottles Received: 41
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-30-19 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Appendix C -

Regulatory Records Documentation (with EDR Database Searches)

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5957509.2s
February 03, 2020

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	58
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MITCHELL CANYON ROAD
CLAYTON, CA 94517

COORDINATES

Latitude (North):	37.9352440 - 37° 56' 6.87''
Longitude (West):	121.9439200 - 121° 56' 38.11''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592806.1
UTM Y (Meters):	4198950.5
Elevation:	493 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
MITCHELL CANYON ROAD
CLAYTON, CA 94517

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1		5849 MITCHELL CANYON	RCRA NonGen / NLR	Lower	454, 0.086, NE
A2	ZACK & KIKI TURNIN	1205 AMARANTH DR	RCRA NonGen / NLR	Lower	1057, 0.200, NNW
A3		1211 AMARANTH WAY	RCRA NonGen / NLR	Lower	1141, 0.216, NNW
4	MICHAEL SIBBITT	890 COACHMAN PLACE	RCRA NonGen / NLR	Lower	1150, 0.218, SE
5		1215 AMARANTH WAY	RCRA NonGen / NLR	Lower	1187, 0.225, NNW
6	CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	MINES	Higher	1242, 0.235, South
7	CEMEX	515 MITCHELL CANYON	LUST, AST, CERS HAZ WASTE, SWEEPS UST, CERS TANKS,	Higher	1404, 0.266, SSW
8	KAISER SAND & GRAVEL	2484 PINE HOLLOW RD	LUST, HIST CORTESE, CERS	Lower	2433, 0.461, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls

Federal ERNS list

ERNS Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST Leaking Underground Storage Tanks on Indian Land
CPS-SLIC Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
UST Active UST Facilities
AST Aboveground Petroleum Storage Tank Facilities
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP Voluntary Cleanup Program Properties
INDIAN VCP Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT Waste Management Unit Database
SWRCY Recycler Database
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory

IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
CERS HAZ WASTE ---------- CERS HAZ WASTE
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST ---------- SWEEPS UST Listing
HIST UST ---------- Hazardous Substance Storage Container Database
CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks
CA FID UST ---------- Facility Inventory Database

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CHMIRS ---------- California Hazardous Material Incident Report System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data

COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
CONTRA COSTA CO. SITE LIST	Site List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***7***	***15***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 09/09/2019
Status: Completed - Case Closed
Facility Id: 07-0475
Facility Status: Case Closed
Global Id: T0601300439
date9: 1/15/1997

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***8***	***54***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 09/09/2019
Status: Completed - Case Closed
Facility Id: 07-0595

Facility Status: Case Closed
Global Id: T0601300548
date9: 3/26/1997

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported EPA ID:: CAC003037185	5849 MITCHELL CANYON	NE 0 - 1/8 (0.086 mi.)	1	9
ZACK & KIKI TURNIN EPA ID:: CAC002994440	1205 AMARANTH DR	NNW 1/8 - 1/4 (0.200 mi.)	A2	10
Not reported EPA ID:: CAC003018221	1211 AMARANTH WAY	NNW 1/8 - 1/4 (0.216 mi.)	A3	11
MICHAEL SIBBITT EPA ID:: CAC002967480	890 COACHMAN PLACE	SE 1/8 - 1/4 (0.218 mi.)	4	12
Not reported EPA ID:: CAC003033922	1215 AMARANTH WAY	NNW 1/8 - 1/4 (0.225 mi.)	5	13

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX Reg Id: 07-0475	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***7***	***15***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL Reg Id: 07-0595	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***8***	***54***

EXECUTIVE SUMMARY

MINES: A listing of mine site locations from the Office of Mine Reclamation.

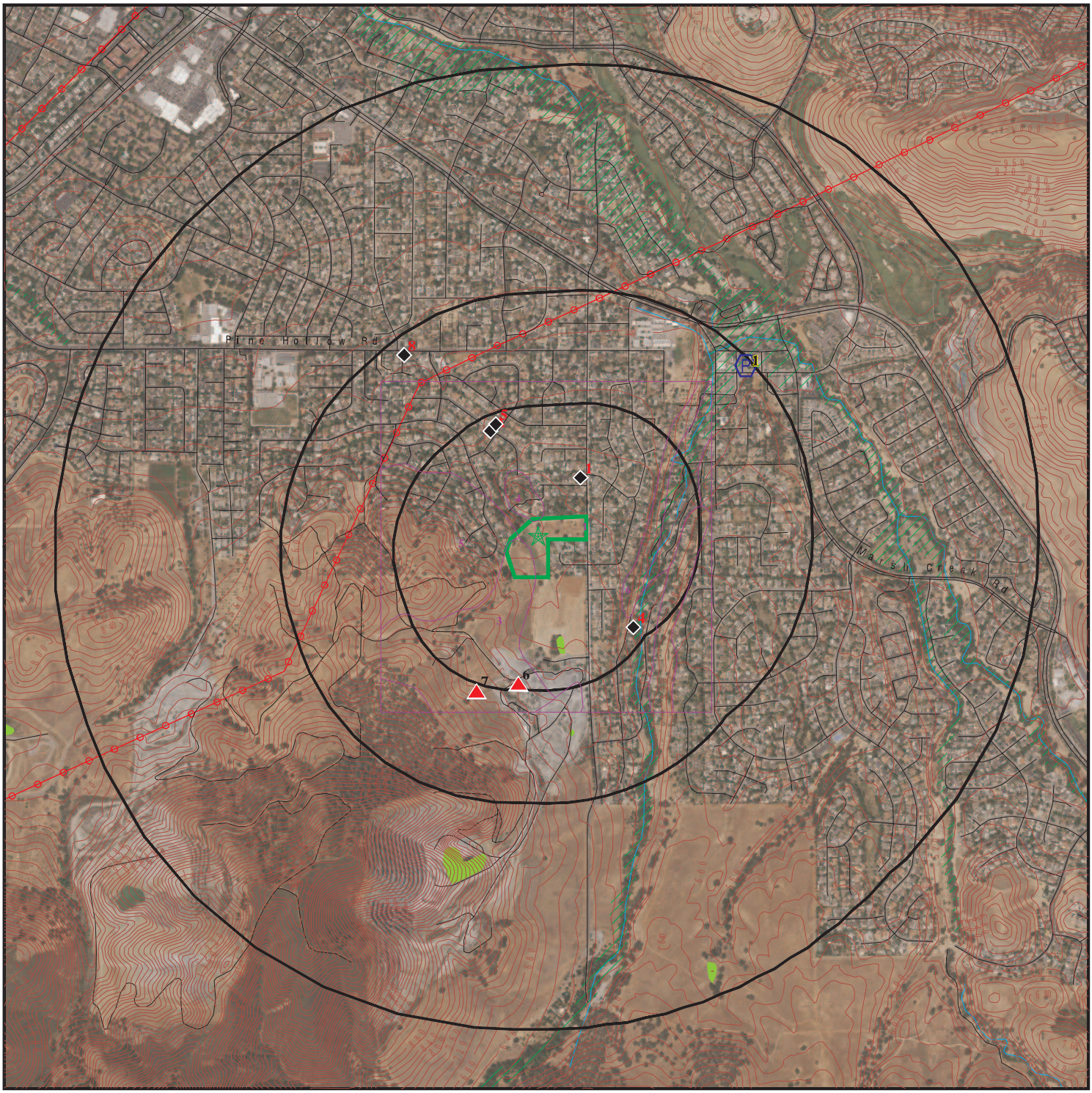
A review of the MINES list, as provided by EDR, and dated 09/09/2019 has revealed that there is 1 MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	S 1/8 - 1/4 (0.235 mi.)	6	15

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5957509.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

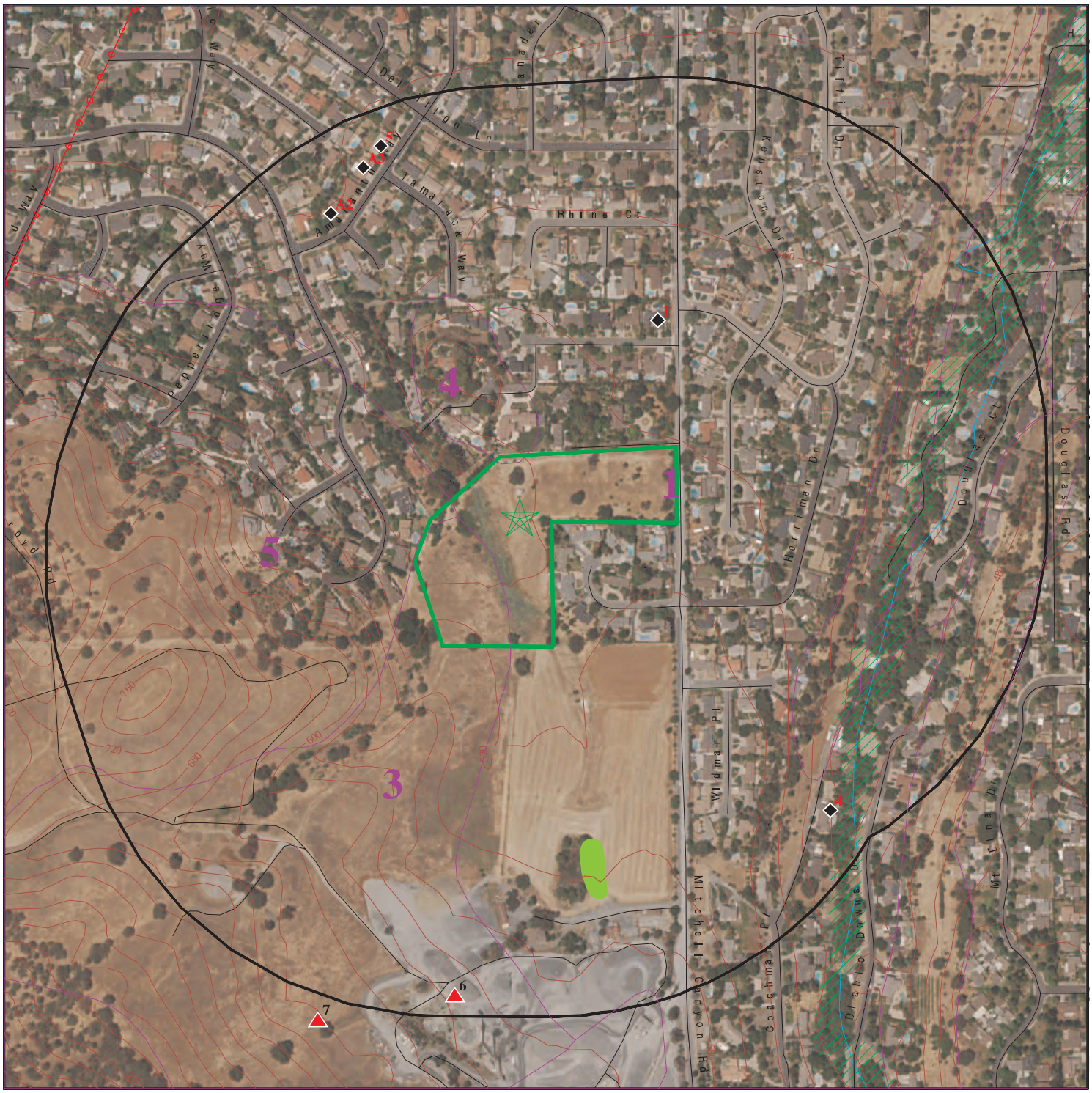
N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
		INQUIRY #:	5957509.2s
LAT/LONG:	37.935244 / 121.94392	DATE:	February 03, 2020 1:26 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5957509.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
		INQUIRY #:	5957509.2s
LAT/LONG:	37.935244 / 121.94392	DATE:	February 03, 2020 1:29 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	4	NR	NR	NR	5
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	1	NR	NR	NR	1
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
CONTRA COSTA CO. SITE LIST	0.250		0	0	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	1	5	4	0	0	10

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NE
< 1/8
0.086 mi.
454 ft.

5849 MITCHELL CANYON CT
CLAYTON, CA 94517

RCRA NonGen / NLR **1025856827**
CAC003037185

Relative:
Lower

Actual:
490 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-10-04 00:00:00.0
Facility name:	Not reported
Facility address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517-1334
EPA ID:	CAC003037185
Contact:	TERRI HIGHSMITH
Contact address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517-1334
Contact country:	Not reported
Contact telephone:	213-399-9292
Contact email:	HAYWARD.RECEPTIONIST@SYNERGYCOMPANIES.OR
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	TERRI HIGHSMITH
Owner/operator address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	213-399-9292
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	TERRI HIGHSMITH
Owner/operator address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	213-399-9292
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Not reported
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

(Continued) **1025856827**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

A2 **ZACK & KIKI TURNIN** **RCRA NonGen / NLR** **1024774518**
NNW **1205 AMARANTH DR** **CAC002994440**
1/8-1/4 **CONCORD, CA 94521**
0.200 mi.
1057 ft. **Site 1 of 2 in cluster A**

Relative:
Lower

Actual:
463 ft.

RCRA NonGen / NLR:

Date form received by agency:	2018-12-27 00:00:00.0
Facility name:	ZACK & KIKI TURNIN
Facility address:	1205 AMARANTH DR CONCORD, CA 94521
EPA ID:	CAC002994440
Contact:	ZACK & KIKI TURNIN
Contact address:	1205 AMARANTH DR CONCORD, CA 94521
Contact country:	Not reported
Contact telephone:	925-914-1336
Contact email:	ELIZABETH.GARCIA@SYNERGYCOMPANIES.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

ZACK & KIKI TURNIN (Continued) **1024774518**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Violation Status: No violations found

A3 **RCRA NonGen / NLR** **1025838625**
NNW **1211 AMARANTH WAY** **CAC003018221**
1/8-1/4 **CONCORD, CA 94521**
0.216 mi.
1141 ft. **Site 2 of 2 in cluster A**

Relative:
Lower

Actual:
464 ft.

RCRA NonGen / NLR:
- Date form received by agency: 2019-06-05 00:00:00.0
- Facility name: Not reported
- Facility address: 1211 AMARANTH WAY CONCORD, CA 94521
- EPA ID: CAC003018221
- Contact: KENNETH PAARDEKOOPER
- Contact address: 1211 AMARANTH WAY CONCORD, CA 94521
- Contact country: Not reported
- Contact telephone: 925-490-3854
- Contact email: MELISA@ENV-REM.COM
- EPA Region: 09
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: KENNETH PAARDEKOOPER
- Owner/operator address: 1211 AMARANTH WAY CONCORD, CA 94521
- Owner/operator country: Not reported
- Owner/operator telephone: 925-490-3854
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Other
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: KENNETH PAARDEKOOPER
- Owner/operator address: 1211 AMARANTH WAY CONCORD, CA 94521

(Continued) **1025838625**

Owner/operator country: Not reported
Owner/operator telephone: 925-490-3854
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

---

4 **MICHAEL SIBBITT** **RCRA NonGen / NLR** **1024747703**
SE **890 COACHMAN PLACE** **CAC002967480**
1/8-1/4 **CLAYTON, CA 94517**
0.218 mi.
1150 ft.

Relative:
Lower

Actual:
462 ft.

RCRA NonGen / NLR:
Date form received by agency: 2018-06-20 00:00:00.0
Facility name: MICHAEL SIBBITT
Facility address: 890 COACHMAN PLACE
CLAYTON, CA 94517
EPA ID: CAC002967480
Contact: MICHAEL SIBBITT
Contact address: 890 COACHMAN PLACE
CLAYTON, CA 94517
Contact country: Not reported
Contact telephone: 925-323-8667
Contact email: NICOLE@ENV-REM.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MICHAEL SIBBITT
Owner/operator address: 890 COACHMAN PLACE
CLAYTON, CA 94517
Owner/operator country: Not reported
Owner/operator telephone: 925-323-8667
Owner/operator email: Not reported

MICHAEL SIBBITT (Continued) **1024747703**

Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	MICHAEL SIBBITT
Owner/operator address:	890 COACHMAN PLACE CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	925-323-8667
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

5 **RCRA NonGen / NLR** **1025853705**
NNW **1215 AMARANTH WAY** **CAC003033922**
1/8-1/4 **CONCORD, CA 94521**
0.225 mi.
1187 ft.

Relative:
Lower

Actual:
465 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-09-13 00:00:00.0
Facility name:	Not reported
Facility address:	1215 AMARANTH WAY CONCORD, CA 94521
EPA ID:	CAC003033922
Contact:	AMY CESARIN
Contact address:	1215 AMARANTH WAY CONCORD, CA 94521
Contact country:	Not reported
Contact telephone:	650-796-2189
Contact email:	SHACARRAHENDERSON@ALLIANCE-ENVIRO.COM
EPA Region:	09

(Continued) **1025853705**

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: AMY CESARIN
Owner/operator address: 1215 AMARANTH WAY
CONCORD, CA 94521
Owner/operator country: Not reported
Owner/operator telephone: 650-796-2189
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AMY CESARIN
Owner/operator address: 1215 AMARANTH WAY
CONCORD, CA 94521
Owner/operator country: Not reported
Owner/operator telephone: 650-796-2189
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Not reported
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

6
South
1/8-1/4
0.235 mi.
1242 ft.

CEMEX CLAYTON QUARRY
515 MITCHELL CANYON ROAD
, CA

MINES **S117661278**
N/A

Relative:
Higher

Actual:
595 ft.

MINES:

Name:	CEMEX CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CA
Latitude:	37.930556
Longitude:	-121.944722
Lead Agency identification code:	7
Lead Agency name:	County of Contra Costa
Year of the operator supplied annual report:	2017
Type of report submitted by operator:	2
Number of acres disturbed by the mine:	130
Status of mining operation:	ACTIVE
Status of mine reclamation:	RECLAMATION IN PROGRESS
Mine operator:	CEMEX CONSTRUCTION MATERIALS PACIFIC
Operator Address:	1764 SKYWAY
Operator City, State, Zip:	CHICO, CA 95928
Operator County:	Not reported
Mine owner:	CEMEX
Owner Address:	5180 GOLDEN FOOTHILL PARKWAY, SUITE 220
Owner City, State, Zip:	EL DORADO HILLS, CA 95762
Owner County:	Not reported
Reclamation plan identification number:	Not reported
Primary product produced by the mine:	SAND AND GRAVEL
Other products produced by the mine:	Not reported
Type of mining utilized by mine:	PLANT OR MILL,QUARRY
Conditional use permit identification number:	LUP2054-81
Number of acres permitted for mining disturbance:	437
Total amount of funds posted by the mine for reclamation:	4730408
Financial Assurance Cost Estimate for reclamation:	5645447

7
SSW
1/4-1/2
0.266 mi.
1404 ft.

CEMEX
515 MITCHELL CANYON RD
CLAYTON, CA 94517

LUST **S105023307**
AST **N/A**
CERS HAZ WASTE
SWEEPS UST
CERS TANKS
EMI
HIST CORTESE
NPDES
CONTRA COSTA CO. SITE LIST
CIWQS
CERS

Relative:
Higher

Actual:
643 ft.

LUST:

Name:	RMC LONESTAR
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300439
Global Id:	T0601300439
Latitude:	37.932159
Longitude:	-121.940987
Status:	Completed - Case Closed
Status Date:	01/15/1997

CEMEX (Continued) **S105023307**

Case Worker: KEB
RB Case Number: 07-0475
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: 11077
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0601300439
Contact Type: Regional Board Caseworker
Contact Name: KEVIN BROWN
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: kebrown@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300439
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Stopped

Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Reported

Global Id: T0601300439
Action Type: ENFORCEMENT
Date: 01/14/1996
Action: 13267 Requirement

Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Discovery

LUST:
Global Id: T0601300439
Status: Open - Case Begin Date
Status Date: 06/27/1990

Global Id: T0601300439
Status: Open - Site Assessment
Status Date: 05/10/1994

CEMEX (Continued) **S105023307**

Global Id: T0601300439
Status: Completed - Case Closed
Status Date: 01/15/1997

LUST REG 2:
Region: 2
Facility Id: 07-0475
Facility Status: Case Closed
Case Number: 11077
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 5/10/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AST:
Name: CEMEX CONSTRUCTION MATERIALS PACIFIC LLC
Address: 515 MITCHELL CANYON RD
City/Zip: CLAYTON,
Certified Unified Program Agencies: Contra Costa
Owner: Not reported
Total Gallons: 11,500
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

Name: CEMEX
Address: 515 MITCHELL CANYON RD

CEMEX (Continued) **S105023307**

City/Zip:	CLAYTON,94517
Certified Unified Program Agencies:	Not reported
Owner:	CEMEX Construction Materials Pacific, LLC
Total Gallons:	Not reported
CERSID:	10005676
Facility ID:	07-000-711077
Business Name:	CEMEX Construction Materials Pacific, LLC
Phone:	925-672-4900
Fax:	925-672-1845
Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Mailing Address City:	El Dorado Hills
Mailing Address State:	CA
Mailing Address Zip Code:	95762
Operator Name:	CEMEX Construction Materials Pacific, LLC
Operator Phone:	925-672-4900
Owner Phone:	916-941-2800
Owner Mail Address:	5180 Golden Foothill Parkway, Suite 200
Owner State:	CA
Owner Zip Code:	95762
Owner Country:	United States
Property Owner Name:	CEMEX Construction Materials Pacific, LLC
Property Owner Phone:	916-941-2800
Property Owner Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Property Owner City:	El Dorado Hills
Property Owner Stat :	CA
Property Owner Zip Code:	95762
Property Owner Country:	United States
EPAID:	CAL000317868

CERS HAZ WASTE:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	10005676
CERS Description:	Hazardous Waste Generator

SWEEPS UST:

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL

CEMEX (Continued) **S105023307**

Number Of Tanks: 3

Name: RMC LONE STAR CLAYTON PLANT
Address: 515 MITCHELL CANYON RD
City: CLAYTON
Status: Not reported
Comp Number: 11077
Number: Not reported
Board Of Equalization: 44-002167
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-011077-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Name: RMC LONE STAR CLAYTON PLANT
Address: 515 MITCHELL CANYON RD
City: CLAYTON
Status: Not reported
Comp Number: 11077
Number: Not reported
Board Of Equalization: 44-002167
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-011077-000003
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

CERS TANKS:
Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 103985
CERS ID: 10005676
CERS Description: Aboveground Petroleum Storage

EMI:
Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 1999
County Code: 7

CEMEX (Continued) **S105023307**

Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1442
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2000
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1442
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2001
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1442
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD

CEMEX (Continued) **S105023307**

City,State,Zip:	CLAYTON, CA 94517
Year:	2002
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2003
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2004
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.09
Reactive Organic Gases Tons/Yr:	0.0794526
Carbon Monoxide Emissions Tons/Yr:	0.176
NOX - Oxides of Nitrogen Tons/Yr:	0.807
SOX - Oxides of Sulphur Tons/Yr:	0.013
Particulate Matter Tons/Yr:	22.963
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11.3425397

CEMEX (Continued) **S105023307**

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2005
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.028
Reactive Organic Gases Tons/Yr:	.0275772
Carbon Monoxide Emissions Tons/Yr:	.005
NOX - Oxides of Nitrogen Tons/Yr:	.021
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	26.619
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.1166714

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2006
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2007
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014

CEMEX (Continued) **S105023307**

Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594
Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2008
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.083
Reactive Organic Gases Tons/Yr:	.0735957
Carbon Monoxide Emissions Tons/Yr:	.153
NOX - Oxides of Nitrogen Tons/Yr:	.704
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	42.965
Part. Matter 10 Micrometers and Smllr Tons/Yr:	20.9233914
Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2009
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.2999999999999995E-2
Reactive Organic Gases Tons/Yr:	6.5228700000000001E-2
Carbon Monoxide Emissions Tons/Yr:	0.14299999999999999
NOX - Oxides of Nitrogen Tons/Yr:	0.65700000000000003
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22.151155737704901
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.9822554
Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2010
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.5000000000000002E-2
Reactive Organic Gases Tons/Yr:	0.0585351

CEMEX (Continued) **S105023307**

Carbon Monoxide Emissions Tons/Yr:	0.11700000000000001
NOX - Oxides of Nitrogen Tons/Yr:	0.54000000000000004
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	36.822959016393398
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.458028899999999

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2011
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2012
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	20.570060313
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.435

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2013
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported

CEMEX (Continued) **S105023307**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.026
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	21.046
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.523

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2014
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.02634999
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18.464724282
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.232362244

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2015
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.01834999
Reactive Organic Gases Tons/Yr:	0.01835
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	16.365857189
Part. Matter 10 Micrometers and Smllr Tons/Yr:	8.182928511

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2016
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA

CEMEX (Continued) **S105023307**

SIC Code: 1422
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.018349992
Reactive Organic Gases Tons/Yr: 0.018349992
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 15.49322988
Part. Matter 10 Micrometers and Smllr Tons/Yr: 7.746615023

Name: CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2017
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1422
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.018349992
Reactive Organic Gases Tons/Yr: 0.018349992
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 14.681012878
Part. Matter 10 Micrometers and Smllr Tons/Yr: 7.34050652

HIST CORTESE:
edr_fname: RMC LONESTAR
edr_fadd1: 515 MITCHELL CNYN
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0475

NPDES:
Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 181849
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 07I009447
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported

CEMEX (Continued) **S105023307**

Effective Date Of Regulatory Measure:	11/23/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2365 Iron Point Road Suite 120
Discharge Name:	CEMEX
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported

CEMEX (Continued) **S105023307**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active

CEMEX (Continued) **S105023307**

Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX
Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

Name:	CEMEX
Address:	515 MITCHELL CANYON RD

CEMEX (Continued) **S105023307**

City,State,Zip:	CLAYTON, CA 94517
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 07I009447
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	11/23/1992
Operator Name:	CEMEX
Operator Address:	2365 Iron Point Road Suite 120
Operator City:	Folsom
Operator State:	California
Operator Zip:	95630

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported

CEMEX (Continued) **S105023307**

Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported

CEMEX (Continued) **S105023307**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active
Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX
Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported

CEMEX (Continued) **S105023307**

Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

CONTRA COSTA CO. SITE LIST:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	UNDERGROUND STORAGE TANK SITE
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	APSA: 10K - <100K GALLONS
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	711077

CIWQS:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Agency:	CEMEX

CEMEX (Continued) **S105023307**

Agency Address:	2365 Iron Point Road Suite 120, Folsom, CA 95630
Place/Project Type:	Industrial - Construction Sand and Gravel
SIC/NAICS:	1442(+)
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 07I009447
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	11/23/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	2
Latitude:	37.9335
Longitude:	-121.94191

CERS:

Name:	RMC LONESTAR
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	215748
CERS ID:	T0601300439
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SUE LOYD - CONTRA COSTA COUNTY
Entity Title:	Not reported
Affiliation Address:	4333 PACHECO BLVD.
Affiliation City:	MARTINEZ
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	CEMEX - CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CLAYTON, CA 94517-1529
Site ID:	458437

CEMEX (Continued) **S105023307**

CERS ID: 110005972956
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Facility Owner
Entity Name: CEMEX CONSTUCTION MATL PACIFIC LLC
Entity Title: OWNER
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAY
Affiliation City: ELDORADOHILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: LOUIS B SCHIPPER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: ROBERT ALDENHUYSEN
Entity Title: ENVIRONMENTAL CONTACT
Affiliation Address: POBOX 697
Affiliation City: PLEASANTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: CEMEX CONSTRCTN MATL PACIFICNA LLC
Entity Title: Not reported
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City: ELDORADOHILLS
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Bruce Eppler
Entity Title: Not reported
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City: ELDORADOHILLS
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: GORDON BROWN
Entity Title: OPERATIONS MANAGER
Affiliation Address: Not reported

CEMEX (Continued) **S105023307**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	RAMON NEILSON
Entity Title:	PLANT MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	CEMEX CONSTRCTN MATL PACIFIC LLC
Entity Title:	OPERATOR
Affiliation Address:	POBOX 697
Affiliation City:	PLEASANTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	RICK HANCOCK
Entity Title:	PLANT MANAGER
Affiliation Address:	5180 GOLDEN FOOTHILL PARKWAY
Affiliation City:	ELDORADOHILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	10005676
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985

CEMEX (Continued) **S105023307**

Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.

CEMEX (Continued) **S105023307**

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP

CEMEX (Continued) **S105023307**

Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No

CEMEX (Continued) **S105023307**

Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2018
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-05-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported

CEMEX (Continued) **S105023307**

Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

CEMEX (Continued) **S105023307**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

CEMEX (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985
Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Saria Soriano
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA

CEMEX (Continued) **S105023307**

Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported

CEMEX (Continued) **S105023307**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	254432
CERS Description:	Industrial Facility Storm Water

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

CEMEX (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General

CEMEX (Continued) **S105023307**

Violation Notes: Returned to compliance on 01/04/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department

CEMEX (Continued) **S105023307**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015

CEMEX (Continued) **S105023307**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency

CEMEX (Continued) **S105023307**

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA

CEMEX (Continued) **S105023307**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

CEMEX (Continued) **S105023307**

Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 103985
Facility Name: CEMEX
Env Int Type Code: SMSWIND
Program ID: 254432
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.933500
Longitude: -121.941910

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Saria Soriano
Entity Title: Not reported

CEMEX (Continued) **S105023307**

Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CEMEX (Continued) **S105023307**

Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

---

8 **KAISER SAND & GRAVEL** **LUST** **1000727398**
NW **2484 PINE HOLLOW RD** **HIST CORTESE** **N/A**
1/4-1/2 **CLAYTON, CA 94517** **CERS**
0.461 mi.
2433 ft.

Relative:
Lower

Actual:
434 ft.

LUST:

Name:	KAISER SAND & GRAVEL
Address:	2484 PINE HOLLOW RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300548
Global Id:	T0601300548
Latitude:	37.9411
Longitude:	-121.94935
Status:	Completed - Case Closed

KAISER SAND & GRAVEL (Continued) **1000727398**

Status Date: 03/26/1997
Case Worker: KEB
RB Case Number: 07-0595
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: 02247
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0601300548
Contact Type: Regional Board Caseworker
Contact Name: KEVIN BROWN
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: kebrown@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300548
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Stopped

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Reported

Global Id: T0601300548
Action Type: ENFORCEMENT
Date: 03/26/1997
Action: Closure/No Further Action Letter

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Discovery

LUST:
Global Id: T0601300548
Status: Open - Case Begin Date
Status Date: 11/19/1985

Global Id: T0601300548
Status: Open - Site Assessment

KAISER SAND & GRAVEL (Continued) **1000727398**

Status Date: 08/01/1994

Global Id: T0601300548
Status: Completed - Case Closed
Status Date: 03/26/1997

LUST REG 2:
Region: 2
Facility Id: 07-0595
Facility Status: Case Closed
Case Number: 02247
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/1/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:
edr_fname: KAISER SAND & GRAVEL
edr_fadd1: 2484 PINE HOLLOW
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0595

CERS:
Name: KAISER SAND & GRAVEL
Address: 2484 PINE HOLLOW RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 257971
CERS ID: T0601300548
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400

KAISER SAND & GRAVEL (Continued) **1000727398**

Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/04/2019
Date Data Arrived at EDR: 11/13/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 76

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/11/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 07/02/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 8
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 59

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/15/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 69

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/21/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/11/2019
Number of Days to Update: 70

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/21/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 58

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/12/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/09/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/08/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 78

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2019
Date Data Arrived at EDR: 10/09/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 72

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/15/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 12/03/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 56
Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/06/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 10/31/2019
Date Data Arrived at EDR: 11/01/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 40

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 09/27/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 62

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 03/29/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/22/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 66

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/08/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 57

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 65

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 65

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/11/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/16/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/18/2019
Number of Days to Update: 90
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/21/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 10/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 34

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 51

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/05/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/23/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 60

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 43

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 49

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/08/2019
Date Data Arrived at EDR: 10/10/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 62

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/13/2019
Date Data Arrived at EDR: 11/14/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 70

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 11/05/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 64

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/08/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/22/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/04/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 34

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 57

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 71
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 01/27/2020
Number of Days to Update: 68

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 44

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/21/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 58

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 62

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/30/2019
Date Data Arrived at EDR: 10/30/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 42

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/09/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 61

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 11/05/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 64

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 61

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 52

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 73
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/06/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/23/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/07/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 38
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/23/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/14/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 69
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/16/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 52

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 65

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 10/30/2019
Date Data Arrived at EDR: 11/01/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 68

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/18/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 62

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 64

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/23/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 64

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 51

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/25/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 30

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/04/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 63

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/14/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 83

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 01/30/2020
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/18/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CLAYTON TRUST PROPERTY
MITCHELL CANYON ROAD
CLAYTON, CA 94517

TARGET PROPERTY COORDINATES

Latitude (North):	37.935244 - 37° 56' 6.88''
Longitude (West):	121.94392 - 121° 56' 38.11''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592806.1
UTM Y (Meters):	4198950.5
Elevation:	493 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

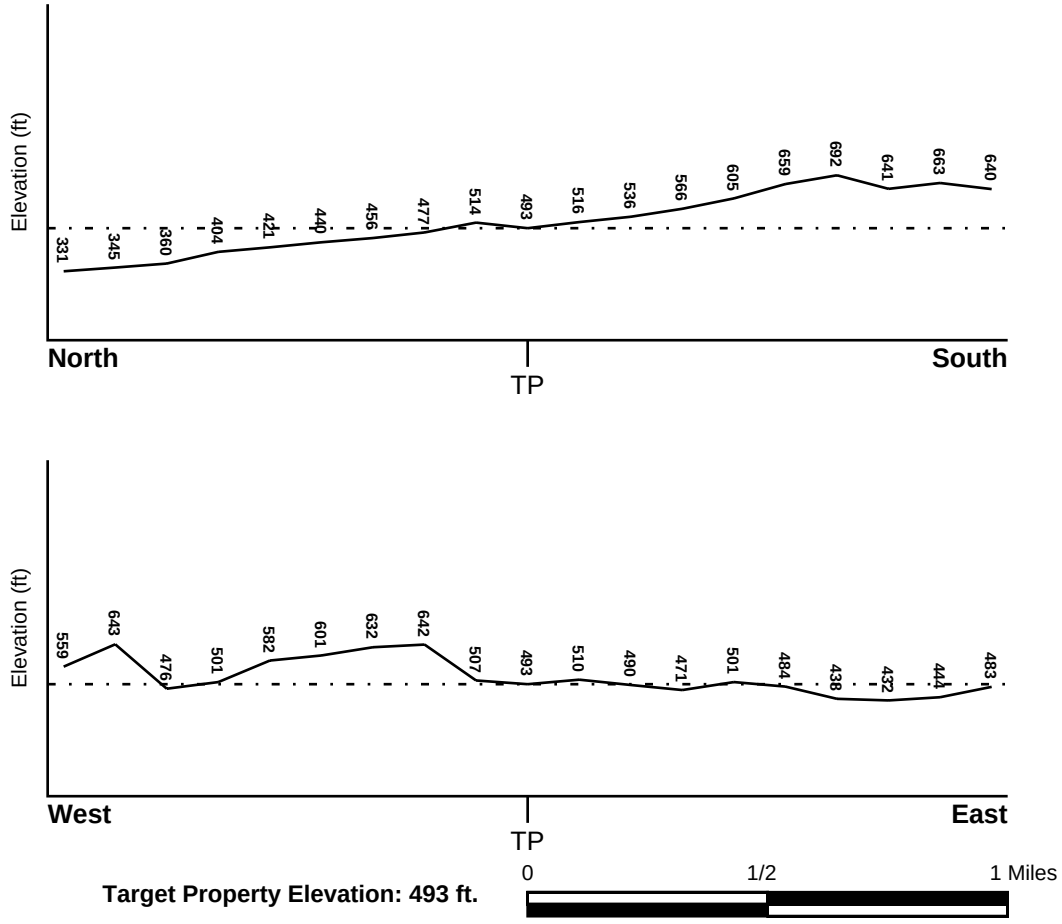
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06013C0312F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06013C0304F	FEMA FIRM Flood data
06013C0308F	FEMA FIRM Flood data
06013C0316F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CLAYTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

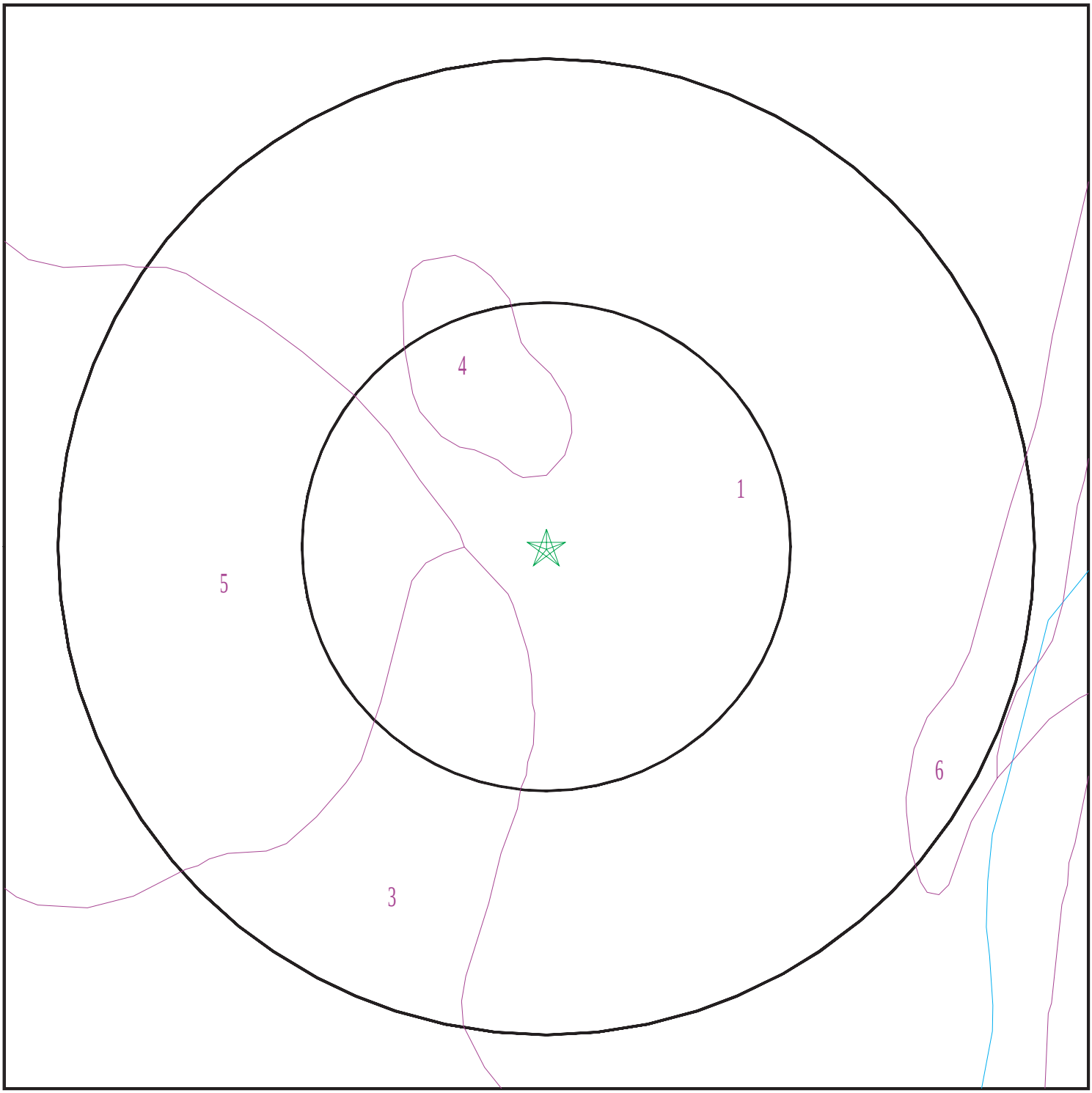
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5957509.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
LAT/LONG:	37.935244 / 121.94392	INQUIRY #:	5957509.2s
		DATE:	February 03, 2020 1:30 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: PERKINS

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: ZAMORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1
2	16 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1

Soil Map ID: 3

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: LOS OSOS

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: Perkins

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CA0706053	1/2 - 1 Mile NE

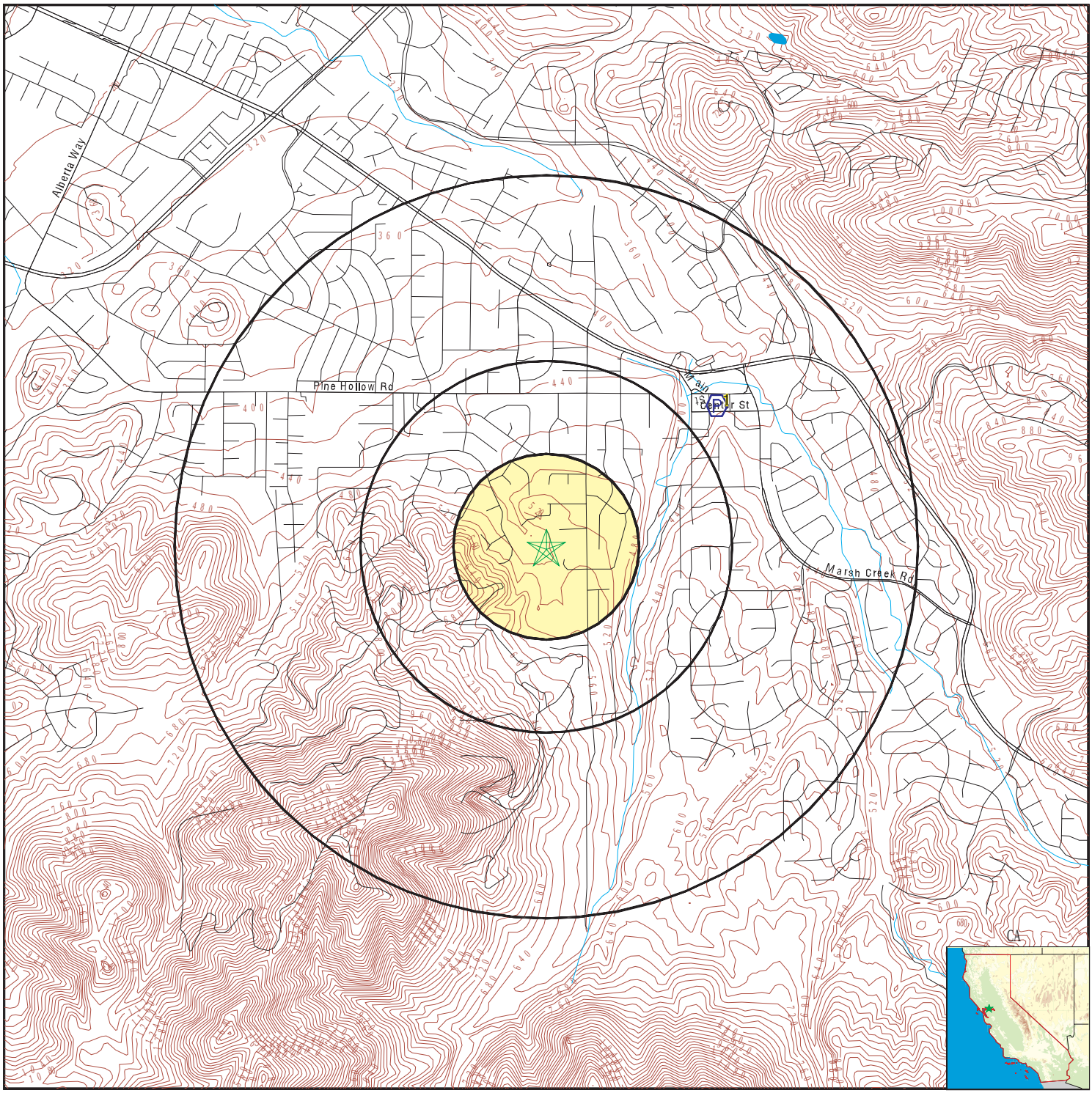
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5957509.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
		INQUIRY #:	5957509.2s
LAT/LONG:	37.935244 / 121.94392	DATE:	February 03, 2020 1:29 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
1/2 - 1 Mile
Lower | **FRDS PWS** | **CA0706053**

PWS ID:	CA0706053	PWS type:	System Owner/Responsible Party
PWS name:	VERNON PETERSON	PWS address:	Not Reported
PWS city:	CLAYTON	PWS state:	CA
PWS zip:	94517	PWS ID:	CA0706053
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	BROKEN WHEEL	System address:	VERNON PETERSON
System address:	HWY 4 & HILL AVE	System city:	OAKLEY
System state:	CA	System zip:	94561
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	375627	Longitude:	1215604

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94517	6	0

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94517

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix D -

Interview Documentation

No documents have been associated with this appendix.

Appendix E -

Miscellaneous Documents

AdvancedGeo Environmental

VAPOR ENCROACHMENT SCREENING (ASTM E2600-15)
CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1
Clayton, California
February 2020

In accordance with ASTM Standard E2600-15 and the Buonicore Area of Concern determination (2011)[i], Advanced GeoEnvironmental, Inc. performed the initial Tier 1 Vapor Encroachment Screening which includes determining the presence or likely presence of volatile organic compounds (VOCs) vapors in the sub-surface of the subject property (SP) caused by the release of vapors from contaminated soil or groundwater either on or near the Target Property within an Area of Concern (AOC) to determine if a potential Vapor Encroachment Condition (VEC) exists. Should sites fall within the AOC, a limited Tier 2 screening will be performed.

TIER 1 SCREENING

(1) Ground Water Flow Direction: Is the groundwater flow direction known?

	No	Proceed to **(1a)**
X	Yes	Proceed to **(1b)** Identify the groundwater flow direction here: **Northeast**

(1a) If groundwater flow direction is **unknown**, the AOC is:

- Non-Petroleum Hydrocarbon Contaminants of Concern (COC): **1,760 feet (1/3-mile)** from the contaminated site boundary to the boundary of the SP.
- Dissolved Petroleum Hydrocarbon COC: **528 feet (1/10-mile)** for from the contaminated site boundary to the boundary of the SP.
- Free Product (Light non-aqueous phase liquids [LNAPL]) COC: **528 feet (1/10-mile)** for from the contaminated site boundary to the boundary of the SP.

Are sites located within the AOC? **Not Applicable**

(1b) If groundwater flow direction is known, the AOC for non-petroleum hydrocarbon COC and dissolved petroleum hydrocarbon or free product (LNAPL) COC is:

- Non-Petroleum Hydrocarbon COC: **1,760 feet (1/3-mile)** in the up-gradient position, **365 feet** in the equi-gradient position, and **100 feet** in the down-gradient position.
- Dissolved Petroleum Hydrocarbon COC: **528 feet (1/10-mile)** in the up-gradient position; **95 feet** in the equi-gradient position, and **30 feet** in the down-gradient position.

- Free Product (LNAPL) COC: **528 feet (1/10-mile)** in the up-gradient position, **165 feet** in the equi-gradient position, and **100 feet** in the down-gradient position.

Are sites located within the AOC?

X	No	Tier 1 screening is complete, and no VEC currently exists, proceed to **CONCLUSIONS**
	Yes	Proceed to **(2)** **Site Name 1, address:** Summary, including known or possible COC **Site Name 2, address:** Summary, including known or possible COC

(2) Subsurface Characteristics

(2a) Is there a hydraulic (e.g., a river) or physical barrier (e.g., clay barrier) between the SP and the suspected contaminated site (or sites)? **Not Applicable**

(2b) Are **non-petroleum hydrocarbon COC** and **dissolved petroleum hydrocarbon** or **free product (LNAPL) COC** known to be in the groundwater beneath the subject property. **Not Applicable**

TIER 2 SCREENING

If the Tier 1 screening indicates that a VEC exists, the Tier 2 non-invasive screening can be used to refine screening. Tier 2 applies numeric screening criteria to existing or newly collected soil, soil gas and/or groundwater monitoring results to provide greater certainty to whether or not a VEC exists. The Tier 2 screening involve a Plume Test and Critical Distance Determination. **The Critical Distance Determination requires that the edge of the plume be known**. The Critical Distance is the lineal distance in any direction between the nearest edge of the contaminated plume and the nearest SP boundary.

A Tier 2 Screening was not warranted for the subject property.

CONCLUSIONS

(1) Conclusions: Impact on Subject Property

A VEC exists

X A VEC does not exist

[i] Buonicore, A.J., 2011, Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources, Paper #2011-A-301-AWMA.

Appendix F -

Qualifications of the Environmental Professionals

DIANE M. BECKER

POSITION
SENIOR GEOLOGIST

EDUCATION
B.A. Geological Sciences - Whittier College (California)

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS
California Professional Geologist No. 7469

DUTIES
Ms. Becker is responsible for the preparation of various correction action plans and the implementation of various investigative and remediation projects. She has extensive experience in designing remediation systems, including soil vapor extraction and groundwater extraction. Ms. Becker also has extensive experience researching and preparing Phase I Environmental Assessments throughout the western United States.

EMPLOYMENT HISTORY

2003 - Present:	Senior Geologist Advanced GeoEnvironmental, Inc.
1998 - 2003:	Staff Geologist Advanced GeoEnvironmental, Inc.
1987 - 1998:	Staff Geologist Clayton Group Services
1995 - 1997:	Intern Hydrogeologist Orange County Water District

TIMOTHY J. CUELLAR

POSITION SENIOR GEOLOGIST

EDUCATION B.Sc. Geology - California State University, Fresno, 1993

DUTIES Mr. Cuellar is responsible for the management, design and implementation for various investigative and remediation projects. He has extensive experience in designing remediation systems for installation throughout California and is considered an expert in ground water extraction and soil vapor extraction techniques and implementation. Mr. Cuellar also has extensive experience in site assessment, underground storage tank investigations, infrastructure studies and landfill monitoring and remediation.

EMPLOYMENT HISTORY

1999 - present: Project Geologist
Advanced GeoEnvironmental, Inc.

1995 - 1999: Senior Staff Geologist
Advanced GeoEnvironmental, Inc., Stockton, California

1993 - 1995: Project Geologist
RM Associates, Fresno, California

1992 – 1993: Staff Geologist
John M. Minney, Geotechnical Engineering, Madera, California

PLANNING COMMISSION
STAFF REPORT

Meeting Date: **December 8, 2020**

Item Number: **7.A.**

From: **Matthew Feske, Community Development Director**

Subject: **Public Hearing to review and consider the eighteen residential-lot Planned Development Project Initial Study/Mitigated Negative Declaration ENV-01-2020; Zoning Map Amendment ZOA-02-2020; Vesting Tentative Residential Subdivision Map MAP-01-2020; Development Plan Permit DP-01-2020; and Tree Removal Permit TRP-09-2020.**

Applicant: Kerri Watt, DeNova Homes, Inc.

REQUEST

The applicant, Kerri Watt, DeNova Homes, Inc, requests approval of an Initial Study/Mitigated Negative Declaration, Zoning Map Amendment, Development Plan, Vesting Tentative Map, and Tree Removal Permit. The project is located on approximately 8.68 acres of land in Clayton. (see Attachment F for Vicinity Map).

The proposal entails review of the following entitlements:

- Environmental Review (ENV-01-20)
  Review and consideration of the Diablo Meadows Residential Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program prepared in accordance with the California Environmental Quality Act (CEQA). This report analyzes the potential impacts caused by the project and identifies various measures to mitigate these impacts.

- Zoning Amendment (ZOA-02-20)
  The project site is currently zoned R-15 which allows the construction of residences. The proposed project includes a request to rezone the entire site from R-15 to Planned Development (PD) in order to encompass the residential uses, open space, and bioretention basins, and amend CMC 17.78.040.D – Exemptions to PD floor are area ratios.

- Development Plan (DP-01-20)
  A Development Plan to review the architecture and design of the 18 proposed single-family residences and three accessory dwelling units (ADU), as well as the project-related landscaping, drainage, fencing, and lighting.

- Vesting Tentative Map (MAP-01-20)
  A Vesting Tentative Map to subdivide the existing approximately 8.68-acre property into 18 proposed residential lots and five parcels for stormwater retention and open space uses.

- Tree Removal Permit (TRP-31-19)
  A Tree Removal Permit to allow the removal of 37 of the 58 trees on or nearby the project site to be replaced with newly planted trees, shrubs, and groundcover.

PROJECT INFORMATION

Applicant/owner:	DeNova Homes, Inc. 1500 Willow Pass Court Concord, CA 94520 Contact: Kerri Watt 925.605.9403
Acreage/Location:	8.68 acres West of Mitchell Canyon Road and north/west of Herriman Court APN's: 121-090-011-2 and 121-090-016-1
General Plan Designation Existing and proposed:	Single-Family Medium Density (MD) (3.1-5.0 units per acre)
Zoning Classification Existing: Proposed:	 Single Family Residential R-15 Planned Development PD
Surrounding General Designations:	North: Single Family Medium Density (3.1-5.0 units per acre) and Low Density (1.1 – 3.0 units per acre) South: Single Family Low Density (1.1 – 3.0 units per acre) and Quarry East: Single Family Low Density (1.1 – 3.0 units per acre) West: Contra Costa County Single Family Low Density (1.0-2.9 units per acre)
Surrounding Zoning Classifications:	North: Planned District (PD) and Single-Family R-15 & R-12 South: Single Family R-12 East: Single Family R-12
Environmental Review:	Diablo Meadows Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-2020) prepared in accordance with the California Environmental Quality Act is discussed in further detail below.

Public Notice: On September 14, 2020, a Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration and a Notice of a Public Hearing for the Diablo Meadows Planned Development Project was published in the Contra Costa Times, posted on the notice boards, and mailed to property owners within 300 feet of the project site. The 20-day public review period for the Project's Initial Study/Mitigated Negative Declaration was from September 15, 2020 to October 5, 2020. The Public Hearing date was noticed for October 27, 2020. The project was withdrawn from the agenda and the Public Hearing date was scheduled to December 8, and notifications were mailed November 20th, 2020, and published in the contra Costa Times November 25, 2020.

Authority: Section 17.56.060 of the Zoning Ordinance requires any Planning Commission recommendations on zone changes to be made by Planning Commission resolution.

BACKGROUND/DISCUSSION

The 8.68-acre project site is located on vacant land located west of Mitchell Canyon Road and north/west of Herriman Court and surrounded by existing single-family residential neighborhoods and a quarry site to the south. The applicant proposes to subdivide the existing property into 18 residential lots and 5 parcels for drainage, private roadway, and open space.

PLANNING COMMISSION AND CITY COUNCIL ACTIONS

Due to the requested and proposed legislative actions for the Zoning Map Amendment and Environmental Study the City Council will be the final hearing body for this project; therefore, the Planning Commission actions will consist of recommendations to the City Council. The Planning Commission will first review and make separate recommendations to the City Council on those 2 entitlements: the Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-2020) and the Rezone (ZOA-02-2020), and then would make a recommendation to the City Council for the remaining entitlements: the Development Plan (DP-01-20); the Tentative Parcel Map (MAP-01-2020); and the Tree Removal Permit (TRP-09-2020) together under one recommendation.

Separate Resolutions have been drafted for the first two entitlements (ENV-01-2020, and ZOA-02-2020, and then the remaining three entitlements (DP-01-2020, MAP-01-2020, and TRP-09-2020) are bundled together in one Resolution. In total, the Planning Commission will review and render recommendations to the City Council on three individual Resolutions.

ENVIRONMENTAL REVIEW

In compliance with the California Environmental Quality Act (CEQA), the City has prepared an Initial Study/Mitigated Negative Declaration (IS/MND) and Mitigation Monitoring and Reporting Program (MMRP) for the proposed project. The IS/MND was

circulated for a 20-day public review period from September 15, 2020 to October 5, 2020. Due to the length of the IS/MND, the document was distributed to the Planning Commission electronically on September 20, 2020. The IS/MND and MMRP are available for review at the Community Development Department on the third floor of City Hall and can also be found on the City's website at: https://ci.clayton.ca.us/community-development/planning/development-activity/current-projects-diablo-meadows/.

The IS/MND evaluated the potential project-related environmental impacts: aesthetics, agriculture resources, air quality, biological resources, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation/circulation, tribal cultural resources, utilities and service systems, wildfire, and mandatory findings of significance. Of the twenty potential impacts evaluated, the IS/MND identified five environmental factors that are "potentially significant": biological resources, cultural resources, geology and soils, hazards and hazardous materials and noise. Mitigation measures have been provided for the five potentially significant impacts, thereby reducing the project impacts on the environment to a "less-than-significant" level. The evaluations, impacts, and mitigation measures are described in detail in the IS/MND.

GENERAL PLAN

The project site is currently designated by the City of Clayton General Plan (GP) Land Use Element as Single-Family Medium Density MD (3.1 to 5 units per acre). Single-family dwellings are consistent with the MD designation. In looking at the surrounding General Plan land use designations, directly adjacent to the project site are Single-Family Low-Density LD (1.1 to 3 units per acre), Rural Estate, and Quarry.

The General Plan notes "this density is intended for and allows planned unit development (PUD) and single-family subdivisions. Development will range from a standard single-family subdivision to a zero-lot line or single-family home. Accessory structures and uses normally auxiliary to them are also allowed, as well as second dwelling units."

The proposed Planned Development project is there for compatible with the GP if the land use density is within the GP range of 3.1-5 units per acre: the project density is 3.9 Units per acre.

ZONING MAP AMENDMENT

The proposed project includes a request to rezone the entire site from R-15 to Planned Development (PD) to encompass the residential uses, private open space, and bioretention basins (see Attachment G). Cluster development is not generally compatible with R-15 zoning, yet the GP clearly depicts medium density is allowed. The proposed zoning map amendment to PD is compatible with the GP.

DEVELOPMENT PLAN PERMIT

A Planned Unit Development of five (5) lots or more requires a Development Plan Permit. The development plan review process reviews the proposed site plan, architecture,

arrangement and spacing of structures to provide appropriate open spaces around them, landscaping, vehicular and pedestrian access, drainage, lighting, fences, and walls.

TENTATIVE PARCEL MAP

The Vesting Tentative Map (Attachment I) shows 18 residential lots and 5 parcels for open space, private roadway, and drainage.

Section 16.12 of the CMC requires all new subdivisions to dedicate land, pay a fee in-lieu thereof, or both for park and recreational purposes. For projects involving 50 parcels or less, the proposed subdivision is required to pay a fee equal to the land value of the portion of the local park required to serve the needs of the residents of the proposed subdivision. A condition has been provided requiring payment of parkland dedication fees at the time of filing the final map.

Housing Element

The Housing Element identifies the entire project site as "V-7 & V-8" vacant land. V-7, and V-8 are designated medium density single-family development in the City's General Plan. It is assumed that units on these sites will be affordable to moderate- and above moderate-income households. The City is conditioning the developer to provide 2 low-income housing units as part of the Affordable Housing Plan for the project.

Table 47 of the Housing Element indicates these two parcels on Mitchell Canyon Road are slated for a total of 19 – 25 units for moderate or above-moderate households. The development plan with its smaller lots and homes will provide 18 single-family homes, plus 3 ADUs, thereby generating a total of 21 living units. State law requires that the State Department of Housing and Community Development (HCD) forecast statewide housing needs and allocate the anticipated need to regions throughout the state. For the Bay Area, HCD provides the regional need to the Association of Bay Area Governments (ABAG), which then distributes the Regional Housing Needs Assessment (RHNA) to the cities and counties within the ABAG region. ABAG allocates housing production goals for cities and counties based on their projected share of the region's household growth, the state of the local housing market and vacancies, and the jurisdiction's housing replacement needs.

"For the 2014-2022 projection period, ABAG has allocated the City of Clayton a total of 141 housing units, which must be accommodated for and demonstrated within the City's Housing Element. The City's 2015-2023 Housing Element identifies a citywide capacity of 275 housing units, which provides for a housing surplus of 134 units above the City's assigned RHNA of 141 units.

State law requires that the Housing Element include an "inventory of land suitable for residential development, including vacant sites and sites having the potential for redevelopment" (Government Code Section 65583[a][3]). State law further requires that the Housing Element analyze zoning and infrastructure on these sites to ensure that housing development during the planning period is actually feasible.

Table 47. Vacant Residential Sites

Site #	APN/Street	Acres	Zoning	Max. Density (units/acre)	Max. Units	Realistic Unit Capacity[1]	Constraints
V-7	121-090-011 Mitchell Canyon Road	4.14	R-15	3.1-5	12	9	Slope (western part of property)
V-8	121-090-016 Mitchell Canyon Road	4.51	R-15	3.1-5	13	10	Slope (western part of property)
Subtotal SF		8.65			25	19	

The applicant has proposed two affordable homes on site. The Plan 1 home incorporates an attached Accessory Dwelling Unit (ADU). The primary home and ADU on Lot 18 will be reserved for rent to a moderate-income and low-income household, respectively. The other 2 ADUs located on Lots 14 & 16, also may be rented-out by the future owners under State Law. These ADUs thereby are providing additional (rental) housing to potentially under-served segments of the population and to a wider income range of the population. But, because of the design - the ADUs is attached to the existing home and appears from the front as an integral part of the home - the single-family and single-story character of the neighborhood appears uniform and harmonious within the proposed neighborhood

Constraints Map

Section 17.22 of the CMC requires residential density computation that does not include sensitive land areas for purposes of calculating the permitted subdivision capacity (density) on a parcel or parcels of land. Because of the constraints due to sensitive land areas, residential parcels with sensitive land areas shall fall within a not-to-exceed maximum density for developable acreage and shall not have a minimum density requirement. Removing 0.87-acres of area that are on slopes greater than 26 percent, and 2.02-acreas that are a drainage area leaves 5.79 acres. The GP Single-Family Medium-Density MD (3.1 to 5.0 units per acre), for 5.8 acres computes to 18 to 29 allowable residences. (See Attachment I)

Open Space Element

The proposed project is requesting a rezone of the entire project site to PD; therefore, the provisions of CMC Chapter 17.28 would also be applicable, including the open space requirements of CMC Section 17.28.100. This section requires provisions for active and passive open space comprising of at least 20 percent of the project site. As a result, the proposed project would be required to acquire and dedicate off-site land for open space or make an in-lieu contribution for the dedication of open space.

The open space topography is rolling, with an historic drainage area – Parcel B – separating the planned cluster development from a portion of the open space, requiring

crossing the drainage area to access the western open space. The cluster development avoids development in this area protecting the open space and reducing potential environmental damage. The topography of the site limits the provision of active open space.

The project site is 8.68 acres, requiring the developer to provide 20 percent (1.74 acres) of that area as open space with 10 percent active open space and 10 percent passive open space. The project plan shows 4-acres open space and no active open space. Since on-site active open space is not being provided, the developer has three options and shall memorialize the selected option or a combination of options by entering into an agreement with the City: 1) acquire the equivalent amount of land for public open space and/or the construction of open space at an off-site location, 2) payment of an in-lieu financial contribution to the City for acquisition and/or maintenance of public open space, or 3) if the financial contributions are based upon maintenance costs, such contributions shall be based upon reasonable maintenance costs for a 10-year period and shall be proportional to the land area that would be required if open space area was provided on-site. The acquisition of open space or the in-lieu fee shall be paid at the time of filing the final map. Staff has provided a condition that the project shall comply with the open space requirements of the CMC.

Community Design Element

The proposed project cluster development plan incorporates smaller lots to reach its development density noted in the GP and CMC, while maintaining natural open space. Cluster development *specifically* is promoted by the City's Open Space Element Policy 3b "Action Plan to Promote Open Space."

The development plan, with its cluster development, preservation of natural open space, single-story homes, rear yards, and landscaping inclusive of many native trees reflects the Community Design Element goal of retaining "the rural and historical character of Clayton's neighborhoods" and Objective 2 to "maintain landscape and natural vegetation found in Clayton as a means to provide greenery, open space, development buffer and rural atmosphere".

DEVELOPMENT PLAN PERMIT REVIEW

Development Standards

The Planned Development District allows for flexibility in regulations, limitations, and restrictions different than those specified elsewhere in the City such as setbacks and height limitations, location of pedestrian and vehicular access, construction of fences and walls, amongst others. The development standards for the eighteen lots for the eighteen single-family homes and 3 ADU's are proposed in the table below. Staff analyzed the development standards in the adjacent Single Family Residential Districts and found the proposed development standards differed to those within the Single Family Residential R-15 District, which is the existing zoning district, yet does conform to the PD districts and density of the GP. The project conforms to the topography by clustering the development in the flatter land area.

The maximum permissible density is defined by the overlying category designated in the General Plan. Strict adherence to overlying General Plan use/density boundaries may not be necessary if a reasonable mixture of uses/densities can be designed which is compatible with adjacent uses and which is not greater than the maximum permissible density as defined by the General Plan.

R-15 Standards

Setback Analysis

The Planned Development zoning proposed for the site allows the project to establish project-specific setbacks, at the discretion of the Planning Commission and City Council. Staff has provided a R-15 setback table. The proposed setbacks for the proposed homes are lower than the surrounding homes due to the proposed cluster concept visualized on the plan set.

STANDARDS	Existing R-15 Standard	Proposed Planned Development
Minimum Lot Area	15,000 sq. ft.	5,000 sq. ft. Lots 14, 16, & 18 7,000 sq. ft. Lots 1-13, 15, & 17 Average Lot Area 7,741 sq. ft.
Minimum Lot Width	100 ft.	50 ft. Lots 14, 16, & 18 65 ft. Average lot width
Minimum Lot Depth	100 ft.	90 ft. -100 ft.
Maximum Building Height	35 ft.	Plan 1 17 ft Plan 2 17 – 23.5 ft. Plan 3 17 – 20.5 ft. Ht. difference due to varied elevations
General Plan Density	3.1-5.0 dwelling units per acre (Medium Density)	3.9 dwelling units per acre (Medium Density)
Front Yard Bldg. Setback	20 ft.	20 ft. garage 11 ft. to 24 ft residence
Side Yard Bldg. Setback	10 ft. Minimum 25 ft. Aggregate	5 ft. Minimum 15 ft. Aggregate 9 lots 1-13, 15, & 17
Street Side Yard Setback	20 ft.	10 ft.
Rear Yard Building Setback	15 ft.	15 ft.

Residential Floor Area Analysis

Building Footprint

The purpose of the CMC 17.78.010 regulation is to implement the GP, which envisions maintaining the semi-rural character of the city and providing a variety of housing sizes. This regulation of the relationship of house size to lot size is intended to preserve and perpetuate the established relationship of buildings and spaces characteristic of Clayton's

residential setting, where relatively modest residences are surrounded with generously sized areas of natural and landscaped open grounds; assure that the scale of residential development responds to the limitations created by constrained lot sizes; and expand the range of house sizes to accommodate housing needs and preserve and enhance diversity of housing.

The following calculations show that the footprint of many of the proposed homes exceed the maximum ratio of floor area to lot size. Due to the constraints of the topography, neighbor requests of single-story homes, and GP density, the proposed plan requires an amendment to MC 17.78.040 – Exemptions to include the project with other PD projects in Clayton.

CALCULATION OF FOOTPRINTS BY PLAN AREA						
	living area footprint	garage	porch(es)	storage	total of non-living for footprint	total footprint
Plan 1	1927	400	52	0	452	2,379
Plan 2	1952	400	49	33	482	2,434
Plan 2X	1952	400	85	33	518	2,470
Plan 3	2117	402	61	20	483	2,600

Many of the footprints exceed that allowed by Code as shown in the following table, however the floor areas are significantly *less* than that allowed by Code. This is due to primarily one-story homes preferred by the neighbors for the proposed community be harmonious with the existing neighborhood. Bigger lots would not meet the General Plan density due to sensitive lands.

Project Floor Area Analysis Table

CALCULATION OF BUILDING FOOTPRINT AND FLOOR AREAS						
Lot*	Lot Area	Plan Type	Bldg. Footprint	Max. Footprint Allowed	Floor Area*	Max. Floor Area Allowed
1	7,376	2	2434	2,160	2589	3,840
2	7,557	3	2600	2,200	2,600	3,916
3	7,395	2	2434	2,160	2589	3,840
4	7,232	3	2600	2,160	2,600	3,840
5	7,069	2	2434	2,100	2589	3,763
6	7,007	3	2600	2,100	2,600	3,763
7	9,467	2	2434	2820	2589	4583
		2X	2470	2820	3253	4583
8	14,655	3	2600	3730	2,600	5536
9	8,544	2	2434	2520	2589	4270
		2X	2470	2520	3253	4270
10	8,567	2	2434	2520	2589	4270

		2X	2470	2520	3253	4270
11	7,642	3	2600	2280	2,600	3990
12	7,062	3	2600	2,100	2,600	3,763
13	7,382	2	2434	2,160	2589	3,840
14	5,382	1	2379	1560	2,379	2680
15	7,264	3	2600	2,160	2,600	3,840
16	5,593	1	2379	1620	2,379	2970
17	7,407	3	2600	2,200	2,600	3,916
18	6,380	1	2379	1860	2,379	3410

* Lots 1, 3, 5 & 13 may not have a Plan 2X per agreement with neighbors.

Architecture and Design

The project plans show 3 floor plans with one single-family residence on the 18 residential lots. 3 of the lots have an attached ADU. The site plan, floor plans, architectural elevations, colors, and roofing are provided as Attachments J and K.

Architectural elevations submitted reflect a rural feel by using vertical, board and batten, stucco, shingle siding, cultured stone and timber materials, shutters, and colors and roofing to create a modern home. The elevations reflect farmhouse, Spanish and craftsman style architectural design. Each residence features sufficient articulation with various projections, recesses, and undulations on all four facades. The earth tones of the proposed exterior colors and materials provide dynamic yet subtle color schemes that foster a unique curb appeal. The appearance of the residences from Marshall Canyon Road is enhanced by the varied architectural elements, and minimal use of solid wall planes. The proposed single-story residence heights of up to 23.5 feet are much lower than the allowed 35 ft. height.

Landscaping

The applicant has submitted a Landscape Plan for the project (see Attachment L). The applicant is providing a mixture of 6 types of trees including coast live oaks and valley oaks, yew, redbud, and crape myrtle trees as well as various shrubs, ornamental grasses, and groundcovers. Staff has provided a condition that, prior to a grading permit being issued for the project, a revised Landscape, Irrigation, and Fencing Plan shall be submitted along with construction plans for building permit issuance to the Community Development Director for review and approval. Landscaping is proposed in front of the residences, in the bio-detention C-3 basins and along Mitchell Canyon Road.

Staff has provided a condition that the landscaping for the project comply with the City's landscape water conservation standards, as listed in Chapter 17.80 of the CMC. Landscape plans show the only water thirsty landscape is a small grass area at each proposed homesite. All other landscaping is low to moderate water use.

Fencing

The fencing plans in the landscape plan package show a split rail fence and a privacy fence.

Parking

CMC requires every dwelling unit permitted in single family residential districts shall have on the same lot or parcel enough automobile storage space for at least four (4) automobiles. Each space shall have dimensions of at least ten (10) feet by twenty (20), and two (2) of the spaces must be covered. The architectural plans show garage parking for 2 cars, and the site plans show parking for a minimum of 2 additional cars in the driveway.

TREE REMOVAL PERMIT

The project arborist report revaluated 58 trees within and next to the proposed development. 36 of the trees have their trunks located on the site, 18 trees are on properties bordering the site, and 4 have trunks in between properties. 39 of the trees evaluated are protected in the City of Clayton. 37 trees are proposed for removal (660.2 inches of cumulative tree diameter) and 21 trees are proposed for preservation.

The proposed landscape plans (attachment L) propose tree planting and front yard and C-2 landscaping. Seven tree varieties are planned: oak, redbud, crepe myrtle, maidenhair, magnolia, and scholar.

Street Section

The proposed plan shows a 30' curb to curb roadway (2 travel lanes and parking on one side) with a sidewalk on the north side in a 36' wide private right-of-way for the east-west portion of the subdivision street. The north-south section of the street is a 24' wide curb to curb roadway (2 travel lanes) in a 26' wide private right-of-way. The north-south section only provide access to two lots. There is a hammerhead turn-around and the end of the street.

GRADING

The Vesting Tentative Map and Grading Plans (Attachment I) show grading on the area of the cluster homes. The maximum elevation of the property is approximately 553 feet above sea level with a minimum elevation of approximately 479 feet above sea level. The elevations of the proposed grading is up to 518 above sea level at Mitchell Canyon Road while a 2:1 slope will be constructed at the westerly side of the clustered development. Plans depict a balanced site and no retaining walls. As is true of all subdivision developments, the grading elements will be reviewed for conformance with the geology report in conjunction with the review of the improvement plans. Attachment O shows grading cross sections on the site, and Attachment P depicts balanced earthwork.

East Contra Costa County Habitat Conservancy

The project site is located within the boundaries of the ECCCHCP/NCCP, which is intended to provide an effective framework to protect natural resources in the County. The project site is located within Zone 2 of the Fee Payment Zones designated in the ECCCHCP/NCCP. Per the Fee Payment Zones, the proposed project would be subject to payment of all applicable fees prior to construction of the project.

Prior to grading the project, the initial study requires mitigation measures to minimize effects of the project, which are included in the conditions of approval. According to the

Plant Survey Report (PSR), the project site consists of approximately 8.07 acres of annual grassland cover, 0.19-acres of seasonal wetlands, 0.02-acre of streams, and 0.38-acres of urban land.

UTILITIES

Water, sewer, and stormwater infrastructure for the subdivision is shown on the project utility plan. (Attachment I)

Water

The project site is located entirely within the service boundary of the Contra Costa Water District (CCWD) and will provide water to the residential project site. Currently, an existing 12" CCWD water main is located in Mitchell Canyon Road adjacent to the project site. The applicant proposes to tie into this main with an 8" main in the project roadway to serve the lots. A minimum of two water laterals will be provided to each lot. CCWD recommends that the water main line in this development be looped and noted water infrastructure will need to be evaluated and any modifications will need to be designed by the Developer and approved by CCWD.

Sewer

Sewer service will be provided to the proposed project by the City of Concord. The closest sewer main is in Mitchell Canyon Court approximately 110 feet west of Mitchell Canyon Road. Mitchell Canyon Court is approximately 500 feet north of the access road to the Diablo Meadows proposed development. The project would need to include construction of the approximately 110 feet of sewer main in Mitchell Canyon Court and 500' of sewer main in Mitchell Canyon Road. The elevation of the existing sewer at the connection point in Mitchell Canyon Court is 482.43 which should allow adequate fall to provide gravity sewer service to the new development. The sewer improvements will also include sewer laterals to the proposed residential lots.

Stormwater

To comply with State's C.3 Standards, the portion of the project site proposed for development has been separated into drainage management areas. Stormwater runoff from the drainage management areas would be directed to separate bioretention areas. Per C.3 Guidebook instructions, the proposed bioretention areas would be sized with adequate capacity to receive and treat all runoff from the impervious areas of the project. Runoff entering the bioretention areas would move through permeable soil layers, which would slow the stormwater while also removing pollutants that may be contained in the runoff. Stormwater that exceeds the bioretention facilities' infiltration capacity, such as in the case of heavy storm events, would be directed to existing drainage area located in the western portion of the project site or into the existing storm drain main on Mitchell Canyon Road.

Funding for the operation and maintenance of the stormwater detention basins will be provided by the HOA/CFD.

Conditions have been provided addressing project-related stormwater, storm drain, and drainage issues, including the applicant submitting to the City Engineer for review and

approval a stormwater operations and maintenance plan along with a final stormwater control plan.

AGENCY COMMENTS

The project conditions of approval list agency comments from Contra Costa County Flood Control District, Contra Costa County Fire Protection District, Contra Costa Water District,

RECOMMENDATION

Staff recommends that the Planning Commission receive and consider the staff report and all information provided and submitted to date, receive, and consider any public testimony, and if determined to be appropriate:

1) Approve Planning Commission Resolution No. _____ (Attachment B) recommending the City Council adopt the Diablo Meadows Residential Subdivision Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-20); and

2) Approve Planning Commission Resolution No. _____ (Attachment C) recommending City Council approval of Ordinance No. _____ (Attachment D) for a rezone of the project site from R-15 to Planned Development District (PD) and Text modification to CMC 17.78.040 - Exemptions (PD Lot Coverage areas) for the Diablo Meadows Residential Subdivision Planned Development Project (ZOA-02-20); and

3) Approve Planning Commission Resolution No. _____ (Attachment E) recommending City Council approval of the Diablo Meadows Residential Subdivision Planned Development Project Development Plan (DP-01-20), Tentative Subdivision Map (MAP-01-20), Development Review Permit (DP-1-20), and Tree Removal Permit (TRP-9-20) for an eighteen-lot residential subdivision.

Alternative Recommendation

Request staff draft a resolution recommending that the City Council deny the Rezone, Vesting Tentative Map, Development Plan Review Permit, and Tree Removal Permit.

FISCAL IMPACT

There are no immediate fiscal impacts associated with the application. Should the proposed project be approved, there would be an increase in property taxes, which would be a direct positive fiscal impact. In addition, after construction and occupancy of the homes, the residents could have an indirect positive fiscal impact by shopping and dining at the local businesses and increasing sales taxes.

ATTACHMENTS

Initial Study/ Mitigated Negative Declaration stand-alone document due to size

A. Conditions of Approval
B. Planning Commission Resolution No. -20 IS/MND
C. Planning Commission Resolution No. -20 Zoning Map & Text Amendment
D. Clayton Ordinance XXX Zoning Map Amendment

E. Planning Commission Resolution No. -20 Vesting Tentative Map, Development Plan, Tree Removal
F. Vicinity and Site Map
G. Zoning Map Amendment Exhibit
H. MC 17.78.040 – Exemptions Text Exhibit
I. Vesting Tentative Map, Boundary and Existing Conditions, Preliminary Grading and Drainage, Preliminary Utility Plan, Preliminary Development/ Constraints Plan, Stormwater Control Plan
J. Design Review Booklet: Architectural Plans (Floor Plans and Architectural Elevations
K. Architectural Color Schemes
L. Landscape and Fencing Plan
M. Arborist Report
N. Existing Tree Exhibit
O. Grading Cross Sections
P. Earthwork Calcs Exhibit
Q. CEQA Initial Study/Mitigated Negative Declaration
R. Public Hearing Notice

DIABLO MEADOWS RESIDENTAL SUBDIVISION CONDITIONS OF APPROVAL

FILES
Environmental Review ENV-01-20; Zoning Map Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20.

DeNova Homes, Inc. (Applicant and Owner)

Section A Approvals

A1. _____ This approval is based on the following exhibits/reports received by the Community Development Department for 18 residential lots, 5 parcels, and a private street right-of-way, on the approximately 8.7-acre site as follows:

- Raney *Diablo Meadows Project Initial Study/Mitigated Negative Declaration*
- City of Clayton. *Clayton 2020 General Plan.* As amended July 19, 2016.
- City of Clayton. City of Clayton Municipal Code. Available at: https://library.municode.com/ca/clayton/codes/municipal_code?nodeId=CICOCLCA
- Contra Costa County General Plan
- Contra Costa Clean Water Program C.3 Guidebook. Available at: https://www.cccleanwater.org/development-infrastructure/development/stormwater-c-3-guidebook
- East Contra Costa County Habitat Conservation Plan
- Trees, Bugs, Dirt Landscape Consulting and Training. Arborist Report: Diablo Canyon, Mitchell Canyon Road, Clayton, CA. April 30th, 2020.
- Vesting Tentative Map: Notes and Sections Boundary and Existing Condition, dated April 2020; Preliminary Grading and Drainage, updated July 2020; Preliminary Utility Plan, Preliminary Development & Constraints Plan, Stormwater Control Plan, updated October 2020;
- Existing Tree Exhibit, March 2020;
- Grading Cross Sections, updated July 2020
- Earthwork Calcs Exhibit, prepared by Meridian Associates, Inc. undated,
- Design Review Booklet: Architectural Plans (Floor Plans and Architectural Elevations, and Architectural Color Schemes, prepared by OAG Architects, Inc., dated 4/22/20
- Landscape and Fencing Plan, prepared by Borrecco/Kilian & Associates, Inc., dated 4/8/20
- Preliminary title report, prepared by First American Title, dated 3/20/20

A2. _____ Conditioned approval of the vesting tentative map shall confer a vesting right to proceed with development in substantial conformance to the approved vesting tentative map and in accordance with the Subdivision Map Act, and not be construed as a guarantee of approvals of specific proposed improvements shown. Final grading plans and improvement plans shall be submitted for review and approval by the Community Development and Engineering Departments,

A3. _____ The development shall comply with the City of Clayton Municipal Code policies and standards unless a specific exception is granted thereto or is otherwise modified in these conditions or in the project development agreement.

A4. _____ Prior to the issuance of building permits, design review of the architecture, sound walls, fencing, mailboxes, lighting, any accent paving, addressing, and landscaping for the entire project shall be subject to review and approval by the Community Development Director.

A5. _____ A final and unchallenged approval of this project supersedes previous approvals, if any, that have been granted for this site.

A6. _____ Permits or approvals, whether discretionary or ministerial, cannot be considered if the applicant is not current on fees, reimbursement and/or other payments that are due the City, at the discretion of the Community Development Director.

A7. _____ All required easements or rights-of-way for improvements shall be obtained by the applicant at no cost to the City of Clayton. Advance permission shall be obtained from any property owner or, if required, from easement holders, for any work done within such property or easements.

A8. _____ All easements of record that are no longer required and affect individual lots or parcels within this project shall be removed, if applicable, prior to or concurrently with the recordation of the final map or subsequent separate document as approved by City Engineer.

A9. _____ All advertising signs shall be consistent with the Sign Ordinance or as approved by the Community Development Director.

A10. _____ The approval of the entitlement is for a two-year period, which may be extended for up to an additional two years, or extended as otherwise in conformance with the Subdivision Map Act as it applies to vesting tentative maps. Extension requests must be submitted prior to expiration of the initial approval and must be accompanied by the appropriate filing fee. An extension request is subject to review and approval of the Community Development Director.

A11. _____ Pursuant to Government Code Section 66474.9, the applicant (including the subdivider or any agent thereof) shall defend, indemnify, and hold harmless the City of Clayton and its agents, officers, consultants, and employees from any claim, action, or proceeding against the City or its agents, officers, consultants, or employees to attack, set aside, void, or annul the City's approval concerning this subdivision map application, which action is brought within the time period provided for in Section 66499.37.

A12. _____ Any condition imposed pursuant to this subdivision shall include the requirement that the local agency promptly notify the subdivider of any claim, action, or proceeding and that the local agency cooperate fully in the defense. If the local agency fails to promptly notify the subdivider of any claim, action, or proceeding, or if the local agency fails to cooperate fully in the defense, the subdivider shall not thereafter be responsible to defend, indemnify, or hold harmless the local agency.

A13._____ The project is subject to development impact fees and parkland dedication fees for impacts to city services (e.g., police, library, administration, planning, maintenance, and engineering) directly related to impacts of the proposed project, including impact fees and the establishment of the CFD as established in the Municipal Code at the time the application was deemed complete and per AB1600.

A14._____ All mitigation measures set forth in the Diablo Meadows Subdivision Initial Study/Negative Declaration (ENV 01-20) are hereby incorporated into these Conditions of Approval, as if fully contained herein, except those found infeasible pursuant to Section 15091 of the California Environmental Quality Act Guidelines.

A15._____ The Developer shall be responsible for the payment of all applicable fees and environmental review costs, including those charged by other governmental agencies including, but not limited to, the California Department of Fish and Wildlife (CDFW) and the U.S. Army Corps of Engineers (USACE).

A16. _____ This application is subject to an initial application fee, which was paid with the application submittal, plus time and material costs if the application review expenses exceed 100% of the initial fee. Any additional fee due shall be paid within 60 days of the application permit effective date or prior to use of the permit, whichever occurs first. The applicant may obtain current costs by contacting the Community Development Director. If the applicant owes additional fees, a bill shall be sent shortly after permit issuance.

Section B Rezoning/Amending

B1. _____ The Vesting Tentative Map, Development Plan, or Tree Removal approval is not deemed effective until the Zoning Map designation for the project site has been rezoned From R-15 to Planned Development District (PD) [ZOA 02-20], and the text has been amended to include Diablo Meadows in CMC 17.78.040.D – Exemptions to PD floor area ratios.

Section C Residential Lots

C1. _____ The maximum number of residential lots approved is eighteen (18) single-family residential lots as shown on the Vesting Tentative Map, Development Plan package, and associated plan submittals noted above.

Section D Development Plan/Design Review

D1. _____ 60 days prior to the approval of the grading plan, the applicant shall submit for review and approval by the Community Development Director a revised Development Plan set that depicts the modifications requested herein.

D2. _____ The minimum setback between property lines and structures is five-feet, as shown on the Preliminary Development Plan.

Section E Modifications

E1. _____ Any revisions to the internal circulation plan or lot layout shall be submitted for the review and approval of the Community Development Director and City Engineer at least 60 days prior to approval of the Final Map or issuance of a Grading Permit.

E2. _____ The final map shall show an irrevocable offer of dedication for a public utility easement over the private street as approved by the City Engineer.

E3. _____ Provide all-weather access to the stormwater detention basins.

E4. _____ Lot 13 shall provide a plan 2 home (not a 3 or 2X home) as noted on the Development Plan.

E5. _____ Lot fencing shall consist of 6-foot tall solid wood "good-neighbor" fences. No "double fencing" will be allowed along shared property lines, unless otherwise preferred by adjacent existing neighbors, as approved by the Community Development Director

E6. _____ The applicant shall provide all residential units constructed within 100' of Mitchell Canyon Road with outdoor areas that are exposed to noise levels from Mitchell Canyon Road at levels no greater than 60 dB. This may require sound attenuation along Mitchell Canyon Road, as reviewed and approved the Community Development Director.

E7. _____ Prior to issuance of a grading permit, the grading and landscape plans shall be modified to reflect the trees to remain.

Covenants, Conditions and Restrictions

E8. _____ A Homeowners Association (HOA) shall be formed for the maintenance of the project's common-area amenities and improvements including but not limited to the private street, streetlights, common-area landscaping, mailboxes, and bio-retention and storm drain facilities, as shown on the vesting tentative subdivision map and Development Plan and as noted below in the covenants, conditions and restrictions (CC&Rs). Maintenance responsibilities and ownership of any open space Parcels upon approval by Community Development Director may be ceded to a successor conservancy entity, which shall be subject

to these conditions of approval and the maintenance obligations established through the CC&Rs.

E9. _____ The CC&Rs for the single-family residential lots shall be submitted for the review and approval of the Community Development Director at least 60 days prior to approval of the Final Map. This document shall provide for establishment, ownership, and maintenance of common space (including the area between Mitchell Canyon Road and the property lines), parking, fire protection, tree protection, open space fencing, private lane, drainage maintenance, keeping of pets, and establishment of signs, and it will include conditions as noted:

a. Setbacks for the home shall be as noted and shown on the approved project development plan. Deviations from that plan must be approved by the Community Development Director.
b. The building heights shall not exceed twenty-five (25) feet.
c. Fencing is per the Project Fencing Plan as modified to show a rural mesh fence for the Open Space Fencing, as reviewed and approved by Community Development Director
d. Property owners are responsible for the repair and maintenance of the fences along their respective property lines. The fences shall be maintained in a style consistent with the design approved by the City unless prior written approval is obtained from the Community Development Director and HOA.
e. All fencing located along the Mitchell Canyon Road frontage portion of lots 1 and 18 shall be privacy fencing from the residences gate to rear yard, and rail fence to private drive, as reviewed and approved by the Community Development Director.
f. All fencing shall be 6-foot tall privacy fencing or sound attenuation as noted in Conditions E5 and E6 excepting lots 1 & 18 as noted in Condition F1d and rural mesh fencing for Open Space as noted in Condition F1c, as reviewed and approved by the Community Development Director.
g. Property owners shall maintain any gates on their property needed for access to aboveground or underground drainage facilities.
h. All fencing shall be constructed consistent with the approved landscape plans. Emergency access to open space parcels shall not be impeded. Gates to the private open space shall be included as required by the Contra Costa County Fire Protection District (CCCFPD) and must accommodate fire apparatus.
i. Perimeter open space fencing along property lines shall be maintained in good condition by the HOA (or its successor conservancy agency).
j. The HOA shall cut down and remove all weeds, grass, vines, or other growth that is capable of being ignited and endangering property. (304.1.2) California Fire Code (CFC).
k. No provision in the CC&Rs that is included as a result of these Conditions of Approval may be amended without the prior written approval of the City of Clayton.

E10._____ The CC&Rs shall reference the approved Stormwater Control Plan and Stormwater Operation and Maintenance Plan drainage improvement maintenance plan and the fencing plan program.

E.11_____ The CC&Rs shall clearly note that all subdivision maintenance is to be done by the property owner, the homeowners association, or the community facilities district.

E.12_____ The CC&Rs shall make an adequate provision or clearly state the funding of all association maintenance responsibilities including but not limited to: the private road, curb, gutter and sidewalk, streetlights, storm drain facilities, common-area landscaping, common-area fencing, mailboxes, etc.

E.13_____ The CC&Rs shall make an adequate provision for funding the maintenance of the C.3 storm drainage facilities and establishing a maintenance cycle standard.

E.14_____ In accordance with the County Child Care Ordinance (https://library.municode.com/ca/contra_costa_county/codes/ordinance_code?nodeId=TIT8ZO_DIV82GERE_CH82-22CHCAFA) the CC&Rs shall indicate that a childcare facility may be located at any residential unit or lot, consistent with the existing laws.

E.15_____ The Developer shall provide homeowners with educational materials regarding proper storage and disposal of household hazardous wastes, including fuels, oils, paints, and solvents. The format and wording of the educational materials shall be approved in advance by the Community Development Director.

Section F CC&R Deed Restrictions

F1. _____ The Covenants, Conditions and Restrictions (CC&Rs developed for this project shall include the following deed restrictions. The wording of the following deed disclosures shall be approved by the Clayton Community Development Director and City Attorney. The following deeds are to be recorded concurrently with the final map, and a note on the final map shall be utilized:

a. The final map shall show private open space deed restrictions in Parcels A-E. The restrictions are intended to preserve the open and attractive visual character of the subject area. The restrictions shall prohibit grading (except for remedial grading, drainage improvements, and disking for weed abatement); construction of all buildings and structures; and storage of any motor vehicles, trailers, recreational vehicles, graders, tractors, or similar equipment.

b. Concurrent with recordation of the Final Map, the following statement shall be recorded at the County Recorder's Office for each parcel within the subdivision to notify owners of the lots that they own property adjacent to a quarry and rural areas:

"This document shall serve as notification that you have purchased land near a quarry where you may regularly find equipment using local roads; equipment causing dust; spraying occurring regularly, and noise associated with quarry operations and /or farming, and you should be fully aware of this at the time of purchase."

c. No alterations of Storm Drain Management on parcels A-E shall be allowed, except for activities approved as part of a maintenance, preservation, and/or enhancement plan. The deed restriction shall prohibit, in perpetuity, use and improvements within the Storm Drain Management areas. Specifically, the deed restriction shall prohibit any physical alterations within the Storm Drain Management parcels, including vegetation

removal, vegetation planting, landform alterations, or construction of structures or improvements, unless necessary for maintenance or replacement. The deed restriction shall be recorded concurrently with the final map.

d. A deed restriction shall alert each property owner to the possible presence of buried human remains and/or artifacts. The deed restriction shall require that if any of these cultural remains are discovered during-ground disturbing activities, work shall be halted within 50 feet of the discovery until a qualified archaeologist is retained to inspect the discovery. If the archaeologist determines that the find is important, no additional construction shall take place until the find can be fully evaluated according to procedures outlined in Section 106 of the Historic Preservation Act. If human remains are uncovered, the Contra Costa County Coroner shall be notified immediately. If the remains are determined to be Native American, a qualified Native American representative shall be contacted, and the Native American Heritage Commission (NAHC) shall be notified within 24 hours. The most likely descendants (MLD) of the deceased shall be given the chance to make recommendations for the remains. If no recommendations are made within 24 hours, remains may be reinterred elsewhere. If recommendations are made and not accepted, the NAHC shall mediate the problem.
e. Applicant shall record a statement to run with deeds to property stating that no trees are to be removed on the property, excepting those approved to be removed on the project's tree preservation plan, without obtaining a tree permit from the Community Development Department.
f. Applicant shall record a statement to run with deeds to property acknowledging the approved geotechnical report by title, author (firm), and date, calling attention to approved recommendations, and noting that the report is available from the seller.
g. Prepare a deed disclosure to be recorded with each lot that they are in a Community Facilities District (CFD). Should the HOA not perform their obligations for any reason, the CFD will require annual assessment installments, hereinafter collectively referred to as special liens. If special liens described above are not paid, foreclosure proceedings may be initiated at any time. After property taxes become delinquent, property may be sold for the delinquent amounts earlier than with regular property taxes.

F2. _____ The deeds for all lots shall contain language that prohibits any future land division(s) to create additional home sites.

Section G Community Facilities District

G1. _____ If not already a part of the City's existing Street Lighting District, the Developer shall annex into the districts prior to the issuance of the first certificate of occupancy or sale of any lot, whichever comes first. The annexation requests shall include annual rate adjustments to account for cost-of-living increases. (Note: This existing City-wide Street Light District is separate from Community Facilities District.)

G2._____ The maintenance of all public and private landscaping and stormwater facilities on or adjacent to the development from the edge of the roadway surface on Mitchell Canyon Road is the responsibility of the homeowner and/or HOA, and/or CFD.

G3._____ Prior to the approval of the final map the developer shall form a Community Facilities District (CFD) that will levy the assessments should the HOA fail to fulfill its requirements. The Developer shall submit all documents required for the formation of the CFD (consistent with the Mello-Roos Community Facilities Act of 1982). Prior to approval of the final map, the Developer shall participate in the formation, including the holding of a ballot election and the levying of assessments of the CFD. The CFD shall include the land area of the entire project. The CFD shall include annual rate adjustments to account for cost-of-living increases. Assessments shall be levied to fund the cost of all operating, maintenance, and repair needs for all of the storm drainage facilities and basin improvements; periodic inspections and testing; roadway maintenance; operating, maintenance, and repair needs for the irrigation and landscaping; periodic inspections costs; City administrative and reporting costs; County levy and collection costs; City overhead charges; and reserve funds for capital replacements and major repairs.

Section H Tree Retention and Landscaping

H1._____ Prior to occupancy of the first residence, the Developer shall install the common-area landscaping and irrigation generally shown on the landscape plans, subject to City review and approval. Individual lot front yard landscaping and fencing shall be installed prior to issuance of Certificate of Occupancy for the home on that lot.

H2._____ Prior to the issuance of a grading permit, a note shall be added to the grading plan that references the April 30, 2020 project's Arborist Report. All trees to be saved and removed shall be marked on the grading plan. The Community Development Department shall review and approve grading, landscape, and improvement plans to ensure adequate measures are taken to protect trees.

H3._____ **Mitigation Measure 10**. The following tree protection measures shall be implemented pursuant to the recommendations listed in the Arborist Report, to the extent feasible:

- The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the existing trees to be retained, as identified in the Arborist Report;
- A five-foot tree protection zone shall be established from the northern and southern fence lines extending into the development area where no foot, vehicle, storage, or any other intrusion shall be allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within the tree protection zone;

- Landscaping around the protected oak (Tree #37) on-site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface;
- Fences along the northern and southern borders shall require absolutely no grading or digging within five radial feet of all protected tree trunks;
- New trees shall be selected, installed, and maintained as per requirements of the City of Clayton; and
- If a new fence line is established for the property, rather than demolishing and reinstalling the existing fence line, four border trees shall be preserved.

H4. _____ **Mitigation Measure 11**. Prior to the initiation of ground-disturbing activities, the potential for root damage shall be minimized through compliance with the following recommendations listed in the arborist report:

- Air spading shall be performed along property lines within the northern and southern portions of the project site;
- All exposed roots shall be pruned using sharp sawzall blades;
- Pruned roots shall be covered with soil.

H5. _____ **Mitigation Measure 12**. Prior to the initiation of ground-disturbing activities, the potential for crown damage shall be minimized through compliance with the following recommendations listed in the arborist report:

- Crowns shall be raised as specified to allow for vehicle and equipment clearance:
- Crowns shall be raised 16 feet above the existing grade;
- 50 percent of live crown ratio shall be maintained;
- Thinning cuts shall be made two inches in diameter or smaller;
- Downward growing branches from zero to 15 feet above grade shall be removed;
- Branches larger than two inches in diameter shall be shortened by heading the branches back to at least half of their diameters; and
- No more than 25 percent of a crown is to be removed in one season.

H6. _____ **Mitigation Measure 13**. A tree replacement plan for the removal of 152 inches of cumulative trunk diameter of protected tree species shall be prepared in accordance with Municipal Code Section 15.070.040 A1.or A.2., or, subject to determination by the Community Development Director or Planning Commission, the applicant must pay an in-lieu fee to the City for the purchase and installation of trees of equivalent value.

H7. _____ Three sets of the final landscape and irrigation plans shall be submitted with the grading and improvement plans for review and approval by the Community Development Department, Engineering Department, and the Maintenance Department. These plans shall be approved prior to issuance of grading or encroachment permits. The landscape and irrigation plans shall be prepared by a landscape architect; have overall dimensions of 24 inches by 36 inches; contain approval blocks for the Community

Development Director, City Engineer, and Maintenance Department; and show all existing and proposed public utilities within the project limits.

H8. _____ Landscaping is to be maintained by the individual property owner(s) and/or the HOA and/or CFD and shall be installed in conformance with the approved plans prior to occupancy of the individual residence(s).

H9. _____ Landscaping is subject to inspection by the Maintenance Department and must be guaranteed for one year from the date of acceptance of the subdivision improvements by the City Council.

H10. _____ Installation of all irrigation and landscaping shall be performed by a licensed contractor. Open trench inspection of the irrigation installation in City right-of-way is subject to approval of the City Maintenance Department. Prior to the final inspection by the Maintenance Department, the project landscape architect shall submit a letter to the Community Development Director indicating the installation is in accordance with the approved landscape plans.

H11. _____ All trees shall be planted at least 10 feet away from any public water, sewer, or storm drain lines, unless otherwise approved by the City or the maintaining agency (i.e. City of Concord). All trees shall be installed with support staking, which shall be removed as the trees are established. All trees planted within 8 feet of a sidewalk, trail, or driveway shall be installed with root barriers.

H12. _____ Prior to the turn-over of common-area landscape maintenance responsibilities to the homeowners' association, the project landscape architect shall prepare a letter for submittal to the Community Development Director certifying that landscape irrigation water use is compliant with the City's / County's Water Efficient Landscape Ordinance (WELO) and the City's Water Conserving Landscape Guidelines, Chapter 17.80.

H13. _____ The Developer shall maintain all landscaping and other facilities that will become the responsibility of the HOA for one year after the HOA has been formed or a plan for the smooth transition of responsibility has been prepared by the developer and approved by the City Engineer.

H14. _____ Landscaping shall be installed in conformance with the approved plans prior to final inspection.

H15. _____ Plans shall conform with the Water Conserving Landscape Guidelines in Chapter 17.80 of the Zoning Ordinance and applicable stormwater regulations.

Section I Fencing Conditions

I1. _____ The fencing plan shown on the Landscape Plan shall be amended to show the items listed below and submitted for review and approval by the Community Development Department.

a. The 6-foot tall solid wood "good-neighbor" fence proposed along the rear property lines of Lots 1 – 6 shall parallel and not replace the adjacent neighbor's existing cyclone fencing unless otherwise desired by the neighbor (895 Midhill Road). This fence also shall be extended across Parcel E (bio-retention basin). The height or design of the fence along this property line of Parcel E may be modified to accommodate safe sight distance for exiting the driveway of 895 Midhill Road if so desired by the neighbor or directed by the City.

b. The 6-foot tall solid wood "good neighbor" fence proposed along the rear property lines of Lots 12, 13 & 14 shall replace the existing fencing of the home at 33 Herriman Court and shall be located along the shared property-line.

I2. _____ All fences or walls in proximity to Mitchell Canyon Road public right-of-way shall be located at least 1 foot inside the respective parcel's property line as shown on the Final Map.

I3. _____ The developer shall repair all existing open space fencing, as needed, at the completion of grading operations to the satisfaction of the City Engineer.

Section J Grading

J1. _____ **Mitigation Measure 1**..The project applicant shall be subject to pay all required fees associated with development in Zone 2 of the ECCCHCP/NCCP prior to the start of construction at the current fee rate in place at that time.

J2. _____ **Mitigation Measure 2**. Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys shall establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by kit foxes in accordance with USFWS survey guidelines (U.S Fish and Wildlife Service, 1999).

The preconstruction survey shall be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens shall be determined and mapped. Written results of the preconstruction survey shall be submitted to USFWS within 5 working

days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

Avoidance and Minimization Measures. If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the project applicant shall comply with the following avoidance and minimization requirements:

- If a San Joaquin kit fox den is discovered within the proposed development footprint, the den shall be monitored for three days by a USFWS-CDFW-approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.
- Unoccupied dens should be destroyed immediately to prevent subsequent use.
- If a natal or pupping den is found, USFWS and CDFW shall be notified immediately. The den shall not be destroyed until the pups and adults have vacated and further consultation with USFWS and the CDFW has been performed.
- If kit fox activity is observed at the den during the initial monitoring period, the den shall be monitored for an additional five consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied, the den may be excavated under the direction of the biologist. Alternatively, if the animal is still present after five or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgement of a biologist, it is temporarily vacant (i.e., during the animal's normal foraging activities).
- If San Joaquin kit fox dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances shall be demarcated. The configuration of exclusion zones shall be circular, with a radius measured outward from the den entrance(s). No covered activities shall occur within the exclusion zones. Exclusion zone radii for potential dens shall be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by the kit fox.

J3. **Mitigation Measure 3**. Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The survey shall establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).

On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership shall not be surveyed. Surveys shall take place near sunrise or sunset in accordance with CDFW

guidelines. All burrows or burrowing owls shall be identified and mapped. Surveys shall take place no more than 30 days prior to construction. During the breeding season (February 1 to August 31), surveys shall document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1 to January 31), surveys shall document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results shall be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization Measures. If burrowing owls are found during the breeding season (February 1 to August 31), the project proponent shall avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance shall include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 to January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance shall include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur shall be established around each occupied burrow (nest site). Buffer zones of 160 feet shall be established around each burrow being used during the nonbreeding season. The buffers shall be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation shall be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

J4. **Mitigation Measure 4**. Prior to implementation of covered activities, a qualified biologist shall conduct a preconstruction survey to establish whether nests of golden eagles are occupied. If nests are occupied, minimization requirements and construction monitoring shall be required.

Covered activities shall be prohibited within 0.5-mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should

be implemented, the Implementing Entity shall coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction monitoring shall focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the Urban Limit Line, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring shall ensure that direct effects to golden eagles are minimized.

J5._____ **Mitigation Measure 5**. Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

J6._____ **Mitigation Measure 6**. If work is scheduled to take place between February 1 and August 31, a pre-construction nesting bird survey shall be conducted by a qualified biologist within 14 days of construction. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

J7._____**Mitigation Measure 7**.The proposed project shall be designed in compliance with stream setback requirements set forth in Conservation Measures 1.7 and 2.12 of the ECCCHCP/NCCP, including the following avoidance and minimization measures:

- All wetlands to be avoided by covered activities shall be temporarily staked in the field by a qualified biologist, and a 25-foot buffer zone shall be implemented along the seasonal wetland swale and between the ephemeral streams and development activities.
- Herbicides shall not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In such a case, herbicides that have been approved by the EPA for use in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides shall be applied to the ruderal grassland within the buffer area during the dry season to control non-native invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.
- Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the ephemeral streams or the seasonal wetland swale shall be trained by a qualified biologist in the avoidance and minimization measures set forth by this IS/MND and the permit obligations of the project proponents working under the ECCCHCP.

J8._____ **Mitigation Measure 8**.Vehicles and equipment shall be parked on pavement, existing roads, and previously disturbed areas. No construction or maintenance vehicles shall be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill. In addition, trash generated during project construction shall be promptly removed from the site.

J9._____ **Mitigation Measure 9**. The proposed project shall be implemented in compliance with the hydrologic maintenance and erosion minimization measures set forth in Conservation Measures 1.10 and 2.12 of the ECCCHCP/NCCP. Standard construction best management practices (BMPs) shall be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs shall include the use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences, or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

Appropriate erosion-control measures (e.g. fiber rolls, filter fences, vegetative buffer strips) shall be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh shall be of material that shall not entrap reptiles or amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Fiber rolls used for erosion control shall be certified as free of noxious weed seed. Seed mixtures applied for erosion control shall not contain invasive non-native species and shall be composed of native species or sterile non-native species.

J10. _____ **Mitigation Measure 14**. Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.

J11. _____ **Mitigation Measure 15**. Pursuant to State Health and Safety Code §7050.5(c) and State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the Most Likely Descendant (MLD). The MLD shall work with the contractor to develop a program for re-internment of

the human remains and any associated artifacts. Additional work shall not take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.

J12. _____ **Mitigation Measure 16**. Prior to approval of the improvement plans for the project, all recommendations from the Geotechnical Report prepared for the project by Stevens, Ferrone, & Bailey Engineering Company, Inc (2020) shall be incorporated into the improvement plans to the satisfaction of the City Engineer. In addition, the applicant shall retain a California Registered Geotechnical Engineer to perform field observations during grading. Compliance with the recommendations of the Geotechnical Engineer shall be provided to the City Engineer.

J13. _____ **Mitigation Measure 17**. Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:

- Hydro-seeding;
- Placement of erosion control measures within drainage ways and ahead of drop inlets;
- The temporary lining (during construction activities) of drop inlets with "filter fabric";
- The placement of straw wattles along slope contours;
- Use of a designated equipment and vehicle "wash-out" location;
- Use of siltation fences;
- Use of on-site rock/gravel road at construction access points; and
- Use of sediment basins and dust palliatives.

J14. _____ **Mitigation Measure 18**. Prior to initiation of any ground disturbance activities, the applicant shall hire a licensed well contractor to obtain a well abandonment permit from Contra Costa Health Services and properly abandon the on-site well to the satisfaction of the Contra Costa Health Services Department. Proof of abandonment shall be provided to the City of Clayton Community Development Department and City Engineer.

J15. _____ **Mitigation Measure 19**. During grading and construction, the project contractor shall ensure that the following measures are implemented:

- Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;
- The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and
- All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.

J16. _____ Prior to issuance of a grading permit, The Grading Plan shall be amended as follows:

a. A licensed surveyor or engineer shall survey the locations and limits of the trunk and dripline of all trees to be retained that could be affected by any work during project construction. The locations and limits shall be shown on the grading plans and appropriate construction and plot plans.
b. All disturbed slopes steeper than 10% shall be track-walked for surface compaction, covered with jute netting and hydroseeded, or stabilized with other standard techniques acceptable to the City Engineer.
c. All new graded slopes must be configured to undulate and avoid relatively flat planes or sharp transitions to un-graded areas.
d. All required side setbacks shall contain at least 5 feet of flat, unoccupied area. "Flat" means a cross-slope between 2% and 10%. "Unoccupied" means no encroachments by fireplaces, building pop outs (with or without a foundation), air conditioning pads, and the like.
e. Two feet of flat area shall be provided on the graded portions of properties between a property or right-of-way line and the top of slope.
f. Any retaining walls in the project shall be constructed of segmental units (a.k.a., keystone), masonry block, or concrete. All retaining walls visible from street or sidewalk areas shall be covered with a stone fascia. Retaining walls greater than 3 feet in height shall be designed by a licensed engineer.
g. Signature blocks shall be provided for the Community Development Director and the City Engineer.

J17. _____ The Developer shall identify the BMPs for protection of air quality to minimize the generation of dust during construction. The Bay Area Air Quality Management District's Basic Construction Measures shall be included within the project grading plan and shall be approved prior to issuance of project grading permits:

a. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

b. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

c. All vehicle speeds on unpaved roads shall be limited to 15 mph.

d. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

e. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points.

f. All construction equipment shall be maintained and properly tuned in accordance with manufacturers specifications. All equipment shall be checked by a certified visible emissions evaluator.

g. A publicly visible sign shall be posted with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Section K Street Conditions

K1. _____ Parking shall be prohibited along the south side of the project road and along both sides of the road by lots 8-10. The parking prohibition shall be indicated by painting the face and top of curb red.

K2. _____ The developer shall complete all street improvements across the Mitchell Canyon Road frontage of this property. . Any existing street, sidewalk, curb, gutter, or other existing improvement which in the sole opinion of the City Engineer is damaged - either on or adjacent to - the project site, shall be repaired by the Developer to the satisfaction of, and in the manner required by, the City Engineer.

K3. _____ The name of the project private road shall be subject to review and approval in accordance with City Council Resolution No. 68-2003.

K4. _____ All mailbox locations shall be constructed and grouped in accordance with U.S. Postal Service standards, and the grouping of mailboxes shall be architecturally treated to reduce massing and visual impact. All mailbox locations are subject to review and approval of the Community Development Department and the U.S. Postal Service.

K5. _____ The Developer shall design and install any traffic calming/control devices such as rumble strips, a flashing yellow light (on an interim basis), and/or a traffic signal (on a permanent basis at or east of the project entrance road) in accordance with the project's construction site best management plan, and the Traffic Impact Analysis prepared for the development per AB 1600.

K6. _____The word, or term, "local", as utilized in these Conditions of Approval, does not define nor refer to any street and/or roadway designation. The word, or term, "local" shall be defined as: of, relating to, or characteristic of a particular place **:** not general or widespread.

Section L Drainage Conditions

L1. _____A complete hydrology and hydraulic report shall be prepared for the entire area within the boundary of the Final Map. The hydrology and hydraulic report shall include, but not necessarily be limited to:

a. A complete and thorough hydrology and hydraulic study of the existing condition of the area encompassed by the boundary of the Final Map to determine the volume and velocity of all current storm water run-off exiting the development site and entering the natural drainage course that post-construction storm water run-off will be discharged to. Study shall include mapping of hydrologic catchment areas and all calculations, or modeling, required to determine the current storm water run-off volume and velocity.

b. A complete and thorough hydrology and hydraulic study of the built condition of the area encompassed by the boundary of the Final Map to determine the volume and velocity of all storm water run-off exiting the fully built environment. Study shall include mapping of hydrologic catchment areas and all calculations, or modeling, required to determine the storm water run-off volume and velocity from the fully built-out environment.

L2. _____ The post construction storm water run-off volume and velocity as determined in L1.b. (above) of the built condition of the area encompassed by the boundary of the Final Map, shall not exceed the volume nor the velocity of the pre-construction storm water run-off volume and/or velocity of the existing condition of the area encompassed by the boundary of the Final Map as calculated in L1.a (above).

L3. _____ The applicant shall enter into reimbursement agreements with Contra Costa County and Contra Costa County Flood Control District and pay all fees, costs and/or reimbursements to the County and District for the following:

a. Contra Costa County Flood Control District plan review and checking of all mapping, plans, calculations and/or modeling utilized to determine the pre and post construction storm water run-off volumes and velocities and to determine that post construction storm water run-off volume and velocity does not exceed pre construction storm water run-off volume nor velocity.

b. Contra Costa Clean Water Program (CCCWP), or CCCWP consultant, plan review and checking of all mapping, plans, calculations and/or modeling utilized to determine the post construction storm water run-off volume and velocity and to determine that all NPDES MRP-2.0 C.3 LID post construction storm water run-off requirements are being met or exceeded.

L4. _____ Stormwater detention basins shall be sized and constructed to accommodate stormwater flows created by the project. Stormwater detention basins shall be sized according to Contra Costa Flood Control requirements and standards. Storm water detention basins and NPDES MRP-2.0 C.3 Low Impact Development (LID) facilities shall not be combined. NPDES MRP-2.0 C.3 LID requirements shall be met on-site on the individual lots and flood control storm water retention/detention requirements may be conformed to utilizing a project-wide approach and retention/detention facility.

L5. Applicant shall utilize the Contra Costa Clean Water Program C.3 Guidebook (https://www.cccleanwater.org/development-infrastructure/development/stormwater-c-3-guidebook)

L6. _____ All ditches for conveying stormwater runoff shall be constructed of tan-colored reinforced concrete and shall have a maximum longitudinal slope of 10%. All stormwater runoff from impervious areas shall be treated and contaminants removed prior to discharge from the site or into any watercourse or channel. Design of storm water detention and/or storm water treatment facilities shall be subject to the review and approval of the City Engineer and Community Development Director and shall include, but not be limited to, the installation of drywells for percolation.

L7. _____ Prior to issuance of a grading permit, the application shall submit a final Stormwater Control Plan for review and approval by the City Engineer. Prior to the issuance of the first Certificate of Occupancy, a separate Operation and Maintenance Plan shall be submitted for review and approval. The applicant shall enter into a Stormwater Operations and Maintenance and Right of Entry Agreement with the City indicating that the homeowners' association will maintain all on-site stormwater management facilities. The Operation and Maintenance Agreement will reflect that all City personnel or contracted forces shall have the right of access to conduct inspections of all on site drainage facilities and maintenance thereof should the HOA fail in its responsibilities.

L8. _____ The Mosquito and Vector Control District and its contractors shall have the right of access to conduct inspections and maintenance of all on-site drainage devices.

L9. _____ All roofs shall have rain gutters with rainwater leaders that directly discharge into an on-lot underground system which discharges through the face of curb at streets or into a concrete-lined ditch or storm drain inlet.

L10. _____ The improvement plans shall reflect that all on-site storm drain inlets shall be labeled "No Dumping — Drains to Creek" using thermoplastic stenciling or equivalent permanent method, subject to City approval.

L11. _____ The Developer shall comply with all rules, regulations, and procedures of the National Pollution Discharge Elimination System (NPDES) as promulgated by the California State Water Resources Control Board (SWRCB), the San Francisco Bay Area Regional Water Quality Control Board (RWQCB), and the Contra Costa County Clean Water Program (CCCWP). Project and site management and site design shall include BMPs during all construction and post-construction phases. BMP's shall be constructed and implemented providing for the prevention of and elimination of storm water pollutants entering into any Municipal Separate Storm Sewer System (MS4) or to any natural watercourse to the maximum extent practicable.

L12. _____ The Developer shall provide proof that a "Notice of Intent" has been filed with the State Regional Water Quality Control Board. The proof shall be in the form of the WDID Number assigned to this project by the State Water Resources Control Board. The WDID Number shall be included on the cover sheets of all plan sets approved for construction of this project. Prior to acceptance of the subdivision the Developer shall provide proof to the City that the "Notice of Intent" has been closed out by the State Regional Water Quality Control Board.

L13. _____ Prior to the issuance of a grading permit, the Developer shall prepare and submit to the City a Stormwater Pollution Prevention Plan (SWPPP) in conformance with the requirements set forth by the RWQCB. The SWPPP shall include pre-construction, construction, and post-construction BMPs. The SWPPP shall also include, but not be limited to:

a) Sampling (pre-construction, during construction, and post-construction) of the stormwater outfall at Mount Diablo Creek for sediments in accordance with State Construction General Permit (CGP) regulations.
b) Hydro-seeding or landscaping of all disturbed areas.
c) BMPs, including landscaping or hydro-seeding of front and rear yards prior to acceptance of the subdivision.
d) A site spill response plan.
e) An erosion control plan including such items as installation of berms, silt fences, sedimentation basins and other measures to minimize off-site transport of soil. Topsoil should be stockpiled during grading and distributed over the ground surface after grading has been completed.
f) Location of construction staging and materials storage areas.
g) On-site retention and treatment of stormwater through the use of water quality basins, grassy swales, biofilters and/or other methods in conformance with the CCCWP C.3 Guidebook and acceptable to the City Engineer and the RWQCB. The project shall mitigate runoff quantities to the extent currently required by the City's NPDES Permit and Municipal Regional Permit (MRP-2.0).
h) Installation of structural treatment facilities to remove total suspended solids and total petroleum hydrocarbon products to the extent currently required by the RWQCB, or to the satisfaction of the City Engineer. The methods and designs shall be shown on the grading and improvement plans, as appropriate, for review and approval by the City Engineer.

L14. _____ Prior to commencement of any site work that will result in a land disturbance of one acre or more, the Developer shall provide evidence to the City that the requirements for a stormwater State CGP have been met.

L15. _____ The Developer shall ensure that all project contractors shall conform to the requirements of the "Best Management Practices for Construction Sites" required by the City, including detention and/or filter materials to preclude an increase in water quantity

and quality impacts from debris and sediments entering the stormwater system over "non-development" conditions.

L16. _____ The Developer shall offer for dedication to the City easements for drainage improvements. The volume and rate of stormwater runoff from the site shall not exceed the amounts allowed by Section C.3 of the City's Contra Costa Municipal Regional Permit (MRP-20). The project shall bear the financial responsibility of the construction and perpetual maintenance (including monitoring and reporting) of these facilities with a funding mechanism acceptable to the City that addresses costs for capital replacement, inflation, and administration.

L17. _____ The Developer shall prepare an operations and maintenance plan, including a schedule for ongoing maintenance and replacement, for the stormwater facilities. The plan shall be submitted for review and approval of the City Engineer prior to recordation of the final map.

L18. _____ The quantity and rate of stormwater runoff may take into consideration any applicable comments from the Contra Costa County Flood Control and Water Conservation District (FC District) to ensure that the quantity and creation of runoff from the site does not exceed historic rates and does not adversely impact downstream drainage facilities.

L19. _____ The Developer shall provide all project property owners with Clean Water Program educational materials.

L20. _____ The Developer shall construct the County Standard Plan Headwall Structure at the outfall, or as reviewed and approved by the City Engineer.

Section M Utility Conditions

M1. _____ The Developer shall dedicate, to the City of Clayton, an 8-foot-wide public utility easement along project's entire frontage on the west side of Mitchell Canyon Road.

M2. _____ Sanitary sewers shall comply with the City of Concord standards, which allow a maximum depth of 24 feet from finished grade to invert as approved by the City of Concord.

M3. _____ The Developer shall connect to the sanitary sewer system, obtain applicable permits, and pay applicable fees required by the City of Concord Public Works Department.

M4. _____ The width of access and maintenance easements for underground facilities shall be twice the depth of the facility with a minimum width of 10 feet.

M5. _____ Streetlights shall be provided on the project road. Streetlight standards and photometrics showing levels of illumination shall be submitted for the review and approval of the Community Development Department. "Cut-off' fixtures and downward-oriented fixtures shall be used to minimize spillover of lighting into residences. All street lighting shall be LED.

M6. _____ All street lighting shall be installed and activated prior to occupancy of the first residence.

M7. _____ Developer shall pay for the cost of installation, activation, and electrical use until final acceptance of subdivision improvements by the City Council .

M8. _____ The Developer shall prepare a construction traffic plan for the review and approval of the City Engineer which addresses the following issues:

a) All construction traffic associated with the development of the proposed subdivision safely enters and exits the site from Mitchell Canyon Road.
b) Temporary warning devices (e.g., changeable message boards) shall be located north and south of the project site entrance to alert motorists of turning movements by construction vehicles.

M9. _____ Prior to the issuance of any permits, the Developer shall provide an interest-bearing, non-refundable cash deposit or cash bond, in an amount to be determined by the City Engineer, but no less than one hundred (100) percent of the engineer's estimate for use by the City in the completion of the improvements as shown on the improvement plans at some undetermined time in the future.

M10. _____ Prior to approval of any grading or construction plans or maps, the Developer shall provide any necessary rights of entry, drainage easements, slope and/or grading easements, as may be required by the City Engineer, from adjoining property owners.

M11. _____ All work shall be designed and constructed in accordance with the Municipal Code, as well as the City's Standard Plans, Contra Costa County plans where applicable, and Specifications.

M12. _____ Upon recording of the final map, the City shall be given a full size, reproducible, Mylar photocopy of the recorded map and an electronic file of the map in a form which can be imported into AutoCAD, and configured as directed by the City Engineer.

M13. _____ Upon completion of the improvements and prior to City Council acceptance, the City shall be given a full size, reproducible copy of the improvement plans, and an electronic version in AutoCAD, annotated to reflect any changes that occurred during construction and signed by the Project Engineer, on USB key or other means acceptable to the City Engineer.

M14._____ Should the construction of any offsite improvements shown on the tentative map or required in these conditions of approval, necessitate the acquisition of sufficient title or interest in lands not controlled by the Developer, the Developer shall make a good faith effort to obtain the necessary title or interest prior to the filing of the final map pursuant to Section 66457 of the Subdivision Map Act. If the Developer is unable to obtain the necessary title or interest and has demonstrated a good faith effort to the City's satisfaction (including, but not limited to, preparation of an appraisal and submittal of a bona fide offer based on the appraisal), the City shall approve the final map, and, within 120 days of filing of the final map, obtain the necessary title or interest in accordance with Section 66462.5 of the Subdivision Map Act. The Developer shall pay for all costs, including City's legal, overhead, consultant and administrative costs, involved in the acquisition of the necessary title or interest.

M15._____ At the City's sole discretion, if the Developer has made the good faith effort described above and was not able to obtain the required rights of entry or easements, in lieu of the City obtaining the necessary rights of entry and/or easements, the City may allow the proposed improvements to be modified to eliminate the need for such rights of entry and/or easements. Should the City allow such modifications and prior to the filing of the final map, the Developer shall provide a non-refundable cash deposit or cash bond, in an amount to be determined by the City Engineer, for use by the City in the completion of the improvements as shown on the tentative map at some time in the future.

M16._____ All existing and new utility lines required to serve, and serving, the subdivision shall be underground, including those crossing Mitchell Canyon Road, if any. Utility poles shall not be allowed within the boundaries of this subdivision. Utility undergrounding shall begin, and end, at the nearest utility pole outside of the subdivision boundaries that complies with all requirements of a pole that utilities can drop from or rise to in accordance with all PG&E and other utility and communication company requirements.

Section N Construction Plans

N1. _____ All construction plan sets shall include all project Conditions of Approval listed in their entirety on the first plan sheet(s) following the cover sheet of the plan set. Conditions of Approval shall be plotted clearly and legibly in no smaller than Arial size 12 font. All Conditions of Approval shall be listed in the same order as shown in the final approved Conditions of Approval enacted by Clayton P{planning Commission and/or Clayton City Council. Conditions of Approval shall include all Sections, Section numbers, and Section titles.

Section O ADVISORY NOTES

THE FOLLOWING INFORMATION DOES NOT CONSTITUTE CONDITIONS OF APPROVAL. IT IS PROVIDED TO ALERT THE APPLICANT TO LEGAL REQUIREMENTS OF THE CITY AND OTHER PUBLIC AGENCIES TO WHICH THIS PROJECT MAY BE SUBJECT.

NOTICE OF 90-DAY OPPORTUNITY TO PROTEST FEES, DEDICATIONS, RESERVATIONS, OR OTHER EXACTIONS PERTAINING TO THE APPROVAL OF THIS PERMIT.

This notice is intended to advise the applicant that pursuant to Government Code Section 66000, et seq., the applicant has the opportunity to protest fees, dedications, reservations, and/or exactions required as part of this project approval. The opportunity to protest is limited to a 90-day period after the project is approved.

The ninety (90) day period, in which you may protest the amount of any fee or the imposition of any dedication, reservation, or other exaction required by this approved permit, begins on the date this permit was approved. To be valid, a protest must be in writing pursuant to Government Code Section 66020 and delivered to the Community Development Department within 90 days of the approval date of this permit.

A. The applicant/owner should be aware of the expiration dates and renewing requirements prior to recording the Final Maps.

B. Comply with the requirements of the City of Concord regarding sanitary sewer collection, conveyance, operation and maintenance (https://www.cityofconcord.org/221/Sewer-Information). CITY OF CONCORD (INCLUDING CITY OF CLAYTON) SERVICE AREA PROJECTS - Projects that are located within the City of Concord's service area, which will also include the City of Clayton, must submit for review and approval of the project to the City of Concord. External lateral sewers originating from buildings or facilities will be plan checked and inspected by the City of Concord's Building Division staff. Also, the City of Concord will provide the permit for such work. CCCSD will not plan review or inspect the plumbing installation. Applicants must adhere to the CCCSD Standard Specifications for Design and Construction and the City of Concord Standard Specifications (PDF) (See Section 71 on Page 17)

C. Comply with the requirements of the Contra Costa Water District.

D. Comply with the requirements of the Consolidated Fire Protection District.

E. Comply with the requirements of the Health Services Department, Environmental Health Division.

F. Comply with the requirements of the Contra Costa County Building Inspection Department. Building permits are required prior to the construction of the proposed residences and any retaining wall(s) in excess of three-feet in height.

G. This project may be subject to the requirements of the CDFW. It is the applicant's responsibility to notify the CDFW, P.O. Box 47, Yountville, California 94599, of any

proposed construction within this development that may affect any fish and wildlife resources, per the CDFW Code.

H. This project may be subject to the requirements of the USACE. It is the applicant's responsibility to notify the appropriate district of the USACE to determine if a permit is required, and if it can be obtained.

End of Diablo Meadows Condition of Approval.

CITY OF CLAYTON
PLANNING COMMISSION
RESOLUTION NO.

A RESOLUTION OF THE CLAYTON PLANNING COMMISSION RECOMMENDING ADOPTING THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM FOR THE DIABLO MEADOWS RESIDENTIAL SUBDIVISION PROJECT (ENV-01-20)

WHEREAS, the City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review ENV-01-20; Zoning Map Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20 for the subdivision and development of eighteen single-family residences and 5 parcels on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS, the City prepared an Initial Study/Mitigated Negative Declaration ("IS/MND") and Mitigation Monitoring and Reporting Program (MMRP) to evaluate the potential environmental impacts of the Project, in accordance with Section 15063 of Title 14 of the California Code of Regulations, the California Environmental Quality Act ("CEQA") Guidelines; and

WHEREAS, a draft IS/MND were duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 15, 2020 and ending October 5, 2020; and

WHEREAS, the custodian of the Final IS/MND is the Community Development Department and the Final IS/MND is available for public review at City Hall in the Community Development Department and the MMRP is attached as Exhibit A, the Errata is attached as Exhibit B, and the Response to Comments is attached as Exhibit C to this Resolution, and;

WHEREAS, the Clayton Planning Commission has reviewed the IS/MND for the Project and the comments received during the public review comment period; and

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, on October 27, 2020, the Clayton Planning Commission held a duly-noticed public hearing on the IS/MND and MMRP, received and considered testimony and evidence, both oral and documentary, and approved and adopted the Final IS/MND and MMRP with the attached errata sheets, and Response to Comments; and

NOW, THEREFORE, BE IT RESOLVED, as follows:

1. The foregoing recitals are true and correct.

2. The Clayton Planning Commission hereby finds, on the basis of the whole record before it (including the IS/MND, MMRP, and all comments received) that:

a. The City of Clayton exercised overall control and direction over the CEQA review for the Project, including the preparation of the Final IS/MND and MMRP, and independently reviewed the Final IS/MND and MMRP; and

b. There is no substantial evidence that the Project will have a significant effect on the environment once mitigation measures have been followed; and

c. The Final IS/MND and MMRP reflect the City's independent judgment and analysis.

3. The Clayton Planning Commission hereby approves and adopts the Diablo Meadows Residential Subdivision Initial Environmental Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program.

PASSED AND ADOPTED by the Planning Commission of the City of Clayton at a regular meeting on the ____ day of _____, 2020.

APPROVED: ATTEST:

_____ _____

Chair Matthew Feske
Community Development Director

Exhibit A: Diablo Meadows Residential Subdivision Project Mitigation Monitoring and Reporting Program
Exhibit B: Errata Sheet
Exhibit C: Response to Comments

CITY OF CLAYTON
PLANNING COMMISSION
RESOLUTION NO. __- 2020

A RESOLUTION RECOMMENDING AMENDING THE ZONING MAP AND MUNICIPAL CODE 17.78.040 FOR THE DIABLO MEADOWS RESIDENTIAL SUBDIVISION

(ZOA-02-20)

WHEREAS, the City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review ENV-01-20; Zoning Map & Municipal Code Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20 for the subdivision and development of eighteen single-family residences and 5 parcels on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS, the Planning Commission held a duly-noticed public hearing on October 27, 2020 on amendment of the *Zoning Map* to change the land use R-15 designation to Planned Development of the Diablo Meadows site; and

WHEREAS, the proposed Planned Development in the Diablo Meadows Residential Subdivision is compatible with the existing Planned Development PD, R-12, and R-15 designations adjacent to the project site; and

WHEREAS, the proposed amendment is in general conformance with the *Official Zoning Map*, is in the public interest, and fully complies with the Growth Management Program of the Contra Costa Transportation Authority; and

WHEREAS, a draft IS/MND were duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 15, 2020 and ending October 5, 2020; and

WHEREAS, there is no evidence that the proposed amendment will have the potential for any individual or cumulative adverse effect on fish and wildlife resources or their habitat, as defined in Section 711.2 of the Fish and Wildlife Code.

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

NOW, THEREFORE, BE IT RESOLVED, as follows:

1. The foregoing recitals are true and correct.

2. The Clayton Planning Commission hereby finds, on the basis of the whole record before it that:

A. That the proposed amendment is in general conformance with the General Plan adopted by the City;

B. That the public necessity, conveniences, and general welfare require the adoption of the proposed amendment.

PASSED AND ADOPTED by the Planning Commission of the City of Clayton at a regular meeting on the ____ day of _____, 2020.

APPROVED:

_____
Chair

ATTEST:

_____
Matthew Feske
Community Development Director

Exhibit A: Diablo Meadows Zoning Exhibit
Exhibit B: MC 17.78.040 – Modifications to Exemptions Text

CONTRA COSTA WATER DISTRICT

BOARD OF DIRECTORS
Lisa M. Borba, AICP
PRESIDENT
Connstance Holdaway
VICE PRESIDENT
Ernesto A. Avila, P.E.
Bette Boatmun
John A. Burgh

GENERAL MANAGER
Stephen J. Welch, P.E., S.E.

August 28, 2020

Sent via Hard Copy and Email: cgregory@grounddc.com

Christine Gregory
Community Development Department
City of Clayton
6000 Heritage Trail
Clayton, CA 94517

Subject: Diablo Meadows Project (Project #1078)

Dear Ms. Gregory:

The Contra Costa Water District (CCWD/ District) is in receipt of the City of Clayton's request for comments related to the abovementioned project. The Proposed Project will subdivide 8.68 acres into 18 Residential lots and 5 parcels. This project will require rezoning from R-15 (Single Family Residential) to a Planned Unit District, a Development Permit to construct 18 homes, and a Tree Removal Permit to remove 33 trees. The APNs are 121-090-011-2 and 121-090-016-1.

The project site is located entirely within the service boundary of the CCWD. The District will provide treated (potable) water services to the Project (per CCWD Code of Regulations Section 5). The following are the District's comments:

1) Each of the individual single-family residences (SFR) will require 1-inch services w/ 1-inch meter and 1-inch backflow devices to support the fire sprinkler system. The SFRs that have accessory dwelling units will be required to pay a larger facility reserve charge.

2) CCWD recommends that the water main line in this development be looped.

3) Water service may require above ground backflow prevention devices, which could reduce water pressure to below standard. Proper planning is necessary to ensure backflow prevention devices are located appropriately.

4) Existing water infrastructure will need to be evaluated and any modifications will need to be designed and constructed at the Developer's/Owner's expense.

5) Each premise to be provided domestic service will require its own service connection and meter.

6) A separate meter for landscape irrigation may be required.

7) Relocation and/or abandonment of CCWD facilities may be required which will require a quitclaim of the existing easements. Easements for proposed facilities may also be required.

8) The water main in the street or right of way shall be located opposite the proposed meter locations, with sufficient capacity and pressure as determined by CCWD. The Project/Property may require a main extension or addition of other infrastructure.

9) Relocation of public facilities must be performed by District forces.

10) The State Water Resources Control Board (SWRCB) mandates certain separation requirements of water mains that are parallel to and/or crossing sewer and storm drains. Grading and/or utility plans should be developed to comply with all separation criteria mandated in SWRCB Section 64572.

11) The California Residential Code requires installation of an approved automatic fire sprinkler system in all new residential structures that are submitted to the Building Department after December 31, 2010. Appropriate backflow prevention is required for all services where sprinkler systems are installed.

12) Further information and answers to a number of frequently asked questions regarding water service and District regulations can be found on the District's web site at www.ccwater.com.

Should you require any further clarification on the District's comments, please contact Cindy Sweeney/Engineering Department at 925-688-8014.

Sincerely,

Colleen Knutson for

Christine Schneider
Senior Planner

CS:ck

ATTACHMENT D

ORDINANCE NO.XXX
OCTOBER , 2020

A RESOLUTION OF THE CITY OF CLAYTON CITY COUNCIL APPROVING REZONE OF THE DIABLO MEADOWS RESIDENTIAL SUBDIVISION FROM R-15 TO PLANNED DEVELOPMENT AND AMENDING MUNICIPAL CODE 17.78.040.D FLOOR AREA;

WHEREAS, the City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review ENV-01-20; Zoning Map & Municipal Code Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20 for the subdivision and development of eighteen single-family residences and 5 parcels on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS, it is proposed that the zoning map for the City of Clayton be amended for consistency with the Diablo Meadows Residential Subdivision (the project); and

WHEREAS, it is proposed that the Clayton Municipal Code section 17.78.040.D Exemptions be amended for consistency with the Diablo Meadows Residential Subdivision (the project); and

WHEREAS, the City determined that the Project is subject to the California Environmental Quality Act (CEQA); and

WHEREAS, the City prepared an Initial Study/Mitigated Negative Declaration ("IS/MND") and Mitigation Monitoring and Reporting Program (MMRP) to evaluate the potential environmental impacts of the Project, in accordance with Section 15063 of Title 14 of the California Code of Regulations, the California Environmental Quality Act ("CEQA") Guidelines; and

WHEREAS, a draft IS/MND were duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 15, 2020 and ending October 5, 2020; and

WHEREAS, the Planning Commission held a duly noticed public hearing on October ----, 2020, as required by law to consider all of the information presented by staff, information presented by the Applicant, and public testimony presented in writing and at the meeting.

Findings: Development Plan Permit for a Planned Development District is granted as the Planning Commission and/or City Council made the following findings:

ATTACHMENT D

A. That the application of the Planned Development District, as proposed, will result in a significantly better quality development than would occur with a non-flexible zone and that the requirements for a development permit have been thoroughly evaluated;

B. That project as conditioned complies with the open space requirements of Clayton Municipal Code CMC 17.28.100;

C. That the development is consistent with the City's General Plan;

D. That the development will be compatible with and in harmony and character with the City as a whole and with adjoining areas and uses;

E. That the development's environmental impacts have been reviewed pursuant to CEQA; and

G. The applicant intends to start construction within the allotted time as specified in CMC 17.28.190 (18 months after City Council approval of project).

AND, BE IT FURTHER RESOLVED, that the Planning Commission of the City of Clayton hereby recommends that the City Council adopt an Ordinance amending the City of Clayton Zoning Map and Municipal Code as illustrated and described in Exhibits A & B (incorporated herein by this reference) based upon the following finding:

Rezoning

Finding: The proposed zoning amendments are consistent with the General Plan goals, policies, and implementation programs.

Evidence: The proposed rezoning is consistent with the General Plan, specifically Land Use Objective 1 To retain the rural character of Clayton through a predominance but not exclusive use of single-family, low-density residential development balancing needs of the housing element and preservation of open space.

PASSED AND ADOPTED by the Planning Commission of the City of Clayton at a regular meeting on the ____ day of _____, 2020.

APPROVED:

_____
Chair

ATTEST:

_____
Matthew Feske
Community Development Director

ATTACHMENT D

CITY OF CLAYTON
PLANNING COMMISSION
RESOLUTION NO. ___ - 2020

A RESOLUTION RECOMMENDING APPROVAL OF THE VESTING TENTATIVE MAP (MAP-01-20), DEVELOPMENT PLAN PERMIT (DP-01-20), AND TREE REMOVAL PERMIT (TP-09-20) FOR THE DIABLO MEADOWS RESIDENTIAL SUBDIVISION LOCATED ON THE WEST OF MITCHELL CANYON ROAD AND NORTH/WEST OF HERRIMAN COURT

WHEREAS, the City received an application from DeNova Homes, Inc. requesting review and consideration of an Environmental Review ENV-01-20; Zoning Map Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20 for the subdivision and development of eighteen single-family residences and 5 parcels on approximately 8.6-acres ("Project"). The Diablo Meadows Residential Subdivision project site is located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS, the Planning Commission held a duly-noticed public hearing on October 27, 2020 on the proposed project amendments and plans, for the 18-lot Diablo Meadows Residential Subdivision located on the West of Mitchell Canyon Road and north/west of Herriman Court, APN's: 121-090-011-2 and 121-090-016-1; and

WHEREAS, the proposed Planned Development designation for the project site is consistent with the amendments of the Rezone to Planned Unit Development; and

WHEREAS, the proposed Vesting Tentative Map, Development plan, and Tree removal Plans for the Diablo Meadows Residential Subdivision are compatible with the existing R-12, R-15, and Planned Development designations adjacent to the project site; and

WHEREAS, the proposed Vesting Tentative Map, Development plan, and Tree removal Plans are in general conformance with one another, is in the public interest, and fully complies with the Growth Management Program of the Contra Costa Transportation Authority; and

WHEREAS, a draft IS/MND were duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 15, 2020 and ending October 5, 2020; and

WHEREAS, there is no evidence that the proposed residential subdivision will have the potential for any individual or cumulative adverse effect on fish and wildlife resources or their habitat, as defined in Section 711.2 of the Fish and Wildlife Code.

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

NOW, THEREFORE, BE IT RESOLVED, as follows:

1. The foregoing recitals are true and correct.

2. The Clayton Planning Commission hereby finds, on the basis of the whole record before it that the proposed subdivision, together with its provisions for its design and improvements, is consistent with applicable general or specific plans of the city and conforms to the applicable zoning regulations as amended.

PASSED AND ADOPTED by the Planning Commission of the City of Clayton at a regular meeting on the ____ day of _____, 2020.

APPROVED:

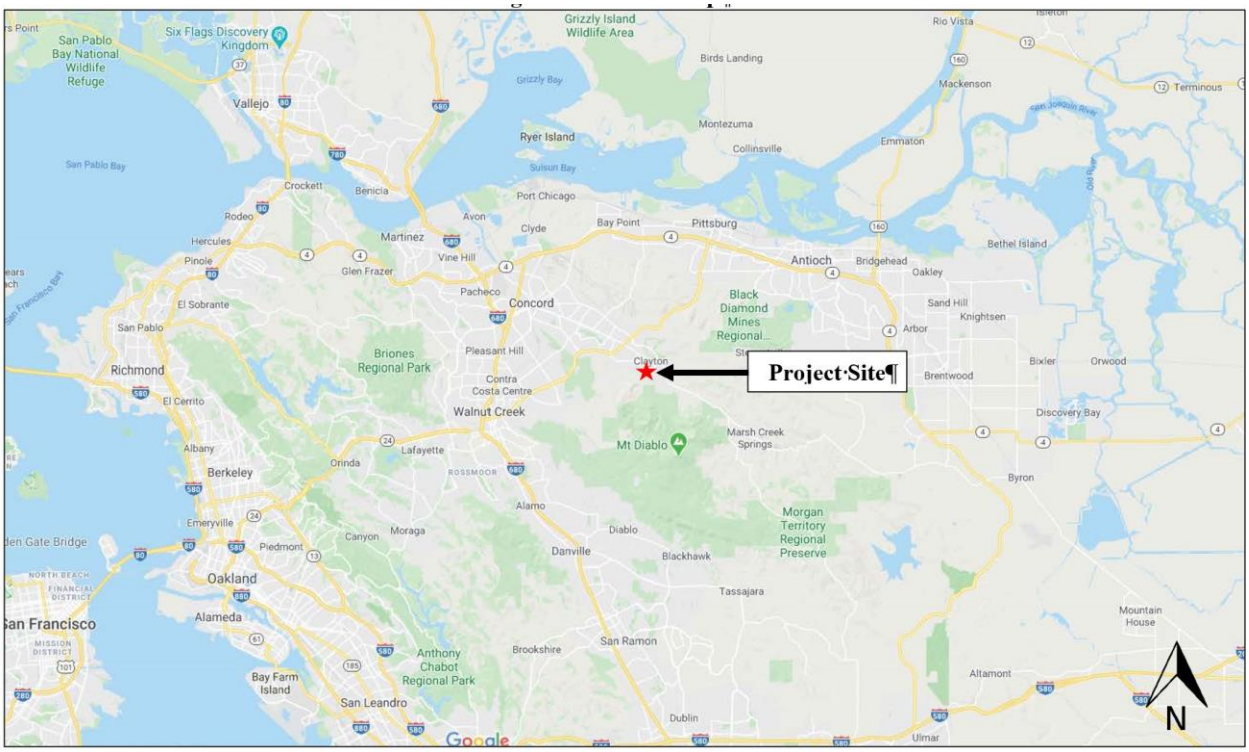
_____
Chair

ATTEST:

_____
Matthew Feske
Community Development Director

ATTACHMENT F Vicinity and Site Map

VICINITY MAP

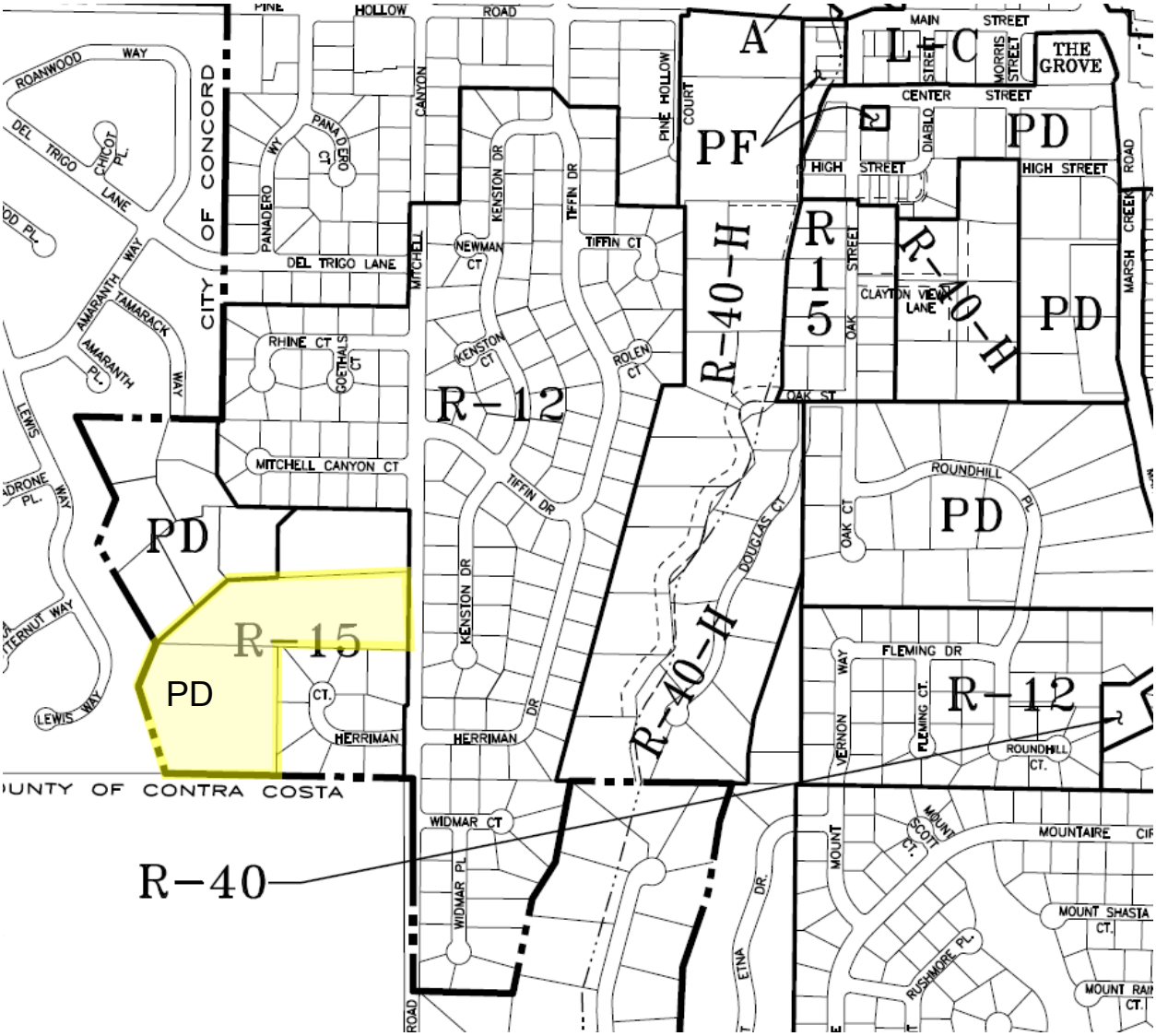


SITE MAP



ATTACHMENT G - EXHIBIT A
Zoning Map Amendment Exhibit

CITY OF CLAYTON
ZONING MAP EXCERPT (JANUARY 2017)
Proposed "Diablo Canyon Site" on Mitchell Canyon Road
Zoning Designation: R-15



Attachment H

EXHIBIT B

Text Modification to Clayton Municipal Code Chapter 17.78 - RESIDENTIAL FLOOR AREA Specifically adding Diablo Meadows Subdivision Tract 9536 to section 17.78.040.D – Exemptions (modifications in yellow highlight)

17.78.040 - Exemptions.

The following types of projects are exempt from the building footprint and floor area limitations of this Chapter 17.78.

A. Fill-in Additions. Additions of newly created habitable space, which are to be fully contained within the building envelope of any existing conforming or nonconforming single-family residential building, as determined by the Community Development Director. Examples include excavation and improvement of areas behind the skirt walls of hillside residences, improvement of attic spaces, and limited exterior changes such as the addition of dormers (not exceeding interior height of eight (8) feet), windows and doors.

B. Small Additions. Any addition or accessory building of less than two hundred (200) square feet, provide that no approvals for either a new residence, an exterior addition, or a small addition exemption have been granted within the past five (5) years from the time of the subject application, and a variance is not requested.

C. Damaged or Destroyed Buildings. Any legally constructed building which is destroyed or damaged by fire, flood, wind, earthquake, war, riot, or other calamity or act of God may be reconstructed to its original building footprint and floor area in substantially the same location.

D. Designated Planned Developments. Residences in the Chaparral Springs (Tracts 7303 and 7066), Dana Ridge (Tract 4504), Diablo Ridge (Tract 7766 (exclusive of detached residences on Condor Way and Keller Ridge Drive) and Tract 7767), Marsh Creek Park Villas (Tract 4240), ~~and~~ Stranahan (Tract 7887), and Diablo Meadows (Tract 9536) Planned Developments. (Any additions or accessory buildings in these Planned Developments will continue to be subject to the site plan review requirements and the development standards originally approved for the respective Planned Development.)

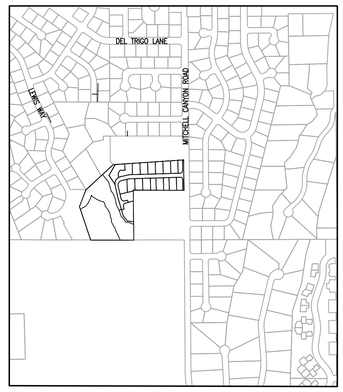
(Ord. 375, 2004)

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

NOTES AND SECTIONS
SCALE: AS SHOWN APRIL, 2020



SITE PLAN
SCALE: 1" = 60'



VICINITY MAP
SCALE: 1"=500'

BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

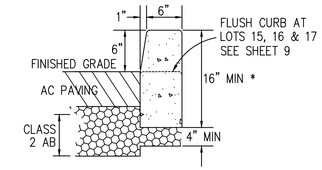
TITLE REPORT:
FIRST AMERICAN TITLE COMPANY, ORDER NO. 0131-623819ALA
DATED: DECEMBER 13, 2019 AMENDED: JANUARY 27, 2020

LEGEND

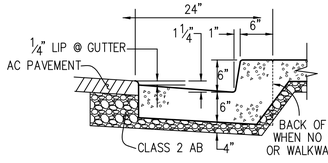
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		CURB AND GUTTER (TYPE AS NOTED)
		CENTERLINE
		UTILITY LINE (TYPE & SIZE AS NOTED)
○	●	MANHOLE
		STORM DRAIN PIPE
□	■	STORM DRAIN INLET
		WATER MAIN
		FIRE HYDRANT
		BLOW OFF
		ELECTROLIER
777		CONTOURS
× 777.0	× TC 777.70	SPOT ELEVATIONS

ABBREVIATIONS:

AB	AGGREGATE BASE	JT	JOINT TRENCH
AC	ASPHALT CONCRETE	LP	LOW POINT
CL	CENTER LINE	MH	MANHOLE
CB	CATCH BASIN	PL	PROPERTY LINE
CO	CLEAN OUT	PUE	PUBLIC UTILITY EASEMENT
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
EX	EXISTING	R/W	RIGHT OF WAY
FC	FACE OF CURB	SD	STORM DRAIN
FF	FINISHED FLOOR	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSCO	SANITARY SEWER CLEANOUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	TC	TOP OF CURB
GR	GRATE ELEVATION	TFC	TOP OF FLUSH CURB
HP	HIGH POINT	TYP	TYPICAL
		W	WATER LINE



6" VERTICAL CURB & FLUSH CURB
NOT TO SCALE



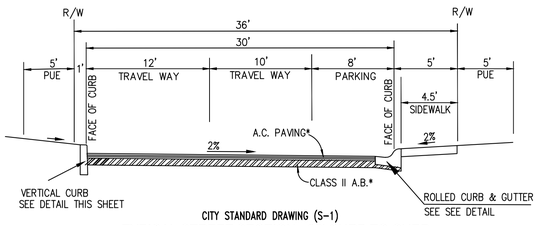
STANDARD C1-1 CURB, GUTTER & WALK
SEE CITY STANDARD PLAN C1-1 FOR DETAILS
NOT TO SCALE

GENERAL NOTES

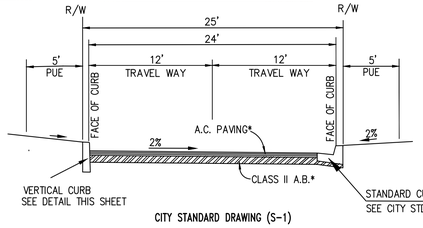
1. OWNER: THE FRED CLAYTON TRUST
   DEVELOPER: DENOVA HOMES, 1500 WILLOW PASS COURT, CONCORD, CA 94520, CONTACT: TRENT SANSON
   CIVIL ENGINEER : MERIDIAN ASSOCIATES, INC., 1300A WILLOW PASS COURT, CONCORD, CA. 94520, CONTACT: HOMAYUN KARIM
   SOILS ENGINEER : STEVENS, FERRONE & BAILEY, 1600 WILLOW PASS COURT, CONCORD, CA 94520, (PROJECT NO. 155-90 DATED: FEBRUARY 28, 2020), CONTACT: KEN FERRONE
2. ASSESSOR'S PARCEL NUMBERS : 121-090-011-2 AND 121-090-016-1
3. EXISTING LAND USE : VACANT
4. PROPOSED LAND USE : SINGLE FAMILY RESIDENTIAL
5. SITE AREA : GROSS AREA FOR ALL PARCELS: 8.68 ACRES± NET ACREAGE INCLUDED IN PUD: 4.61 ACRES±
6. NUMBER OF LOTS : 18 RESIDENTIAL LOTS & 5 PARCELS
7. GENERAL PLAN : LOW DENSITY RESIDENTIAL (3.1 TO 5.0 UNITS/AC)
8. EXISTING ZONING : R-15
   PROPOSED ZONING: PUD
9. DENSITY (ALLOWED): 3.1 – 5.0 UNITS/AC
   DENSITY PROPOSED: NET DENSITY IN PUD: 3.9 UNITS/ACRE
10. UTILITY PROVIDERS
    WATER : CONTRA COSTA WATER DISTRICT (CCWD)
    GAS & ELECTRIC : PACIFIC GAS & ELECTRIC
    SEWER : CITY OF CONCORD
    TELEPHONE : ATT
    CABLE: COMCAST CABLE
    ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND. ALL STORM DRAINS, SANITARY SEWERS AND WATER MAINS SHALL ADHERE TO THE MINIMUM SIZES SLOPES, AND SPECIFICATIONS OF THE GOVERNING AGENCY'S STANDARDS.
11. TOPOGRAPHY: EXISTING TOPOGRAPHY PROVIDED BY VERTICAL MAPPING RESOURCES AND A FIELD SURVEY BY MERIDIAN ASSOCIATES, INC. DATED AUGUST 8, 2019. CONTOUR INTERVAL IS 1 FOOT.
12. BOUNDARY: BOUNDARY AS SHOWN IS BASED ON RECORD INFORMATION ONLY. FINAL BOUNDARY SHALL BE BASED ON A FIELD SURVEY.
13. STREETS: ALL PROPOSED NEW STREETS ARE PUBLIC
14. FLOOD ZONE: THE SITE IS DESIGNATED AS ZONE X (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FEMA FIRM MAP PANEL 442 OF 725 (06001C0442G) DATED AUGUST 3, 2009.
15. GRADING: GRADES SHOWN HEREON ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.
16. DIMENSIONS: HOUSE FOOTPRINTS, LOT DIMENSIONS AND AREA(S) SHOWN HEREON ARE APPROXIMATE AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SHEET INDEX

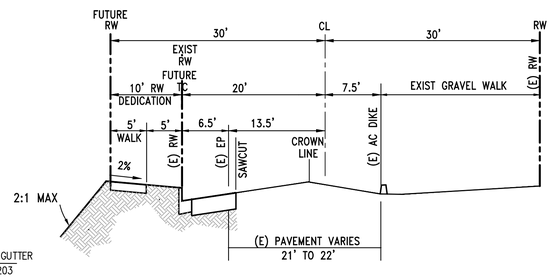
SHEET	DESCRIPTION
C-1	NOTES AND STREET SECTIONS
C-2	BOUNDARY AND EXISTING CONDITION
C-3	GRADING AND DRAINAGE PLAN
C-4	UTILITY PLAN
C-5	PRELIMINARY DEVELOPMENT PLAN
C-6	CONCEPTUAL STORM WATER MANAGEMENT PLAN



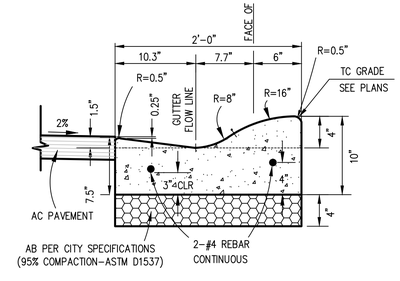
CITY STANDARD DRAWING (S-1)
TYPICAL STREET SECTION - 30' CURB TO CURB
NOT TO SCALE



CITY STANDARD DRAWING (S-1)
TYPICAL STREET SECTION - 24' CURB TO CURB (NO PARKING)
NOT TO SCALE



MITCHELL CANYON ROAD TYPICAL SECTION
NOT TO SCALE



ROLLED CURB AND GUTTER
NOT TO SCALE

DATE: MARCH, 2020				
SCALE: AS SHOWN				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

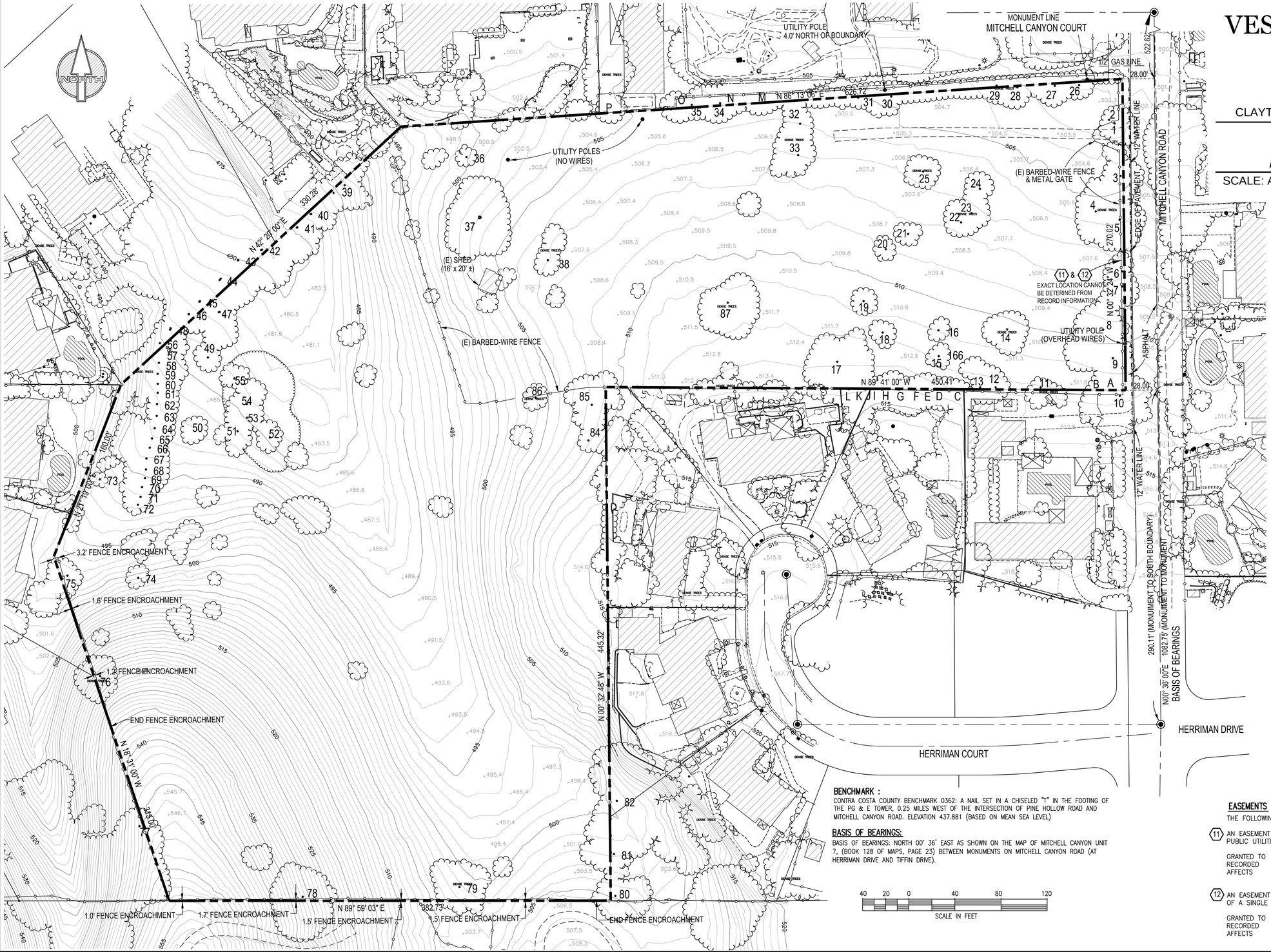
SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
NOTES AND STREET SECTIONS
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-1 OF 6 SHEETS
JOB NO. 18-16-00

M:\jobs\18-16-00\TM\TM C-1 TITLE.dwg Plot Date: 7-17-20

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

BOUNDARY AND EXISTING CONDITION
SCALE: AS SHOWN APRIL, 2020



BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

LEGEND & ABBREVIATIONS

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EASEMENT
- STORM DRAIN LINE
- SEWER LINE
- FOUND STANDARD CITY STREET MONUMENT
- FOUND SURVEY MONUMENT AS NOTED
- MANHOLE (TYPE AS NOTED)
- CATCH BASIN (ADJACENT TO MANHOLE TYPICAL)
- CATCH BASIN(S)
- WATER VALVE
- STREET LIGHT (PRIVATE)
- STREET LIGHT (PUBLIC)
- UTILITY BOX/VAULT (TYPE AS NOTED)
- 16 • TREE TRUNK LOCATION (SEE ARBORIST REPORT)
- ○ S. SIGN

BFP	BACKFLOW PREVENTER	JP	POWER POLE (JOINT SERVICE)
C.	CONCRETE	SD	STORM DRAIN
CB	CATCH BASIN (STORM DRAIN INLET)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	SF	SQUARE FEET
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL (PG&E)	SS	SANITARY SEWER
(E)	EXISTING	SSMH	SANITARY SEWER MANHOLE
F	FIRE (WATER) SERVICE LINE	T	TELEPHONE (COMMUNICATIONS, SBC, PG&E)
FDC	FIRE DEPARTMENT CONNECTION	W	WATER MAIN
FH	FIRE HYDRANT	WM	WATER METER
G	GAS	WV	WATER VALVE
GV	GAS VALVE		

EASEMENTS (NUMBERING AND LANGUAGE CORRESPONDS WITH THE TITLE REPORT)
THE FOLLOWING EASEMENTS AFFECT PARCEL 1:

(11) AN EASEMENT FOR CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF PUBLIC UTILITIES AND INCIDENTAL PURPOSES.
GRANTED TO : PACIFIC TELEPHONE AND TELEGRAPH COMPANY
RECORDED : SEPTEMBER 16, 1914 IN BOOK 227 OF DEEDS, PAGE 283
AFFECTS : THE NORTHWEST 1/4 OF SECTION 14 (DESCRIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

(12) AN EASEMENT FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF A SINGLE LINE OF POLES, TELEPHONE AND TELEGRAPH LINES AND INCIDENTAL PURPOSES.
GRANTED TO : VALLEY PIPE LINE COMPANY, A CALFORNIA CORPORATION
RECORDED : MAY 20, 1915 IN BOOK 241 OF DEEDS, PAGE 331
AFFECTS : A PORTION OF THE NORTHWEST 1/4 OF SECTION 14 (DESCIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN REDNICK No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
BOUNDARY AND EXISTING CONDITION
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-2 OF 6 SHEETS
JOB NO. 18-16-00

SITE PLAN

M:\Jobs\18-16-00\TM\TM C-2 BOUNDARY AND EXIST COND.dwg Plot Date:7-17-20

VESTING TENTATIVE MAP

FOR

SUBDIVISION 9536

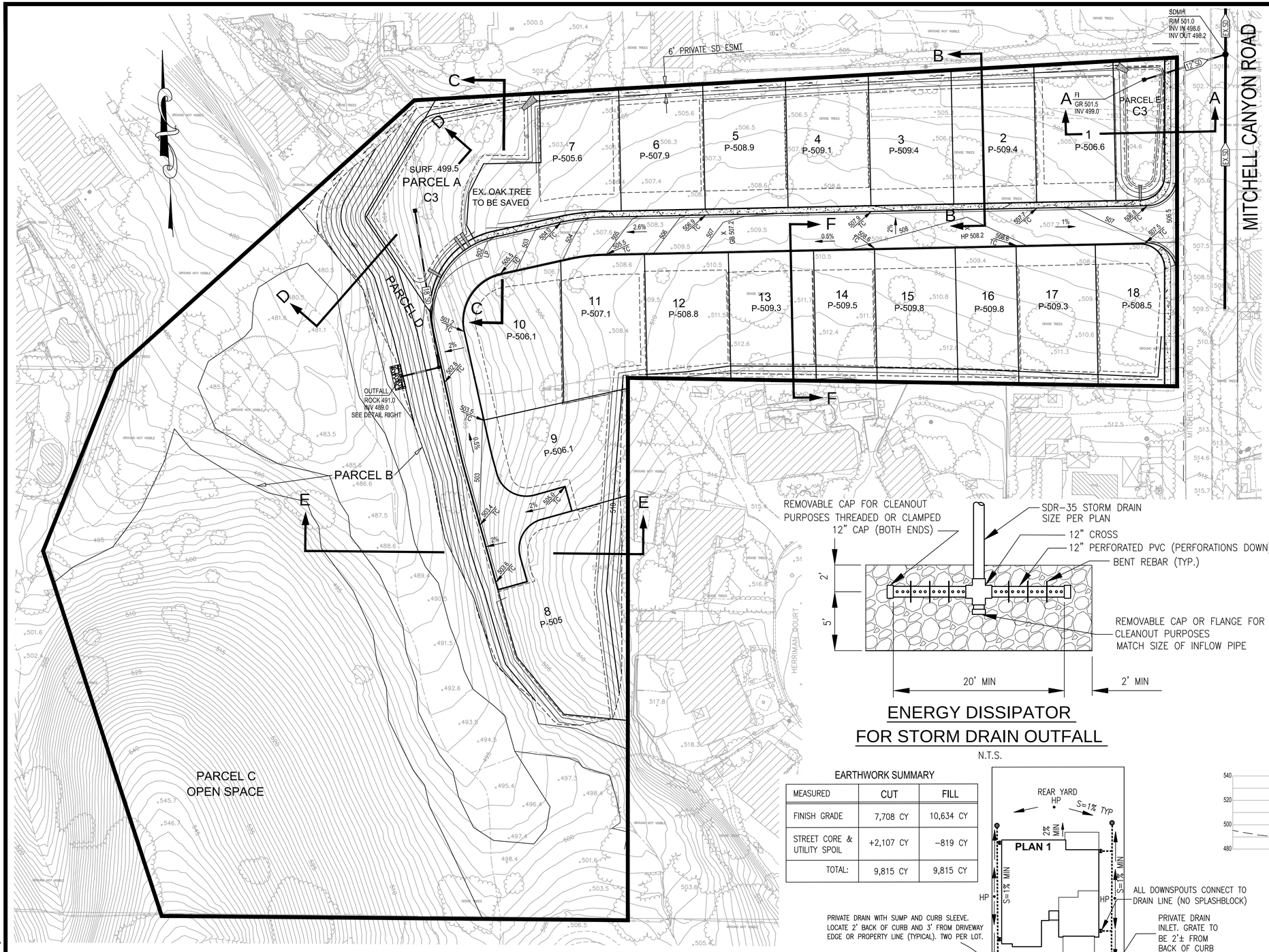
DIABLO MEADOWS

CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

APRIL, 2020
UPDATED: JULY, 2020



GRADING & DRAINAGE PLAN

SCALE: 1" = 40' HORIZONTAL & VERTICAL

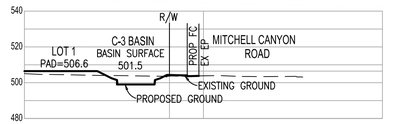
ENERGY DISSIPATOR
FOR STORM DRAIN OUTFALL

N.T.S.

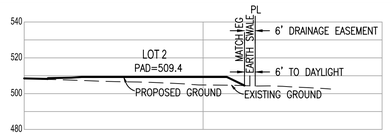
EARTHWORK SUMMARY

MEASURED	CUT	FILL
FINISH GRADE	7,708 CY	10,634 CY
STREET CORE & UTILITY SPOIL	+2,107 CY	−819 CY
TOTAL:	9,815 CY	9,815 CY

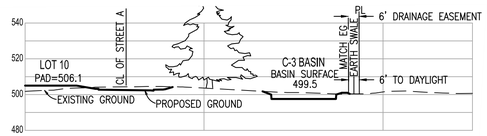
TYPICAL LOT DRAINAGE



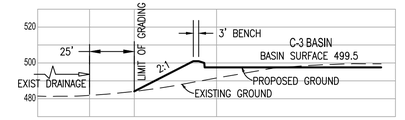
SECTION A-A



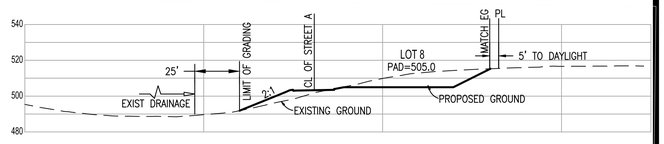
SECTION B-B



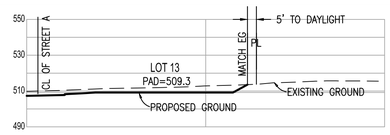
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER
JOHN RZONCA
No. C38710
EXP: 3/31/2021
CIVIL
STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY GRADING & DRAINAGE PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. **C-3** OF 6 SHEETS

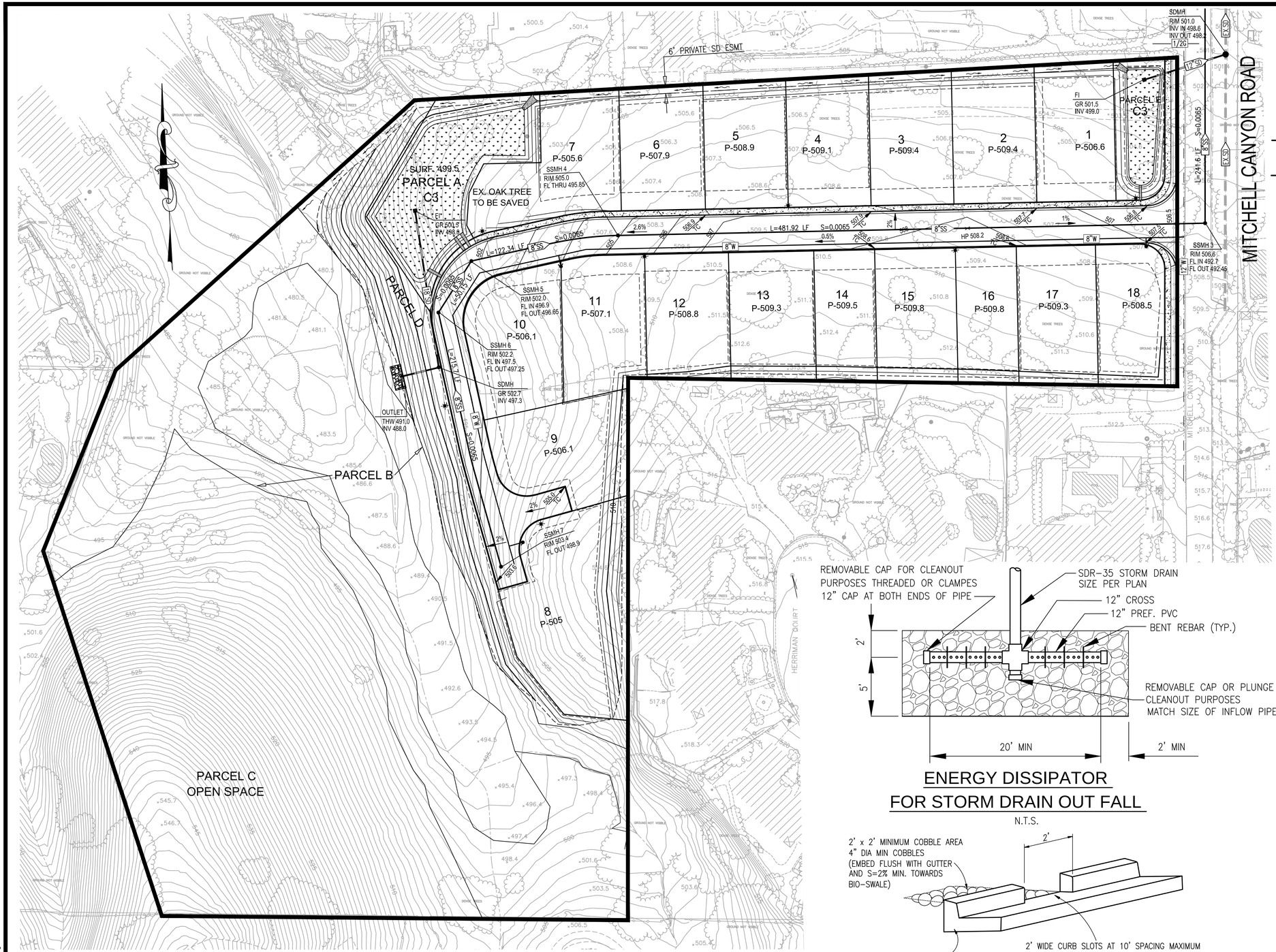
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-3 GRADING.dwg Plot Date:7-22-20

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY UTILITY PLAN

SCALE: AS SHOWN — APRIL, 2020
UPDATED: OCTOBER, 2020

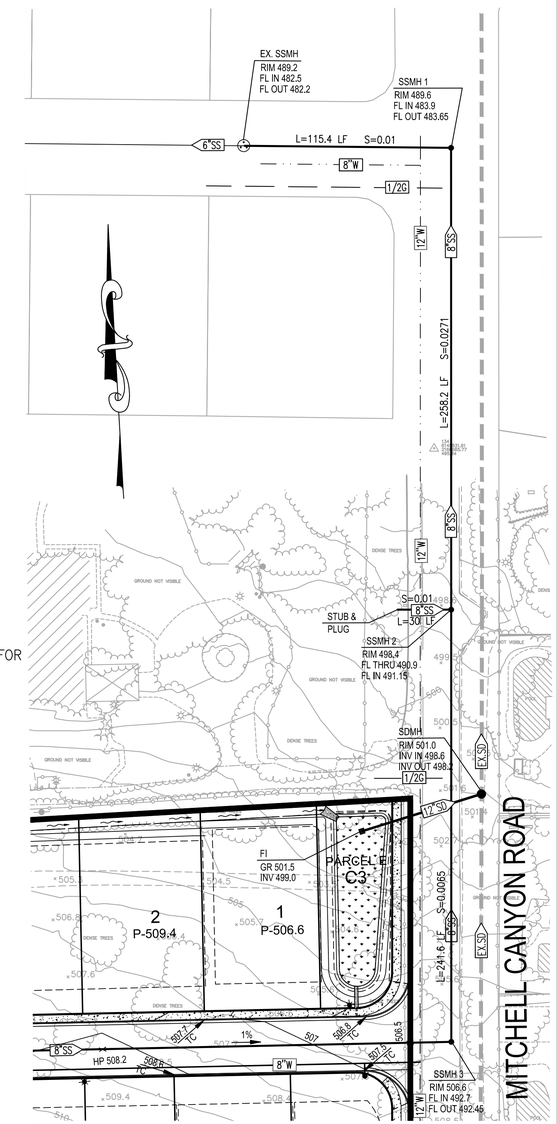


40 20 0 40 80 120
SCALE IN FEET

PRELIMINARY UTILITY PLAN
SCALE: 1" = 40'

ENERGY DISSIPATOR
FOR STORM DRAIN OUT FALL
N.T.S.

TYPICAL CURB SLOT ADJACENT TO BIO-SWALES
NOT TO SCALE



DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER — JOHN RZONCA — No. C38710 EXP: 3/31/2021 — CIVIL — STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 — TENTATIVE MAP — DIABLO MEADOWS

PRELIMINARY UTILITY PLAN

CLAYTON — CONTRA COSTA COUNTY — CALIFORNIA

SHEET NO. **C-4** OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-4 UTILITY.dwg Plot Date:10-16-20

VESTING TENTATIVE MAP

FOR

SUBDIVISION 9538

DIABLO MEADOWS

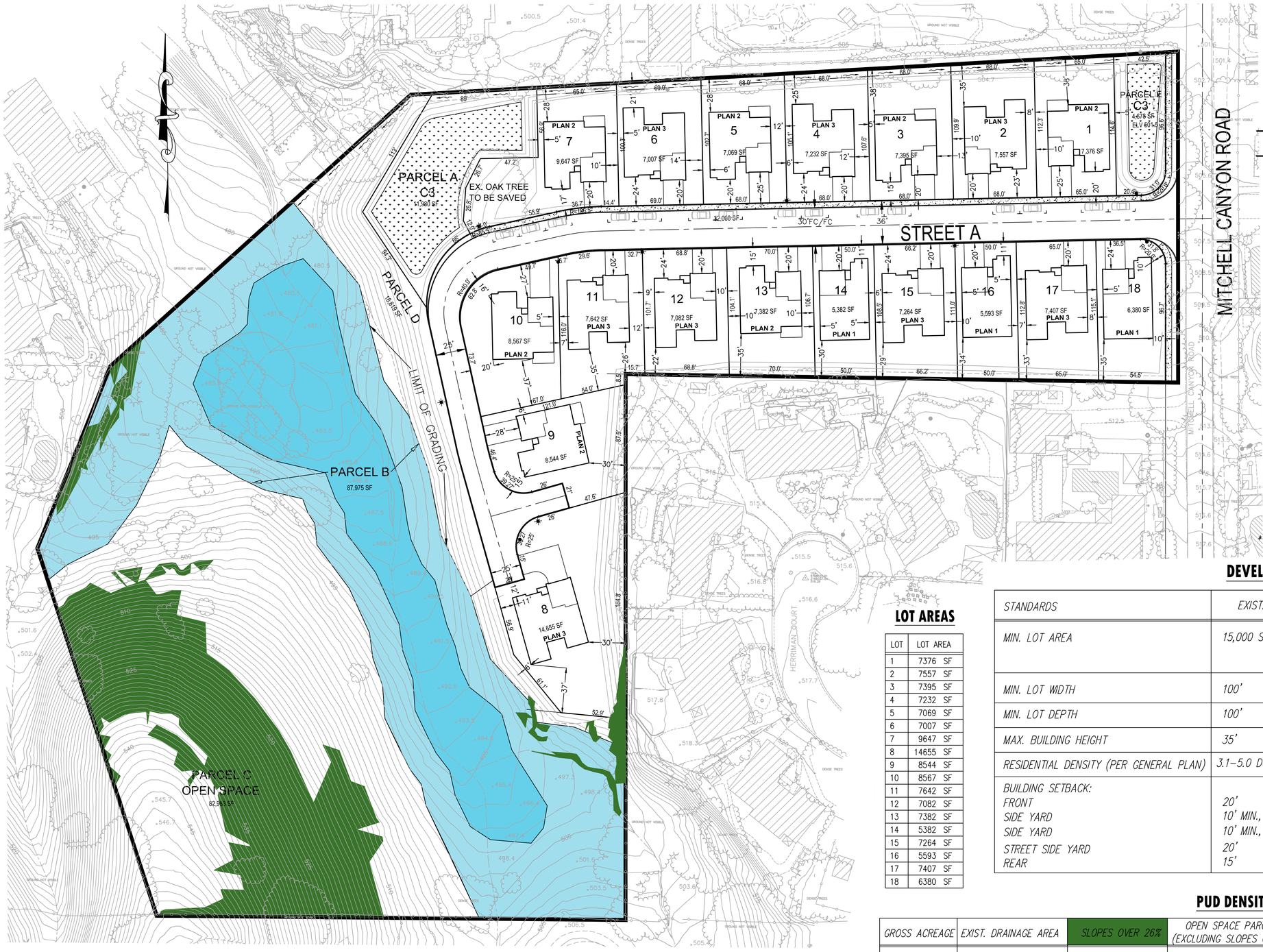
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY DEVELOPMENT PLAN

SCALE: AS SHOWN

APRIL, 2020

UPDATED: OCTOBER, 2020



SUMMARY OF PRODUCT TYPE & SETBACKS

PLAN TYPE	NUMBER OF UNITS	MINIMUM SETBACKS			
		FRONT		SIDES	REAR
		LIVING AREA	GARAGE		
1	3	10'	20'	5'/5'	15'
2	7	10'	20'	5'/10'	15'
3	8	10'	20'	5'/10'	15'
TOTAL	18				

PARKING SUMMARY

PARKING TYPE	NUMBER OF SPACES
*ON STREET	15
DRIVEWAY	36
GARAGE	36
TOTAL	87

* PARALLEL PARKING DIMENSION IS 8'x22'

PARCEL AREAS

PARCEL	AREA	
A	0.28 AC	C3 BASIN
B	2.02 AC	EXIST. DRAINAGE AREA
C	1.91 AC	OPEN SPACE
D	0.43 AC	OPEN SPACE
E	0.11 AC	C3 BASIN
LOTS 1–18	3.19 AC	SINGLE FAMILY
STREET R/W	0.74 AC	
TOTAL	8.68 AC	

LOT AREAS

LOT	LOT AREA
1	7376 SF
2	7557 SF
3	7395 SF
4	7232 SF
5	7069 SF
6	7007 SF
7	9647 SF
8	14655 SF
9	8544 SF
10	8567 SF
11	7642 SF
12	7082 SF
13	7382 SF
14	5382 SF
15	7264 SF
16	5593 SF
17	7407 SF
18	6380 SF

DEVELOPMENT STANDARDS

STANDARDS	EXIST. R-15	PROPOSED (REZONE)
MIN. LOT AREA	15,000 SQ. FT.	5,000 SQ. FT (LOTS 14, 16 & 18) 7,000 SQ. FT (LOTS 1–13, 15 & 17 7,741 SQ. FT. (AVG)
MIN. LOT WIDTH	100'	50' (LOTS 14, 16 & 18 ONLY) TYPICAL LOT WIDTH APPROX. 65'
MIN. LOT DEPTH	100'	90' (TYPICAL LOT DEPTH APPROX. 100')
MAX. BUILDING HEIGHT	35'	35'
RESIDENTIAL DENSITY (PER GENERAL PLAN)	3.1–5.0 DU/NET ACRE (MD)	3.90 DU/NET ACRE
BUILDING SETBACK: FRONT SIDE YARD SIDE YARD STREET SIDE YARD REAR	 20' 10' MIN., 25' AGGREGATE 10' MIN., 25' AGGREGATE 20' 15'	 20' GAR / 10' LIVING AREA (VARIES BETWEEN 11'–24') 5' MIN., 10' AGGREGATE (LOTS 14, 16 & 18) 5' MIN., 15' AGGREGATE (LOTS 1–13, 15 & 17) 10' 15' (TYPICAL REAR SETBACK/YARD IS GREATER RHAN 20')

PUD DENSITY TABLE

GROSS ACREAGE	EXIST. DRAINAGE AREA	SLOPES OVER 26%	OPEN SPACE PARCEL C (EXCLUDING SLOPES OVER 26%)	*NET ACREAGE	NO. OF UNITS	DU/GROSS ACRE	DU/*NET ACRE
8.68± AC	2.02± AC	0.87± AC	1.17± AC	*4.62± AC	18	DU/AC	3.9 DU/AC

* NET ACREAGE INCLUDES STREETS, OPEN SPACE PARCEL D (AREAS LESS THAN 26% SLOPE), AND C-3 BASINS AREAS PER MUNI CODE 17.22

40 20 0 40 80 120

SCALE IN FEET

PRELIMINARY DEVELOPMENT PLAN

SCALE: 1" = 40'

M:\Jobs\18-16-00\TM\TM C-5 DEVELOPMENT PLAN.dwg Plot Date:10-16-20

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY DEVELOPMENT PLAN & CONSTRAINTS MAP

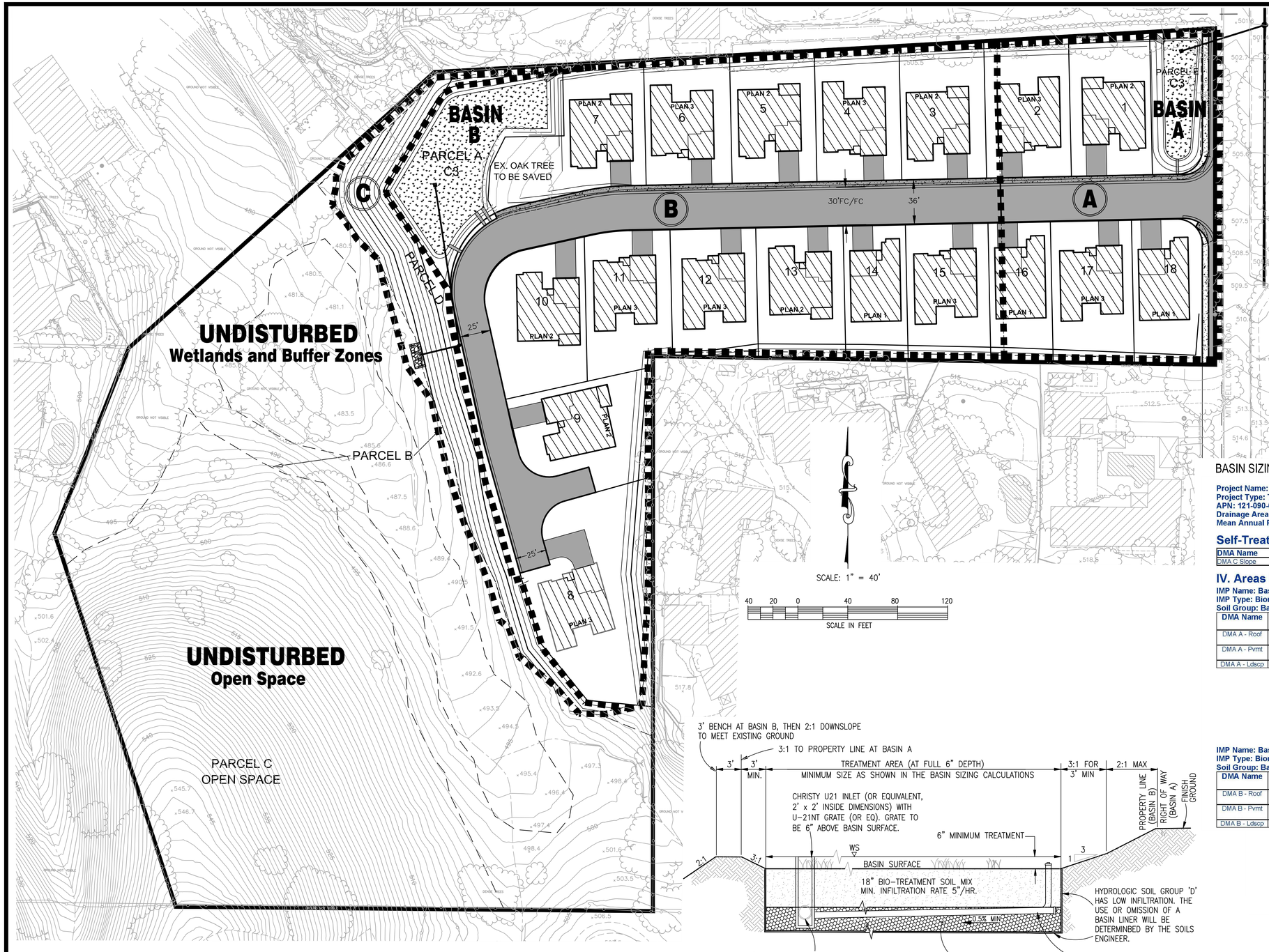
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-5 OF 6 SHEETS

JOB NO. 18-16-00

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

STORMWATER CONTROL PLAN
SCALE: AS SHOWN
APRIL, 2020
UPDATED: OCTOBER, 2020



PLAN VIEW
SCALE: 1" = 40'

SCALE: 1" = 40'

40 20 0 40 80 120
SCALE IN FEET

BIORETENTION BASIN - TYPICAL SECTION
NOT TO SCALE

LEGEND

- A — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PAVEMENT
- ROOFTOPS (INCLUDES WALKS AND PATIOS)
- LANDSCAPE (NO HATCH)
- RETENTION AREA (BASIN)

BASIN SIZING CALCULATIONS

Project Name: Diablo Canyon
Project Type: Treatment and Flow Control
APN: 121-090-011 and -016
Drainage Area: 206,020
Mean Annual Precipitation: 18.7

Self-Treating DMAs

DMA Name	Area (sq ft)
DMA C Slope	17,690.0

IV. Areas Draining to IMPs

IMP Name: Basin A
IMP Type: Bioretention Facility
Soil Group: Basin A

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing
DMA A - Roof	12,730	Conventional Roof	1.00	12,730	
DMA A - Pvmt	9,410	Concrete or Asphalt	1.00	9,410	
DMA A - Ldscp	21,230	Landscape	0.70	14,861	
			Total	37,001	

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	1,972	1,980
Surface Volume	0.042	1.066	1,657	1,660
Subsurface Volume	0.055	1.066	2,169	2,180
Maximum Underdrain Flow (cfs)				0.07
Orifice Diameter (in)				1.73

IMP Name: Basin B
IMP Type: Bioretention Facility
Soil Group: Basin B

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing
DMA B - Roof	33,610	Conventional Roof	1.00	33,610	
DMA B - Pvmt	26,710	Concrete or Asphalt	1.00	26,710	
DMA B - Ldscp	74,770	Landscape	0.70	52,339	
			Total	112,659	

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	6,005	7,870
Surface Volume	0.042	1.066	5,044	5,050
Subsurface Volume	0.055	1.066	6,605	6,620
Maximum Underdrain Flow (cfs)				0.23
Orifice Diameter (in)				3.06

SWCP FIGURE A

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY STORMWATER CONTROL PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-6 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-6 SWCP.dwg Plot Date:10-15-20

ATTACHMENT J - DESIGN REVIEW BOOKLET WITH ARCHITECTURAL PLANS

DIABLO MEADOWS

CLAYTON, CALIFORNIA



PLAN 1D - TUSCAN

PLAN 2xB - CRAFTSMAN

PLAN 2C - FARMHOUSE

PLAN 3A - SPANISH

SHEET INDEX

T-1	COVER SHEET	A-8	PLAN 2X - SECOND FLOOR PLAN
A-1	PLAN 1 - FLOOR PLAN	A-9	PLAN 2X - ELEVATION 'A' (SPANISH)
A-2	PLAN 1 - ELEVATION 'D' (TUSCAN)	A-10	PLAN 2X - ELEVATION 'B' (CRAFTSMAN)
A-3	PLAN 2 - FLOOR PLAN	A-11	PLAN 2X - ELEVATION 'C' (FARMHOUSE)
A-4	PLAN 2 - ELEVATION 'A' (SPANISH)	A-12	PLAN 3 - FLOOR PLAN
A-5	PLAN 2 - ELEVATION 'B' (CRAFTSMAN)	A-13	PLAN 4 - ELEVATION 'A' (SPANISH)
A-6	PLAN 2 - ELEVATION 'C' (FARMHOUSE)	A-14	PLAN 4 - ELEVATION 'B' (CRAFTSMAN)
A-7	PLAN 2X - FLOOR PLAN	A-15	PLAN 4 - ELEVATION 'C' (FARMHOUSE)

DeNova Homes
Building a Better Community®

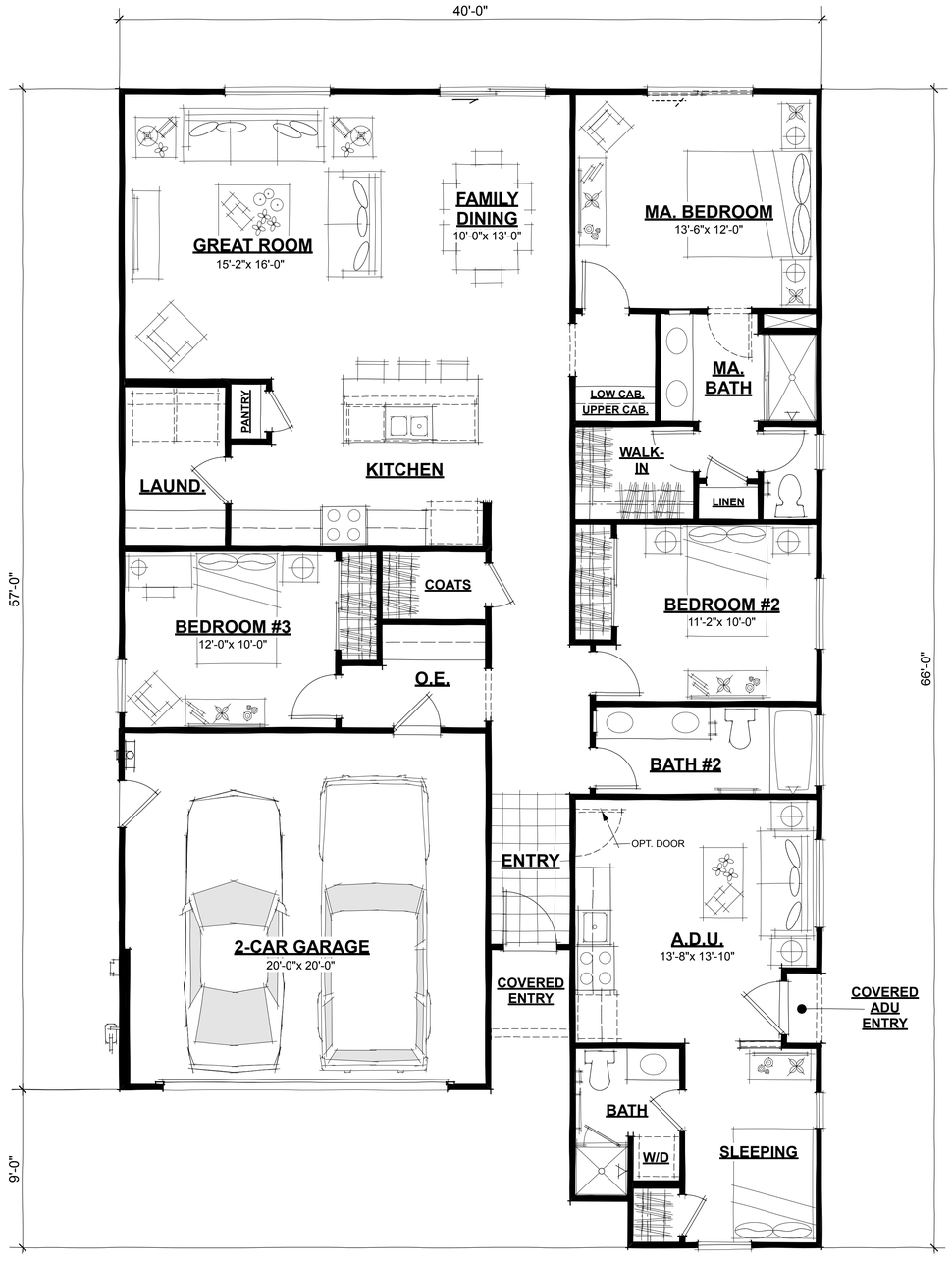
TYPICAL STREETSCAPE

940 Tyler Street #19
Benicia, CA 94510
Phone: (707 746-6586

OAG ARCHITECTS, INC.

2005 04-22-20

SHEET T-1



FLOOR PLAN (1580 S.F.)

ACCESSORY DWELLING UNIT (347 S.F.)

DeNova Homes
Building a Better Community®

PLAN 1 (140-1927)

DIABLO MEADOWS

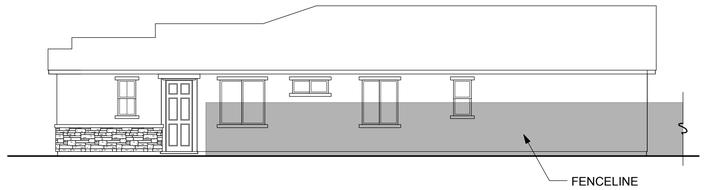
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

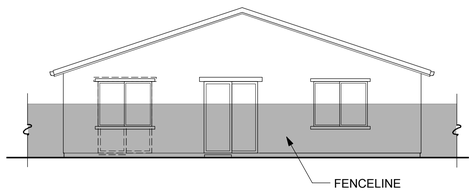
OAG ARCHITECTS, INC.

2005 4-22-20

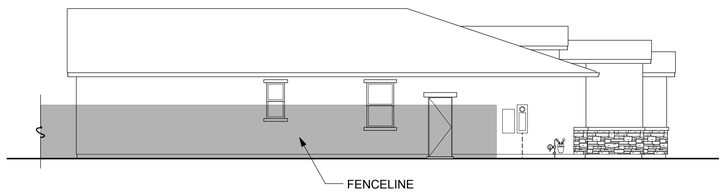
SHEET A-1



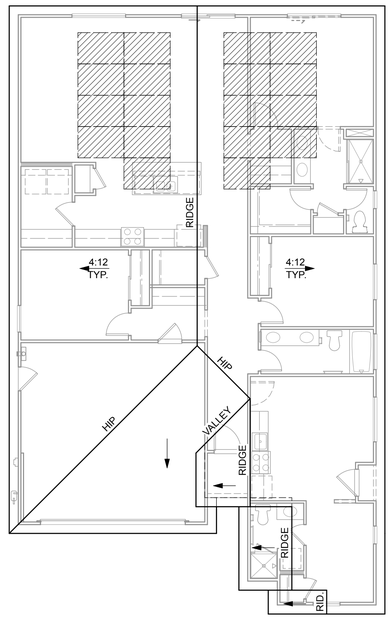
RIGHT SIDE "A"



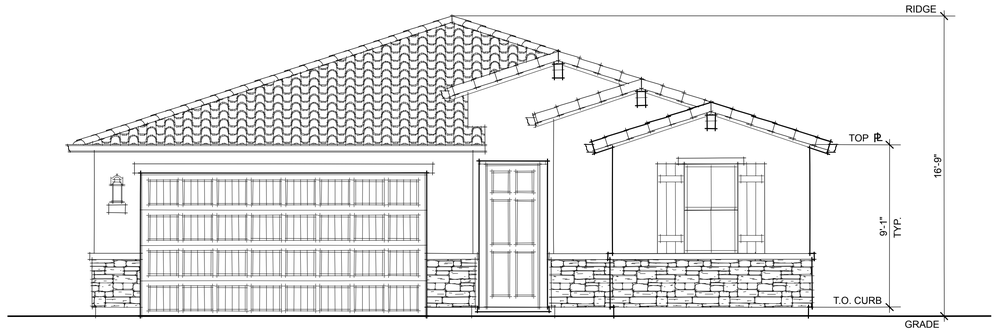
REAR "A"



LEFT SIDE "A"



ROOF PLAN "A"



FRONT ELEVATION "A"
(TUSCAN)

TUSCAN

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- DECORATIVE FOAM OUTLOOKERS
- PLANK AND BATTEN SHUTTERS
- CULTURED STONE VENEER
- THEME SPECIFIC GARAGE DOOR
- PROFILE TILE GUTTER
- CONCRETE TILE ROOFING - LOW PROFILE "S"

INDICATES RECESS

PLAN 1

DIABLO MEADOWS

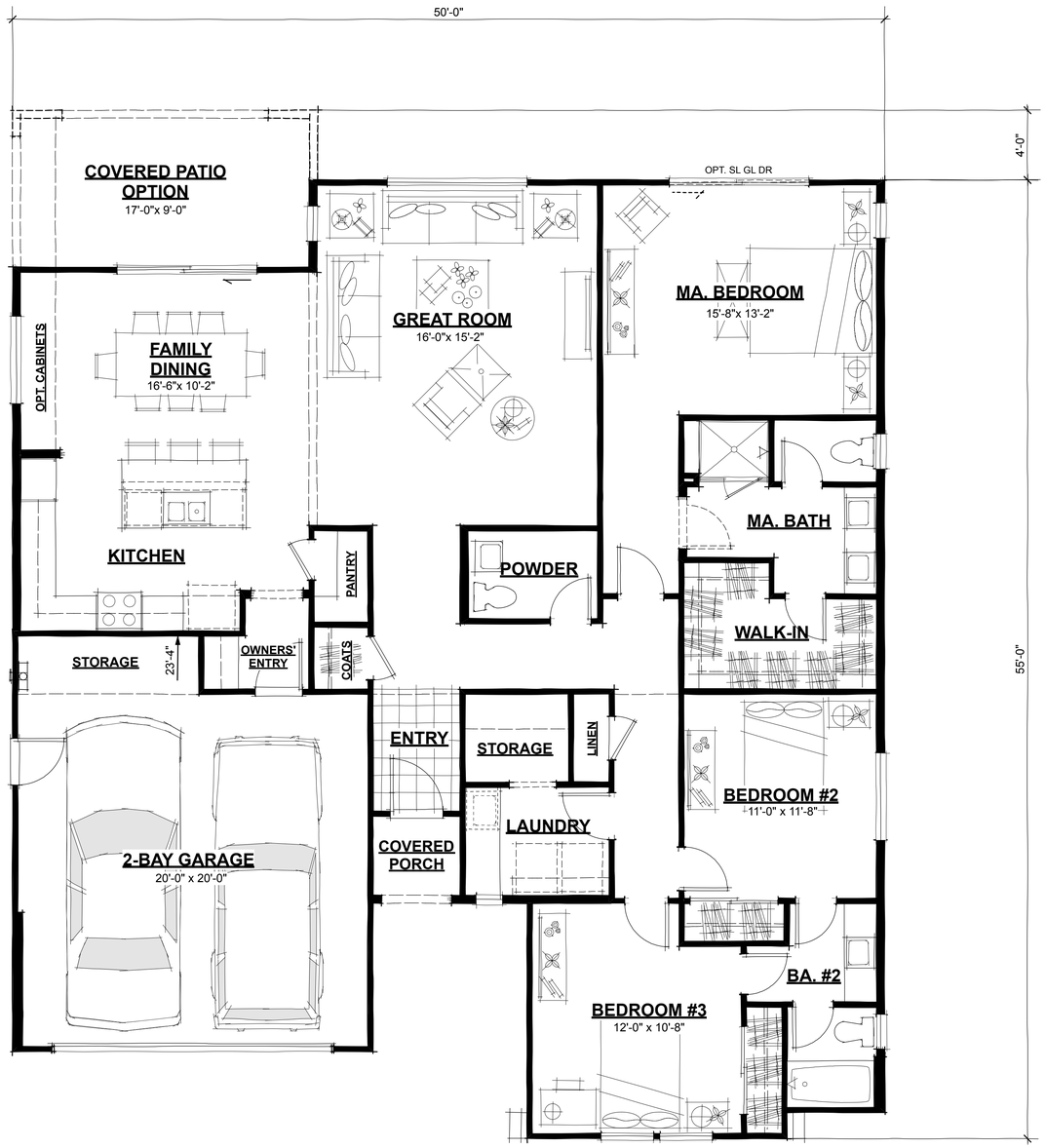
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

OAG ARCHITECTS, INC.

2005 4-22-20

SHEET A-2



FLOOR PLAN (1952 S.F.)

DeNova Homes
Building a Better Community®

PLAN 2 (150-1952)

DIABLO MEADOWS

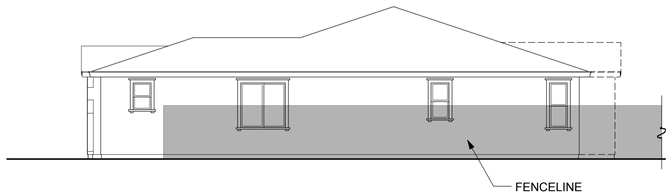
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

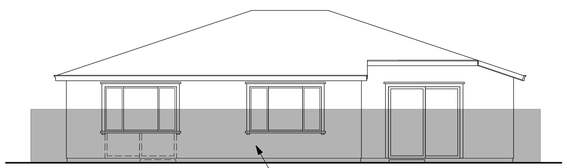
OAG ARCHITECTS, INC.

2005 4-22-20

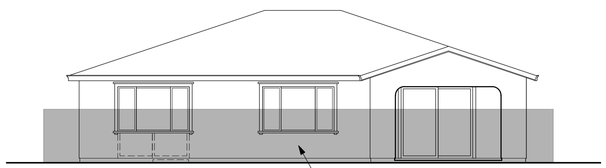
SHEET A-3



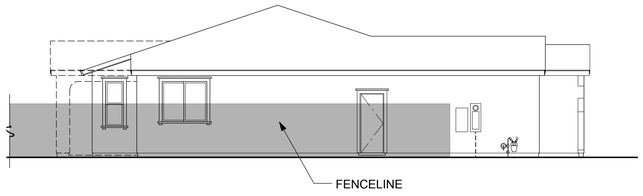
RIGHT SIDE "A"



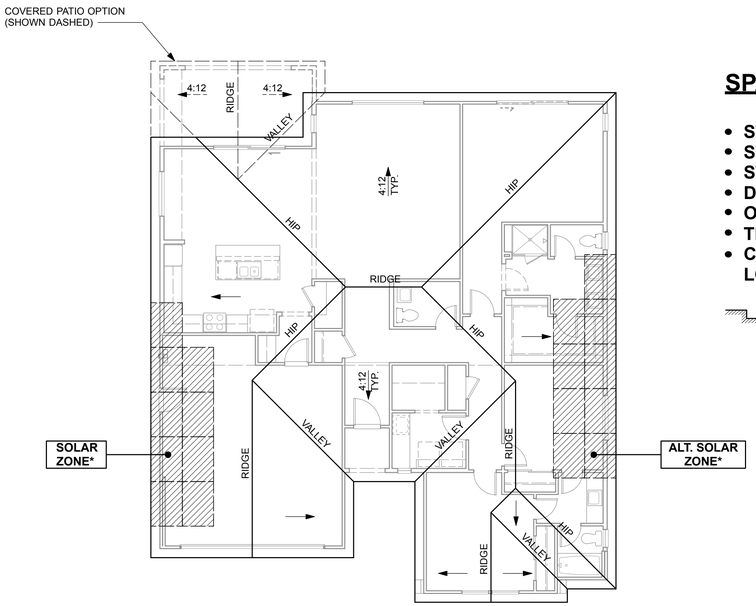
REAR "A"



REAR "A"
(COVERED PATIO OPTION)



LEFT SIDE "A"

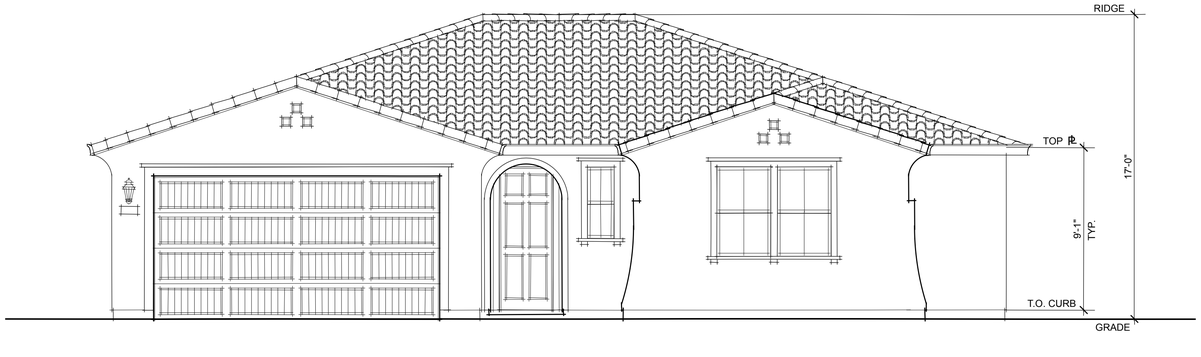


ROOF PLAN "A"

SPANISH

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- STUCCO OVER SHAPED FOAM CORBELS
- DECORATIVE TILE PIPE VENTS
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - LOW PROFILE "S"

INDICATES RECESS



FRONT ELEVATION "A"
(SPANISH)

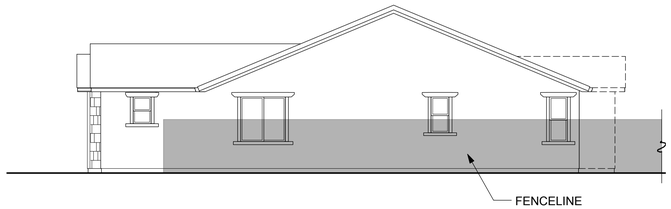
PLAN 2
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

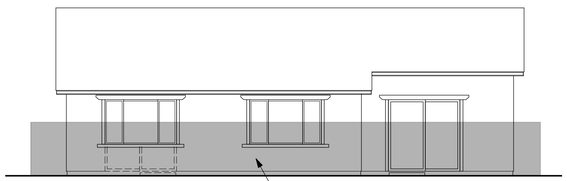
OAG ARCHITECTS, INC.

2005 4-22-20

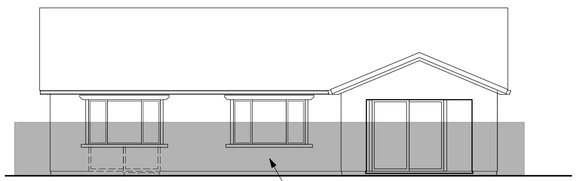
SHEET A-4



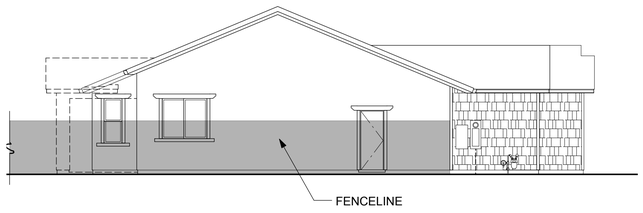
RIGHT SIDE "B"



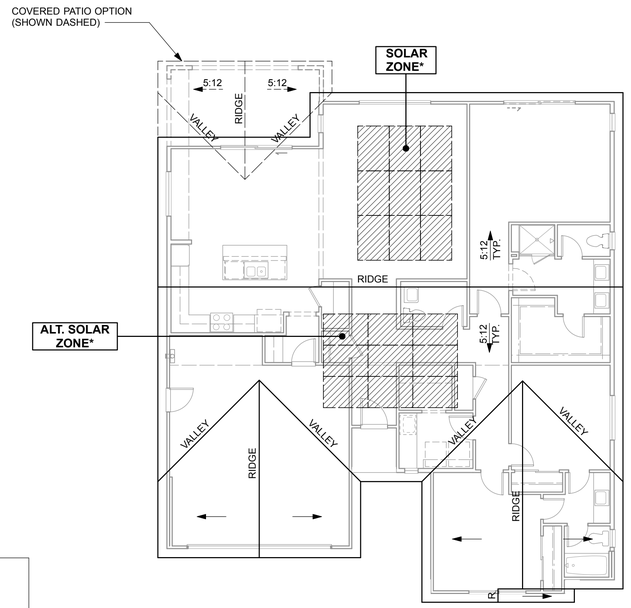
REAR "B"



REAR "B"
(COVERED PATIO OPTION)



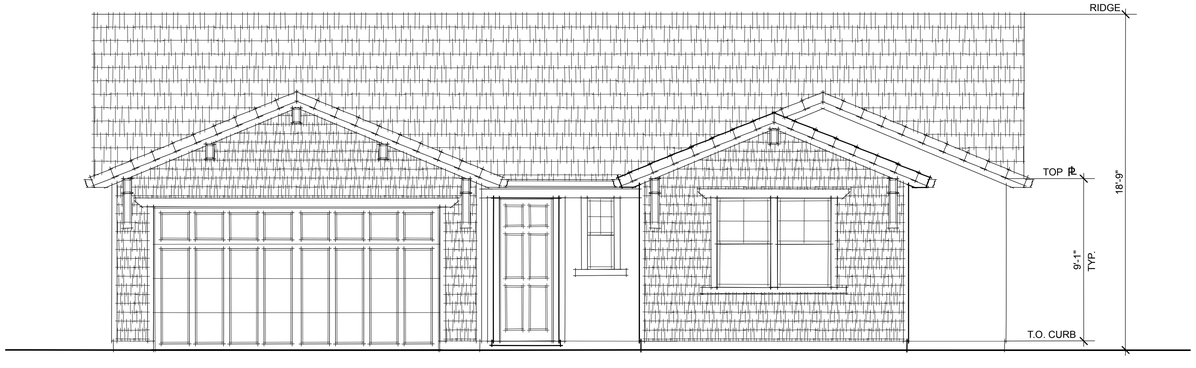
LEFT SIDE "B"



ROOF PLAN "B"

CRAFTSMAN

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- WOOD TRIM OVER WOOD SIDING
- FIBER CEMENT SHINGLE SIDING (WHERE SHOWN)
- SHAPED WOOD OUTLOOKERS AT WOOD SIDING
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - "SHAKE" PROFILE



FRONT ELEVATION "B"
(CRAFTSMAN)

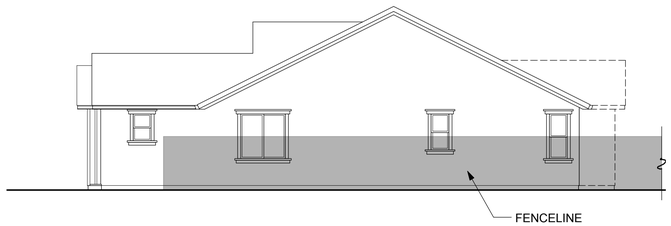
PLAN 2
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

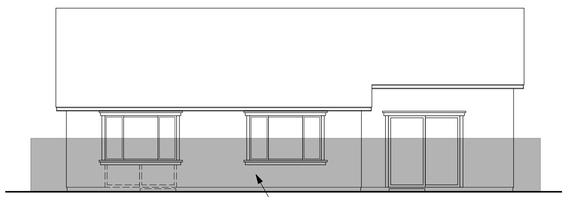
OAG ARCHITECTS, INC.

2005 4-22-20

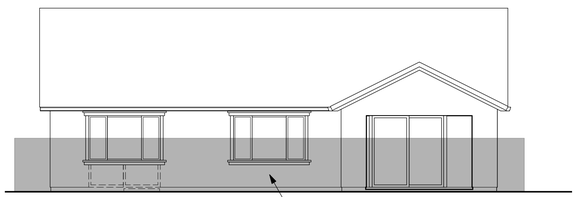
SHEET A-5



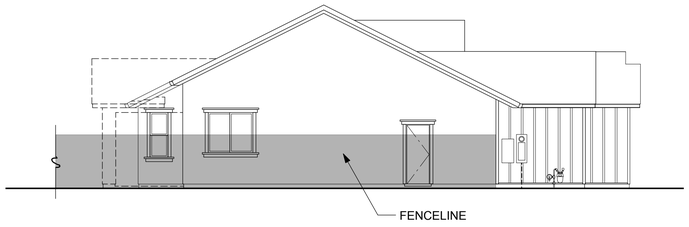
RIGHT SIDE "C"



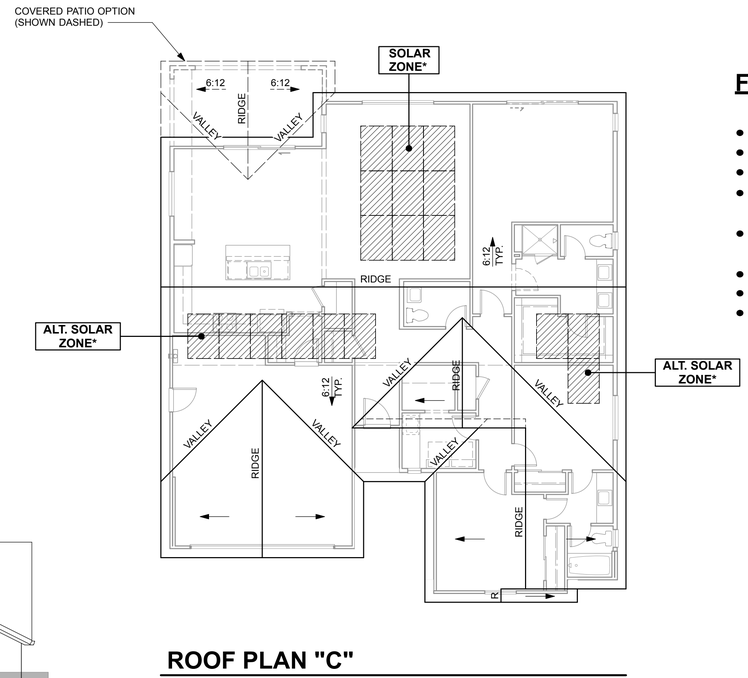
REAR "C"



REAR "C"
(COVERED PATIO OPTION)



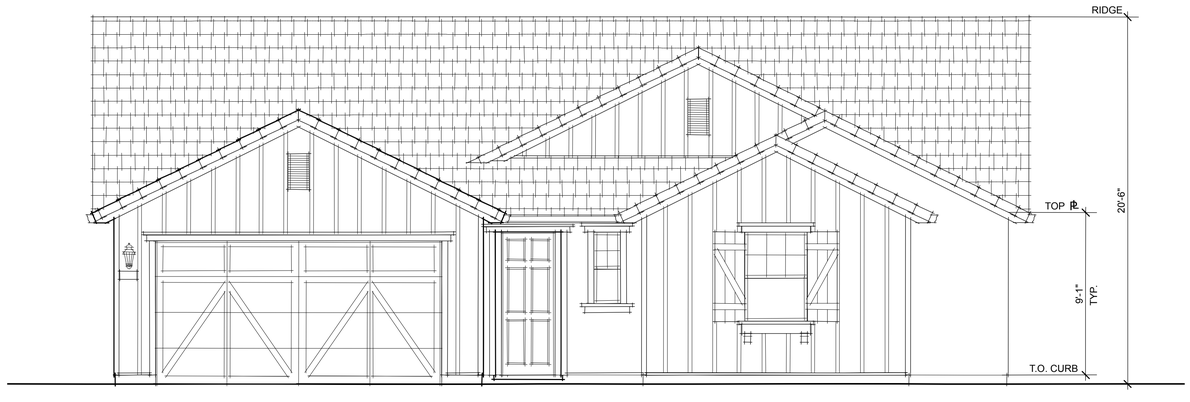
LEFT SIDE "C"



ROOF PLAN "C"

FARMHOUSE

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- WOOD TRIM OVER WOOD SIDING
- FIBER CEMENT BOARD AND BATTEN SIDING (WHERE SHOWN)
- WOOD GRAIN FOAM (PLANK AND BATTEN) SHUTTERS
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - "SLATE" PROFILE



FRONT ELEVATION "C"
(FARMHOUSE)

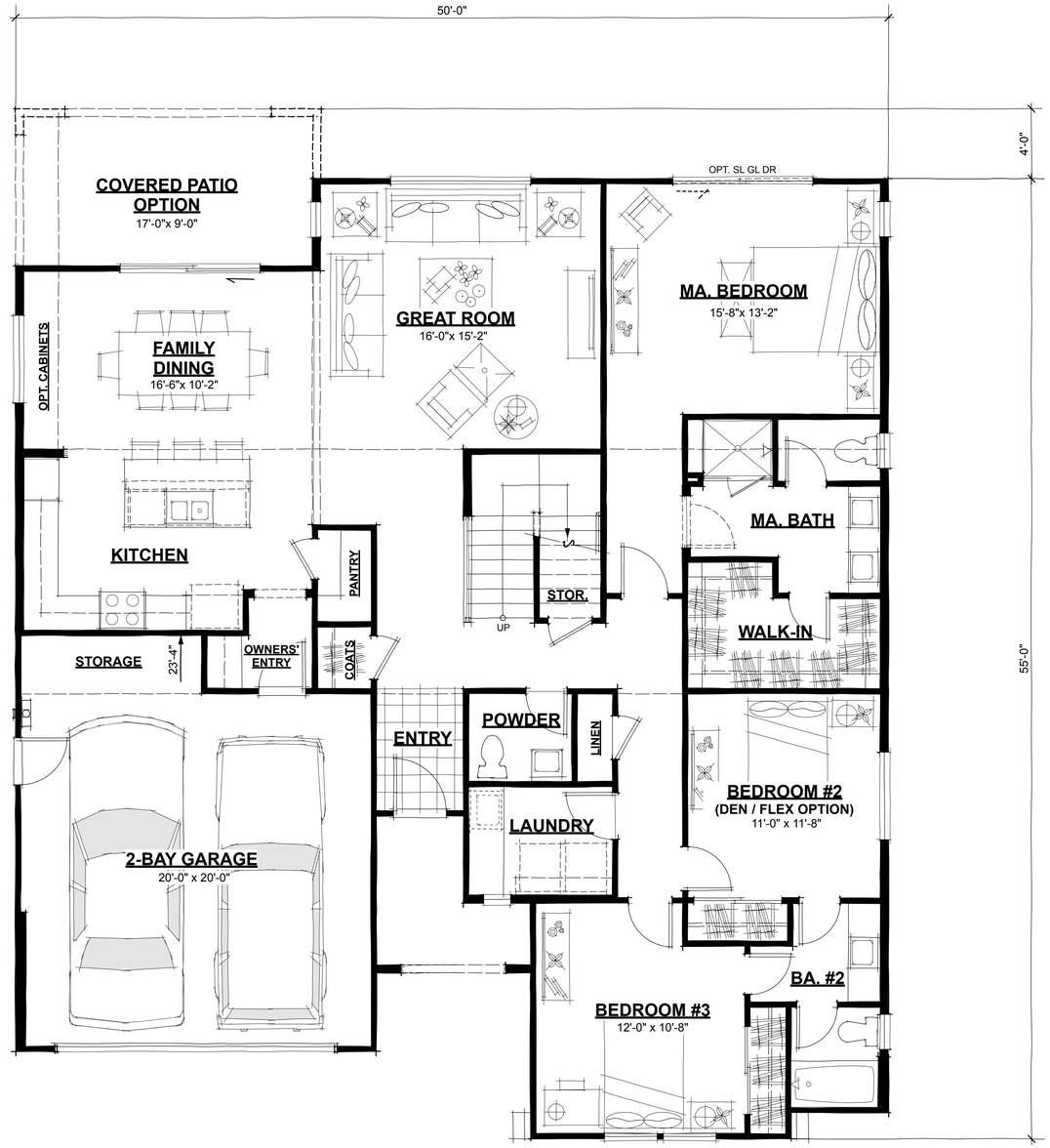
PLAN 2
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

OAG ARCHITECTS, INC.

2005 4-22-20

SHEET A-6



FIRST FLOOR PLAN (1942 S.F.; 2580 TOTAL S.F.)

DEN / FLEX OPTION

DeNova Homes
Building a Better Community®

PLAN 2X (250-2580)

DIABLO MEADOWS

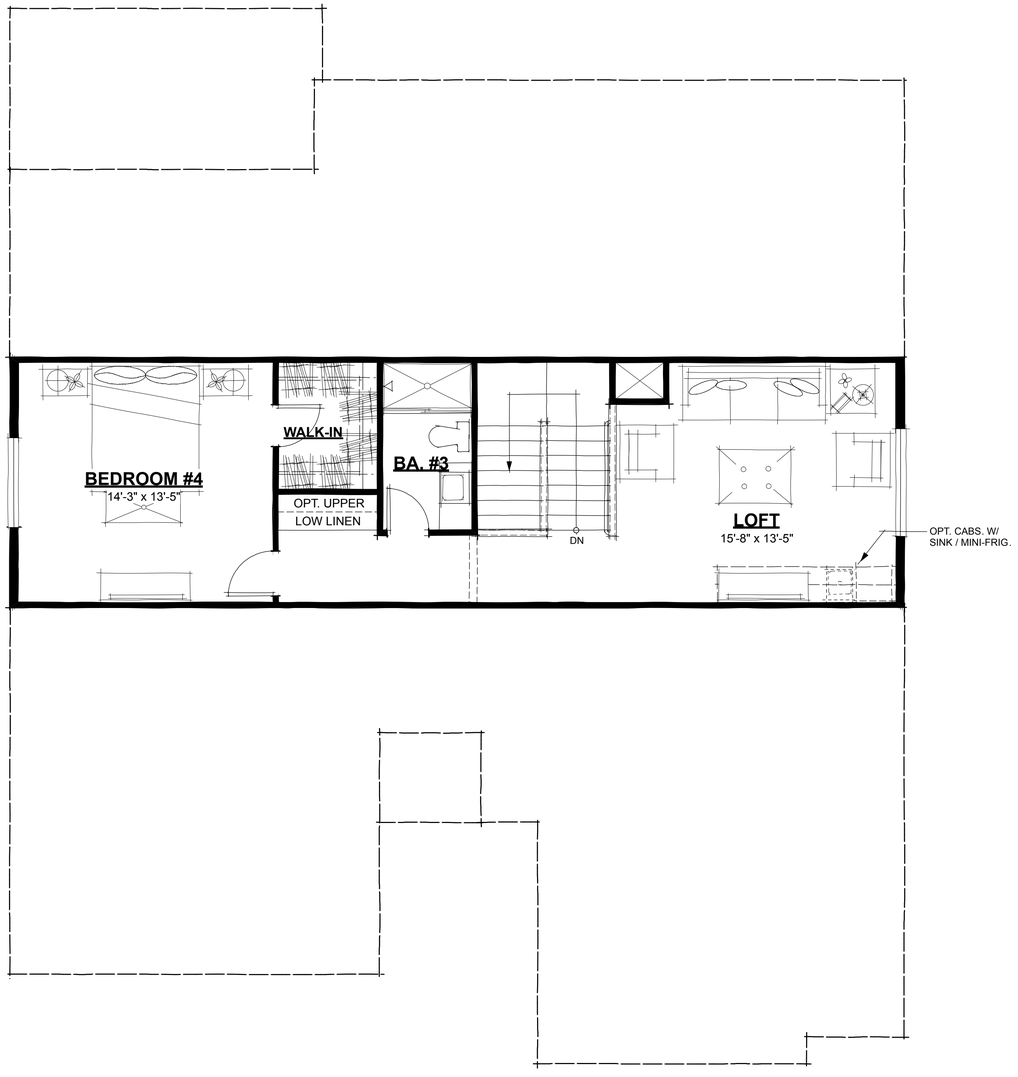
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

OAG ARCHITECTS, INC.

2005 4-22-20

SHEET A-7



SECOND FLOOR PLAN (628 S.F.)

DeNova Homes
Building a Better Community®

PLAN 2X (250-2580)

DIABLO MEADOWS

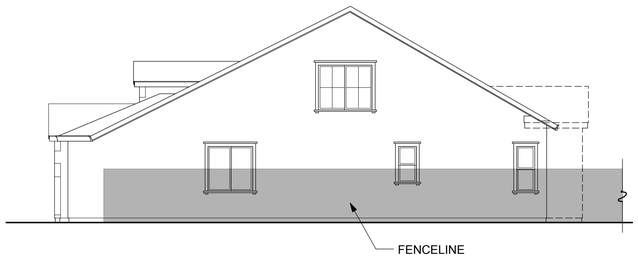
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

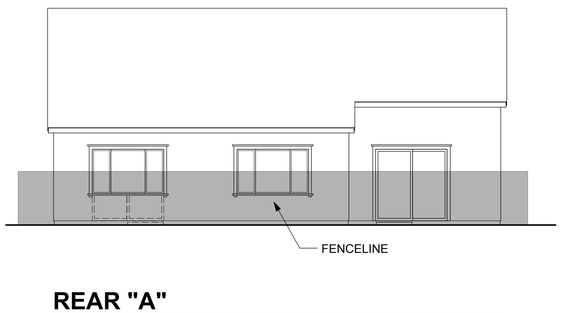
OAG ARCHITECTS, INC.

2005 4-22-20

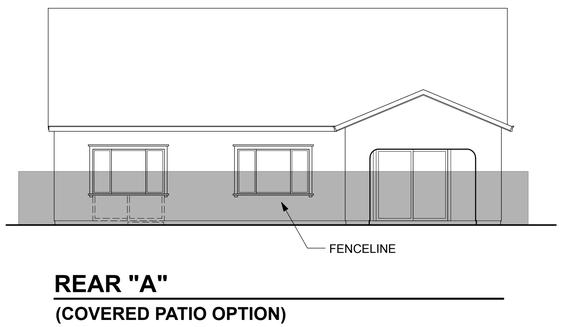
SHEET A-8



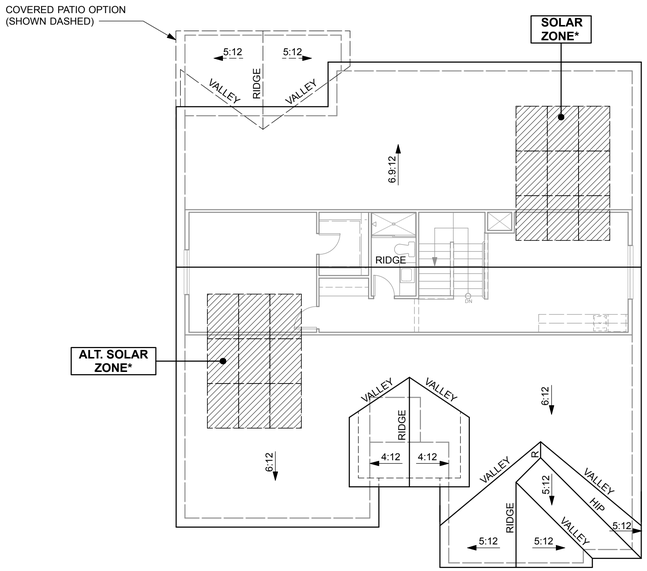
RIGHT SIDE "A"



REAR "A"



REAR "A"
(COVERED PATIO OPTION)

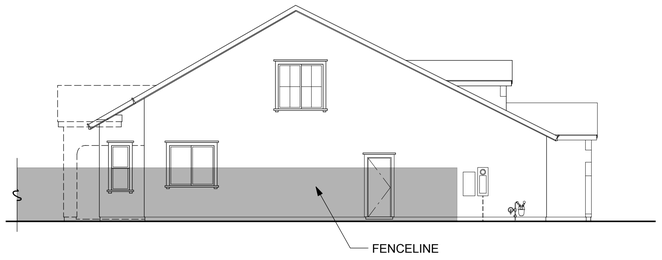


ROOF PLAN "A"

SPANISH

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- STUCCO OVER SHAPED FOAM CORBELS
- DECORATIVE TILE PIPE VENTS
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - LOW PROFILE "S"

INDICATES RECESS



LEFT SIDE "A"



FRONT ELEVATION "A"
(SPANISH)

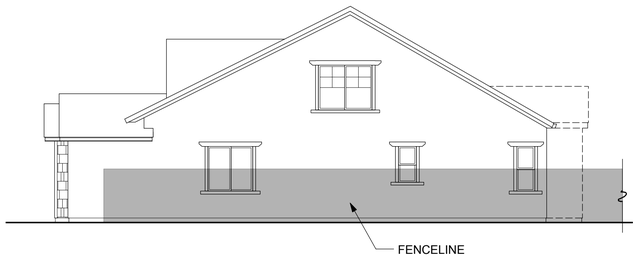
PLAN 2X
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

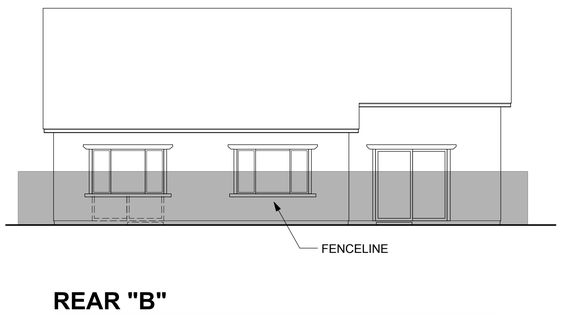
OAG ARCHITECTS, INC.

2005 4-22-20

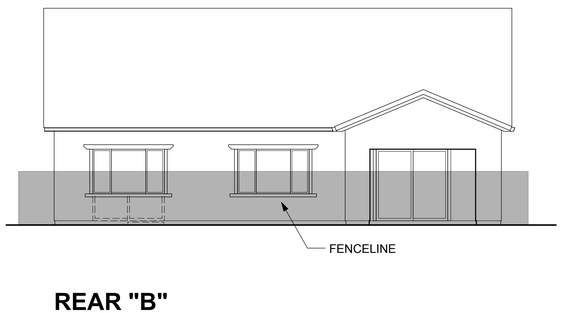
SHEET A-9



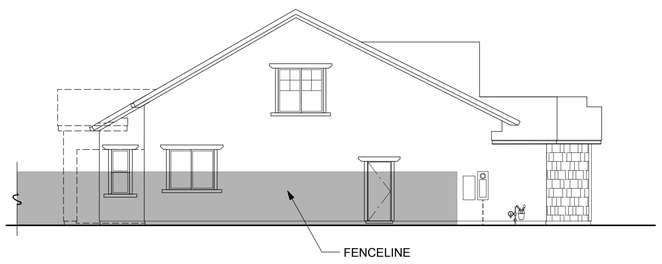
RIGHT SIDE "B"



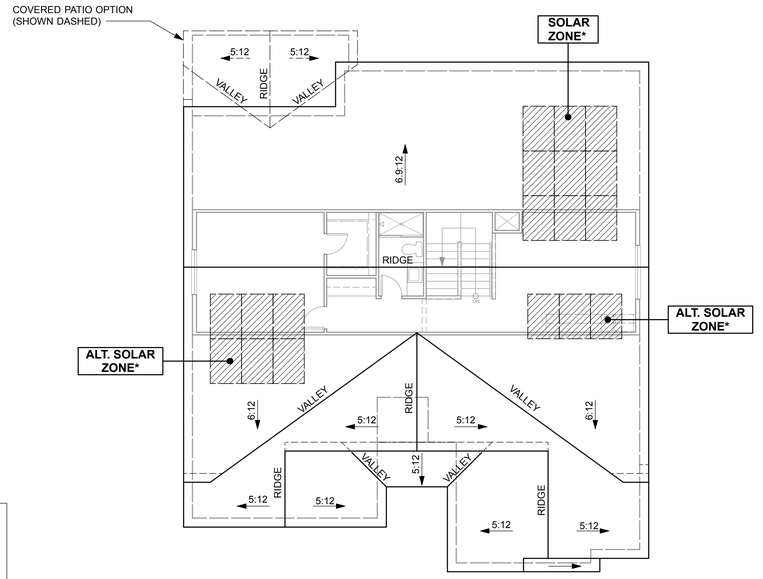
REAR "B"



REAR "B"
(COVERED PATIO OPTION)



LEFT SIDE "B"



ROOF PLAN "B"

CRAFTSMAN

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- WOOD TRIM OVER WOOD SIDING
- FIBER CEMENT SHINGLE SIDING (WHERE SHOWN)
- SHAPED WOOD OUTLOOKERS AT WOOD SIDING
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - "SHAKE" PROFILE



FRONT ELEVATION "B"
(CRAFTSMAN)

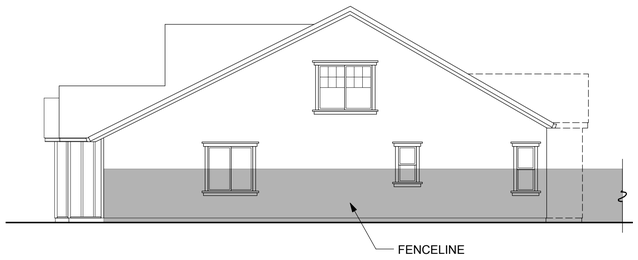
PLAN 2X
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

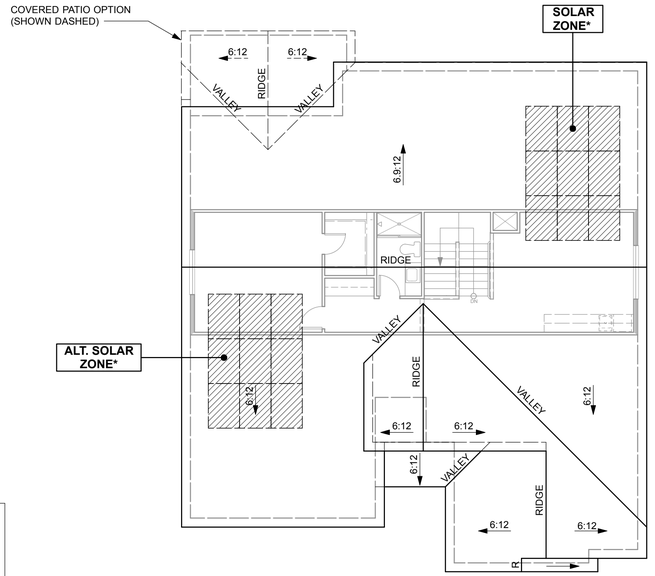
OAG ARCHITECTS, INC.

2005 4-22-20

SHEET A-10



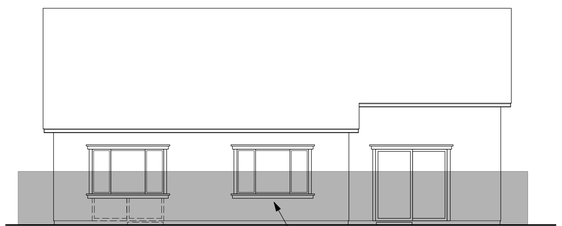
RIGHT SIDE "C"



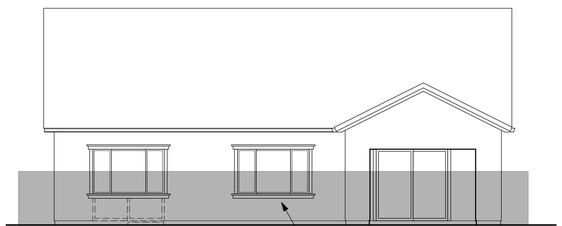
ROOF PLAN "C"

FARMHOUSE

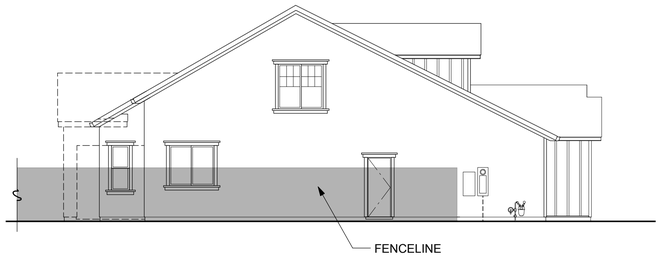
- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- WOOD TRIM OVER WOOD SIDING
- FIBER CEMENT BOARD AND BATTEN SIDING (WHERE SHOWN)
- WOOD GRAIN FOAM (PLANK AND BATTEN) SHUTTERS
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - "SLATE" PROFILE



REAR "C"



REAR "C"
(COVERED PATIO OPTION)



LEFT SIDE "C"



FRONT ELEVATION "C"
(FARMHOUSE)

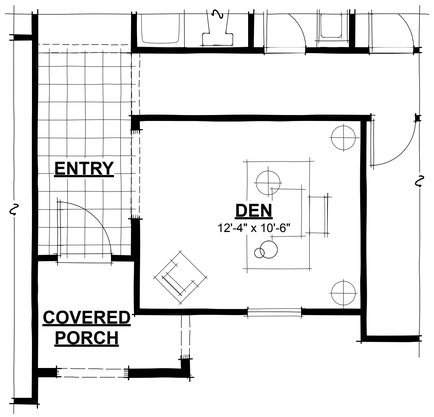
PLAN 2X
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

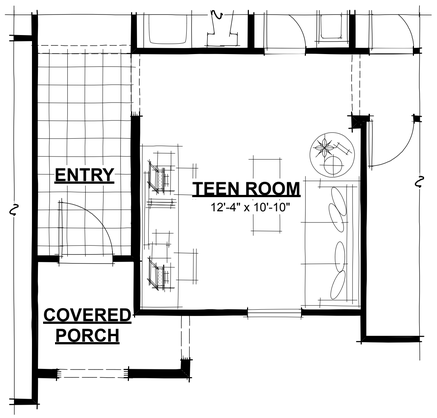
OAG ARCHITECTS, INC.

2005 4-22-20

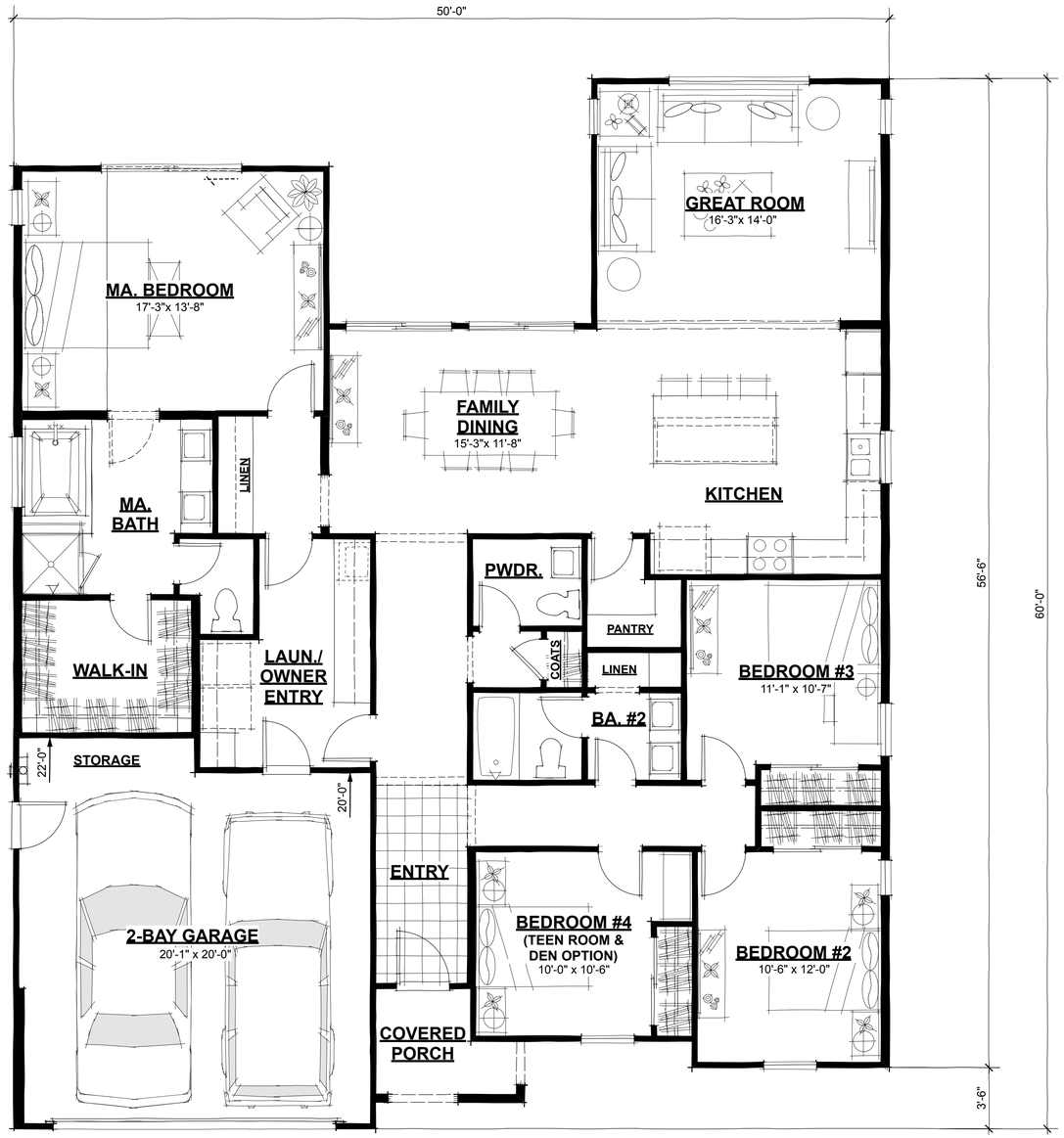
SHEET A-11



BEDROOM #4 OPTION



TEEN ROOM OPTION



FLOOR PLAN (2117 S.F.)

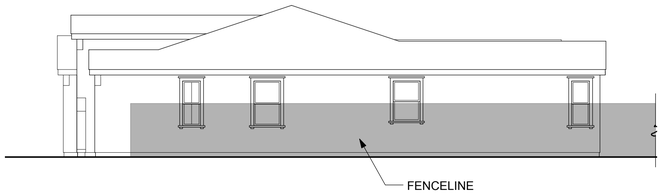
PLAN 3 (150-2117)
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

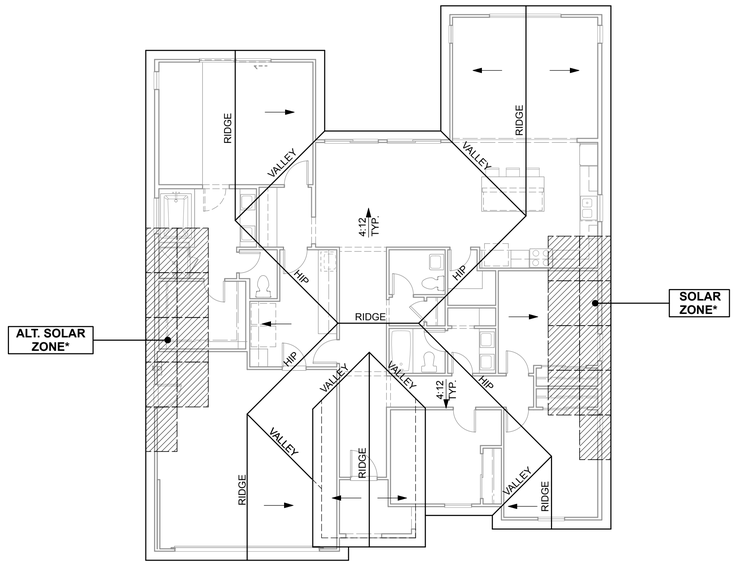
OAG ARCHITECTS, INC.

2005 4-22-20

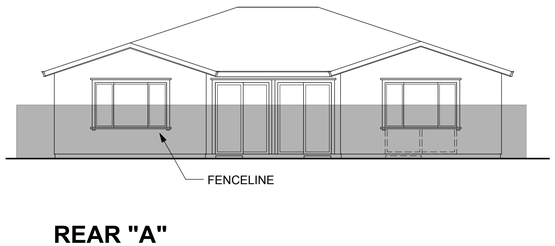
SHEET A-12



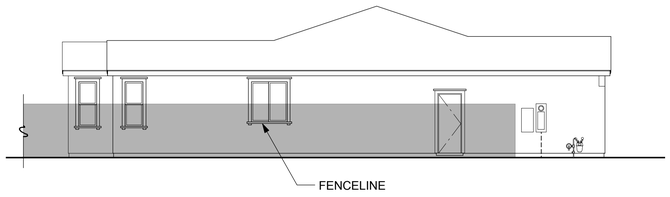
RIGHT SIDE "A"



ROOF PLAN "A"



REAR "A"

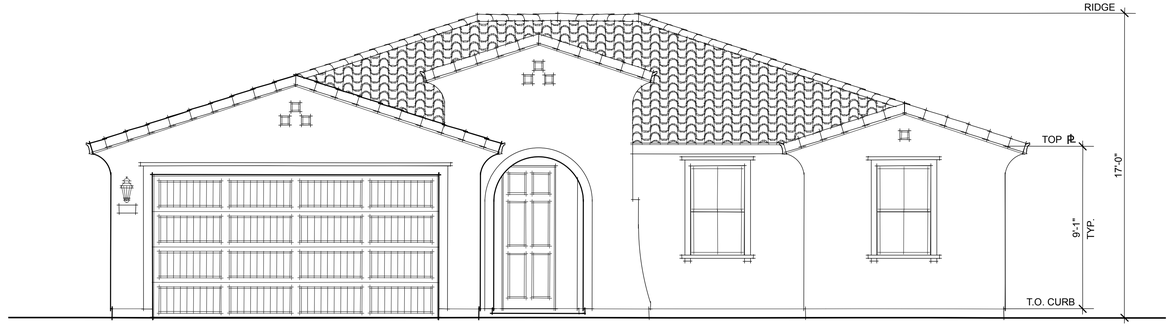


LEFT SIDE "A"

SPANISH

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- STUCCO OVER SHAPED FOAM CORBELS
- DECORATIVE TILE PIPE VENTS
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - LOW PROFILE "S"

INDICATES RECESS



FRONT ELEVATION "A"
(SPANISH)

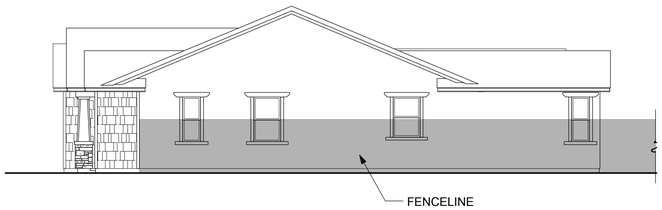
PLAN 3
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

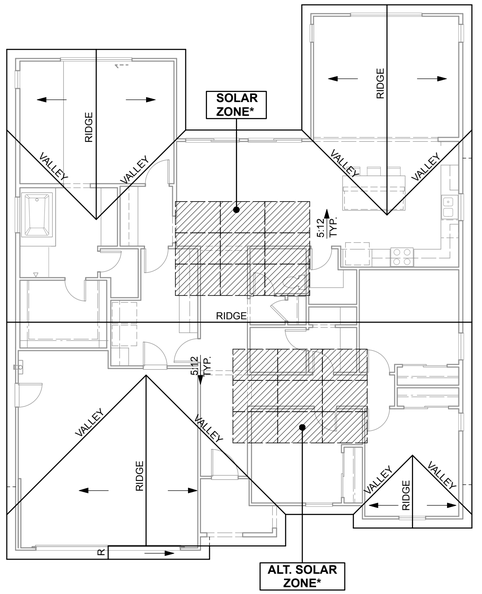
OAG ARCHITECTS, INC.

2005 4-22-20

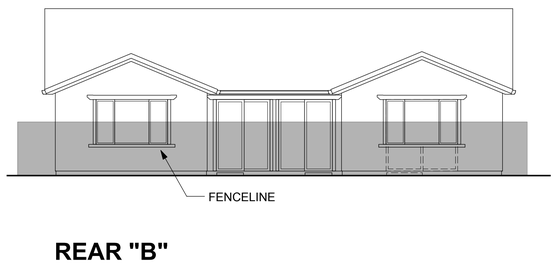
SHEET A-13



RIGHT SIDE "B"



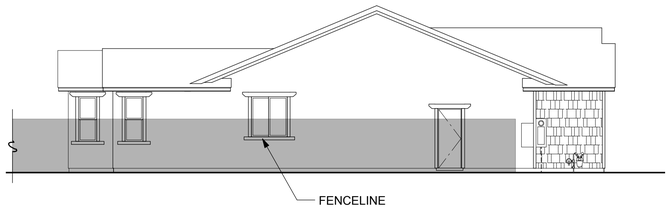
ROOF PLAN "B"



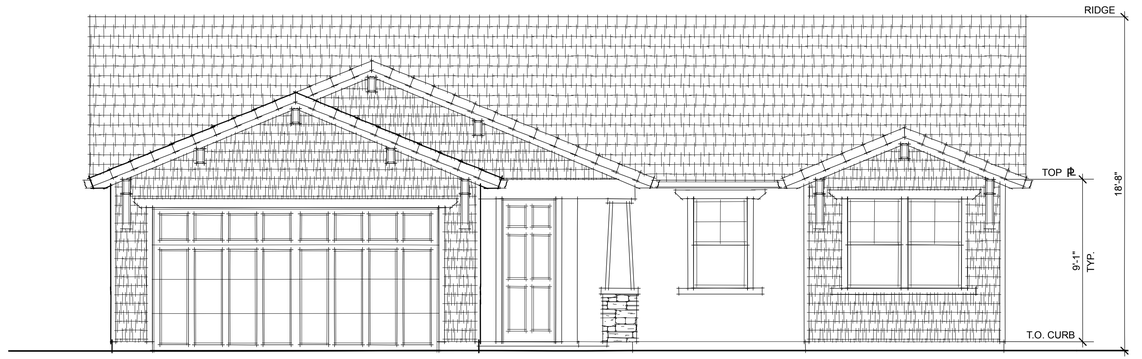
REAR "B"

CRAFTSMAN

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- WOOD TRIM OVER WOOD SIDING
- FIBER CEMENT SHINGLE SIDING (WHERE SHOWN)
- SHAPED WOOD OUTLOOKERS AT WOOD SIDING
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - "SHAKE" PROFILE



LEFT SIDE "B"



FRONT ELEVATION "B"
(CRAFTSMAN)

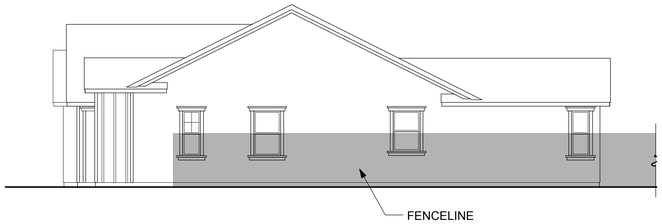
PLAN 3
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

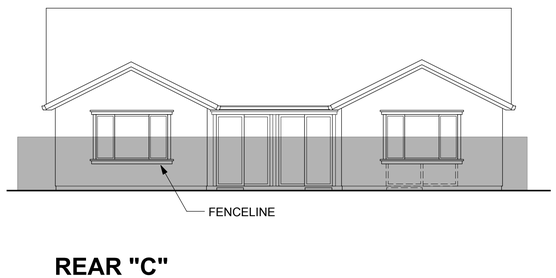
OAG ARCHITECTS, INC.

2005 4-22-20

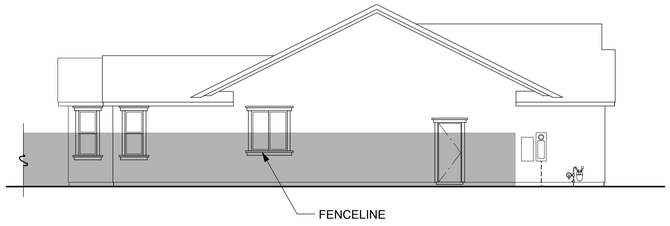
SHEET A-14



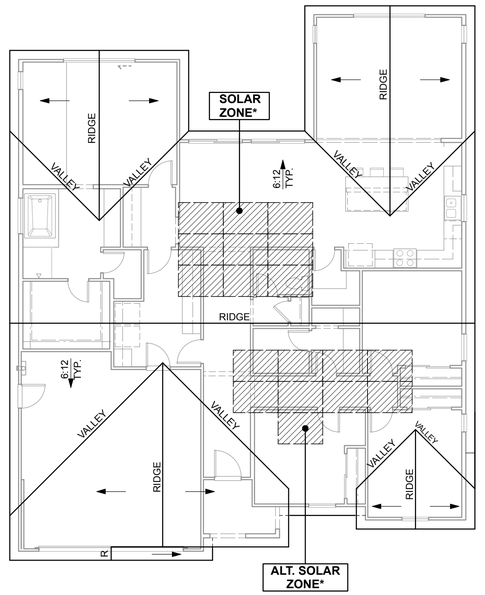
RIGHT SIDE "C"



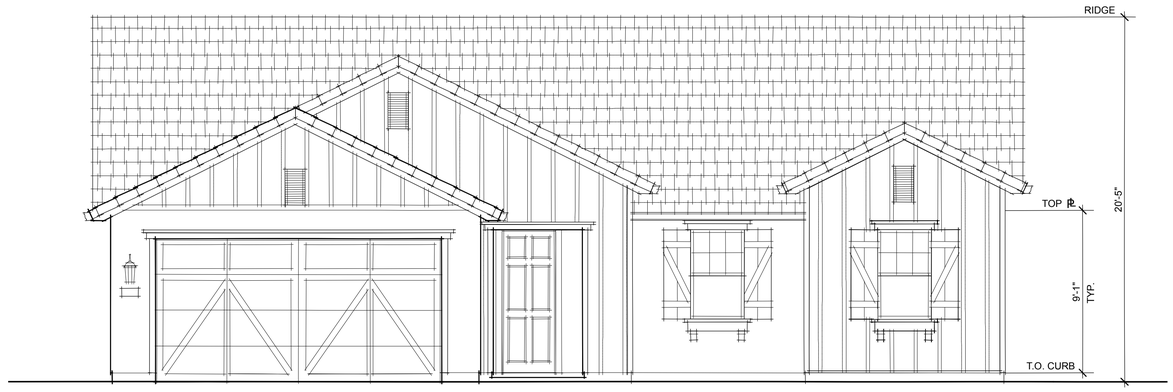
REAR "C"



LEFT SIDE "C"



ROOF PLAN "C"



FRONT ELEVATION "C"
(FARMHOUSE)

FARMHOUSE

- STUCCO SIDING
- STUCCO OVER FOAM TRIM
- WOOD TRIM OVER WOOD SIDING
- FIBER CEMENT BOARD AND BATTEN SIDING (WHERE SHOWN)
- WOOD GRAIN FOAM (PLANK AND BATTEN) SHUTTERS
- OGEE GUTTERS
- THEME SPECIFIC GARAGE DOOR
- CONCRETE TILE ROOFING - "SLATE" PROFILE

PLAN 3
DIABLO MEADOWS
Clayton, California

940 Tyler Street #19
Benicia, CA 94510
Phone: (707) 746-6586

OAG ARCHITECTS, INC.

2005 4-22-20

SHEET A-15

ATTACHMENT K - ARCHITECTURAL COLOR SCHEMES

DIABLO MEADOWS

BY

DeNova Homes

Building a Better Community®

COLOR SCHEMES
STONE VENEER
ROOF MATERIALS

APRIL 22, 2020

OAG ARCHITECTS, INC.

940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

DIABLO CANYON

OAG ARCHITECTS, INC.

COLOR APPLICATIONS

SPANISH SCHEMES 1, 2, & 3 (ELEVATIONS "A")

COLOR 1 – BODY
COLOR 2 – TRIM
COLOR 3 – FASCIA, GARAGE DOOR
COLOR 4 – FRONT ENTRY DOOR, SHUTTERS

CRAFTSMAN SCHEMES 4, 5, & 6 (ELEVATIONS "B")

COLOR 1 – BODY
COLOR 2 – TRIM, FASCIA, KICKERS, CORBELS, & POSTS
COLOR 3 – SIDING, GARAGE DOOR
COLOR 4 – FRONT ENTRY DOOR

FARMHOUSE SCHEMES 7, 8, & 9 (ELEVATIONS "C")

COLOR 1 – BODY
COLOR 2 – BOARD AND BATTEN SIDING, & FAUX VENT(S)
COLOR 3 – TRIM, FASCIA, POSTS, & GARAGE DOOR
COLOR 4 – FRONT ENTRY DOOR. SHUTTERS (AT SCHEMES 8 & 9)
COLOR 5 – SHUTTERS (AT SCHEME 7)

TUSCAN SCHEMES 10, 11, & 12 (ELEVATIONS "D")

COLOR 1 – BODY
COLOR 2 – FASCIA, EAVES, GUTTERS, CORBELS, & GARAGE DOOR
COLOR 3 – TRIM
COLOR 4 – FRONT ENTRY DOOR, SHUTTERS

OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

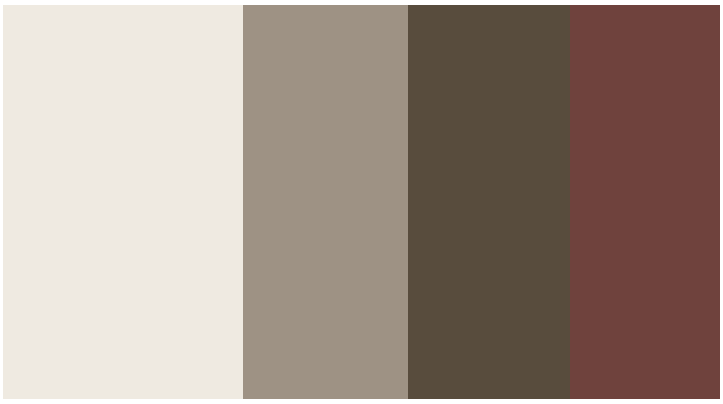
DIABLO CANYON

OAG ARCHITECTS, INC.

SCHEME 1 (Spanish – Elevation "A")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7001	Marshmallow (stucco)
COLOR 2	SW 7504	Keystone Gray (trim)
COLOR 3	SW 7027	Well-Bread Brown (fascia & garage door)
COLOR 4	SW 7594	Carriage Door (entry door)
EAGLE ROOFING:	2606	Vallejo Range

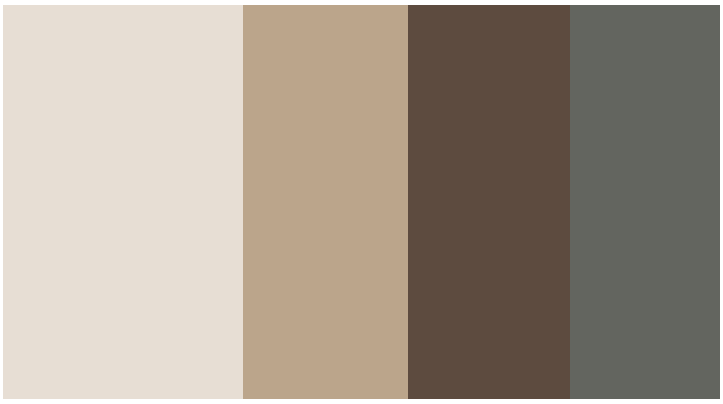




SCHEME 2 (Spanish – Elevation "A")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 6084	Modest White (stucco)
COLOR 2	SW 6101	Sands of Time (trim)
COLOR 3	SW 2808	Rockwood Dark Brown (fascia & garage door)
COLOR 4	SW 7061	Night Owl (entry door)
EAGLE ROOFING:	2522	Terracotta Flashed





OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

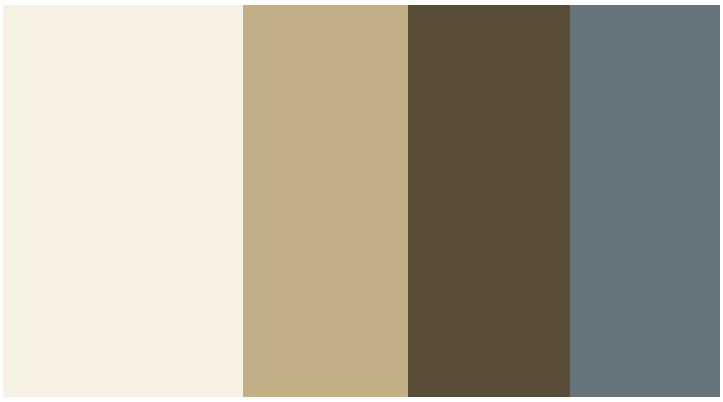
DIABLO CANYON

OAG ARCHITECTS, INC.

SCHEME 3 (Spanish – Elevation "A")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7104	Cotton White (stucco)
COLOR 2	SW 6122	Camelback (trim)
COLOR 3	SW 7034	Status Bronze (fascia & garage door)
COLOR 4	SW 7624	Slate Tile (entry door)
EAGLE ROOFING:	2605	San Benito Blend

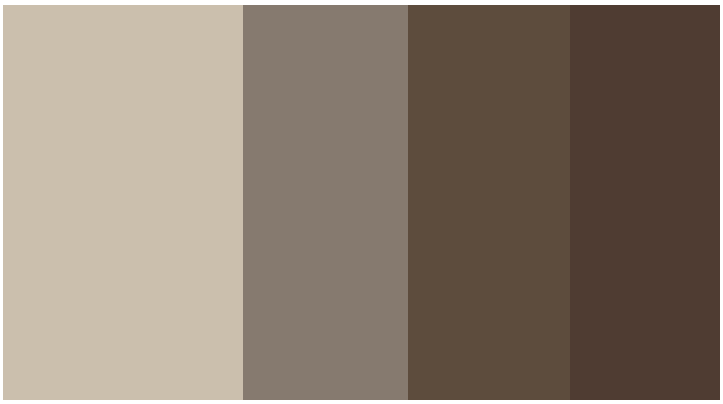




SCHEME 4 (Craftsman – Elevation "B")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7547	Sandbar (stucco)
COLOR 2	SW 7025	Backdrop (trim & fascia)
COLOR 3	SW 6083	Sable (siding & garage door)
COLOR 4	SW 6076	Tukish Coffee (entry door)
EAGLE ROOFING:	5687	Brown Gray Range
ENVIRONMENTAL STONEWORKS:		Cessna Tan Weathered Edge Ledgstone







OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

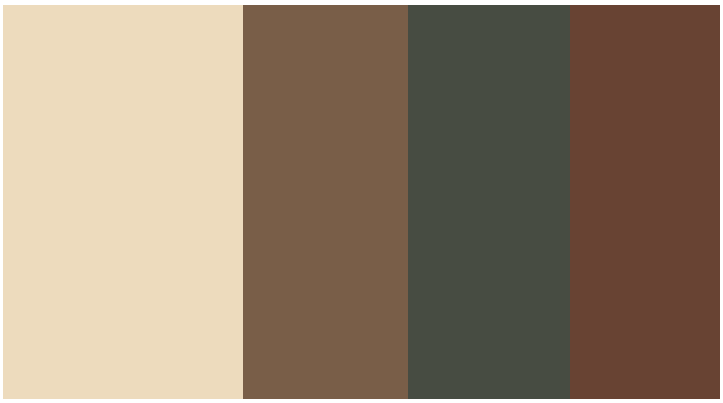
DIABLO CANYON

OAG ARCHITECTS, INC.

SCHEME 5 (Craftsman – Elevation "B")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7678	Cottage Cream (stucco)
COLOR 2	SW 6089	Grounded (trim & fascia)
COLOR 3	SW 6209	Ripe Olive (siding & garage door)
COLOR 4	SW 6062	Rugged Brown (entry door)
EAGLE ROOFING:	5502	Arcadia Canyon Brown
ENVIRONMENTAL STONEWORKS:		Northwoods Weathered Edge Ledgstone



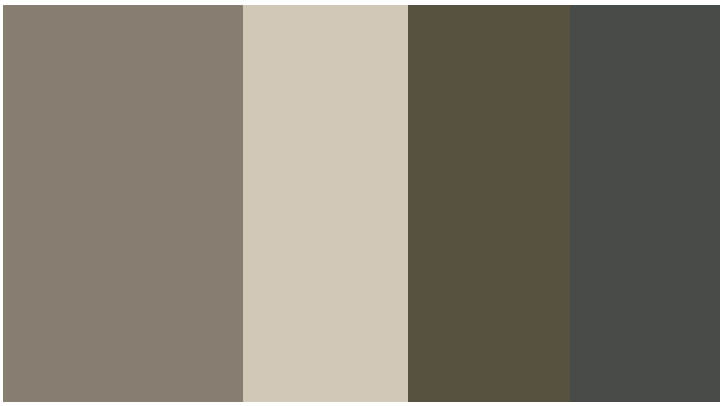




SCHEME 6 (Craftsman – Elevation "B")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7053	Adaptive Shade (stucco)
COLOR 2	SW 7036	Accessible Beige (trim & fascia)
COLOR 3	SW 7055	Enduring Bronze (siding & garage door)
COLOR 4	SW 7062	Rock Bottom (entry door)
EAGLE ROOFING:	5690	Pewter Bronze Blend
ENVIRONMENTAL STONEWORKS:		Sierra Weathered Edge Ledgestone







OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

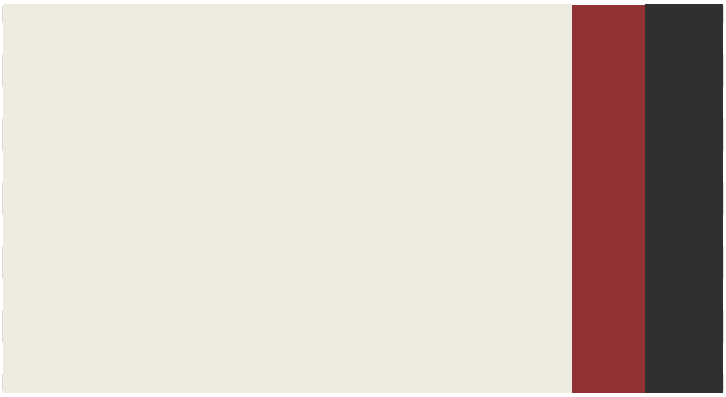
DIABLO CANYON

OAG ARCHITECTS, INC.

SCHEME 7 (Farmhouse – Elevation "C")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7008	Alabaster (stucco)
COLOR 2	SW 7008	Alabaster (board and batten)
COLOR 3	SW 7008	Alabaster (trim, fascia & garage door)
COLOR 4	SW 6321	Red Bay (entry door)
COLOR 5	SW 6990	Caviar (shutters)
EAGLE ROOFING:	4697	Slate Range

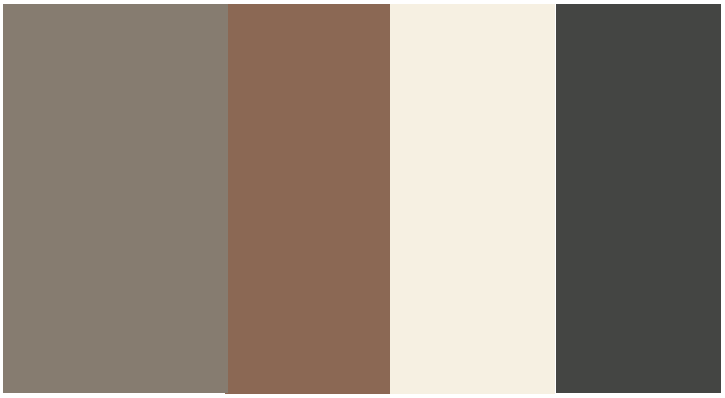


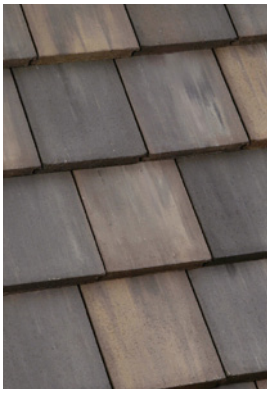


SCHEME 9 (Modern Farmhouse – Elevation "C")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7025	Backdrop (stucco)
COLOR 2	SW 6061	Tanbark (board and batten)
COLOR 3	SW 7562	Roman Column (trim, fascia & garage door)
COLOR 4	SW 7069	Iron Ore (entry door & shutters)
EAGLE ROOFING:	202 BL	Concord Blend





OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

DIABLO CANYON

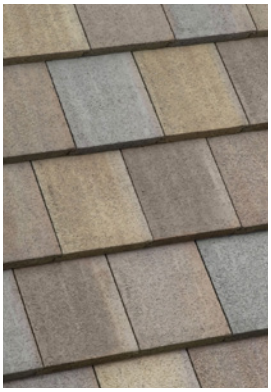
OAG ARCHITECTS, INC.

SCHEME 9 (Farmhouse – Elevation "C")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7023	Requisite Grey (stucco)
COLOR 2	SW 7005	Pure White (board and batten)
COLOR 3	SW 7005	Pure White (trim, fascia & garage door)
COLOR 4	SW 7025	Backdrop (entry door & shutters)
EAGLE ROOFING:	SCB8802	Nantucket Blend

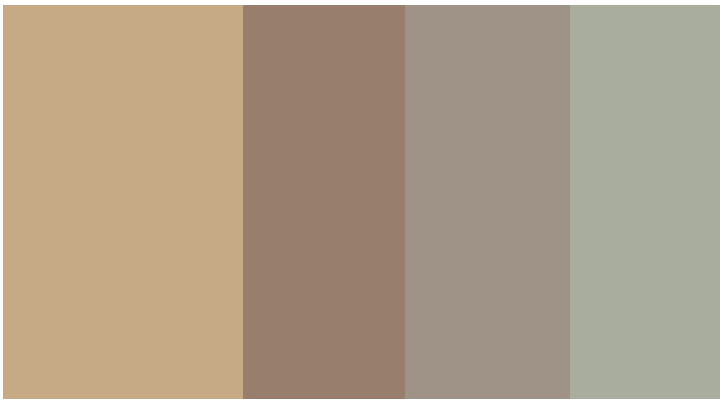




SCHEME 10 (Tuscan – Elevation "D")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 6122	Camelback (stucco)
COLOR 2	SW 6067	Mocha (fascia, gutters, corbels, garage door)
COLOR 3	SW 7504	Keystone (trim)
COLOR 4	SW 7741	Willow Tree (entry door & shutters)
EAGLE ROOFING:	2605	San Benito Blend
ENVIRONMENTAL STONEWORKS:		Taupe Fieldstone







OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

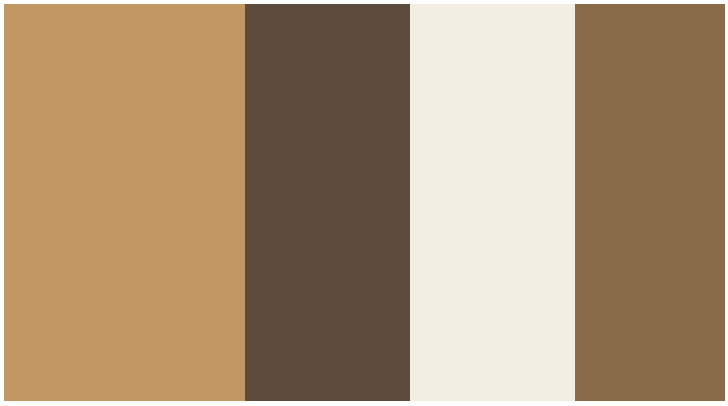
DIABLO CANYON

OAG ARCHITECTS, INC.

SCHEME 11 (Tuscan – Elevation "D")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 6130	Mannered Gold (stucco)
COLOR 2	SW 6083	Sable (fascia, gutters, corbels, garage door)
COLOR 3	SW 7566	Westhighland White (trim)
COLOR 4	SW 6125	Craft Paper (entry door & shutters)
EAGLE ROOFING:	2615	Weathered Terracotta Range
ENVIRONMENTAL STONEWORKS:		Southwest Fieldstone



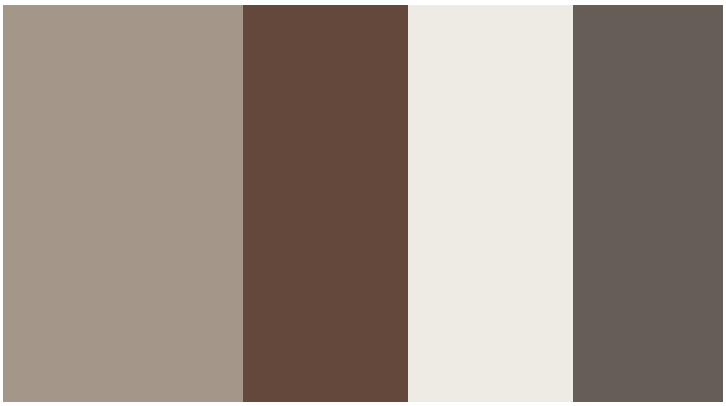




SCHEME 12 (Tuscan – Elevation "D")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7503	Sticks & Stones (stucco)
COLOR 2	SW 2856	Fairfax Brown (fascia, gutters, corbels, garage door)
COLOR 3	SW 7004	Snowbound (trim)
COLOR 4	SW 7505	Manor House (entry door & shutters)
EAGLE ROOFING:	2689	Brown Range
ENVIRONMENTAL STONEWORKS:		La Mirada Fieldstone







OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448

DeNova Homes

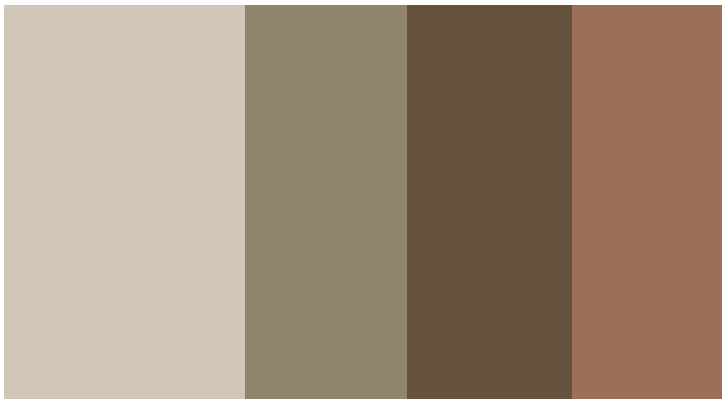
DIABLO CANYON

OAG ARCHITECTS, INC.

SCHEME ALT (Tuscan – Elevation "D")

SHERWIN-WILLIAMS PAINT:

COLOR 1	SW 7036	Accessible Beige (stucco)
COLOR 2	SW 6151	Quiver Tan (fascia, gutters, corbels, garage door)
COLOR 3	SW 6104	Kaffee (trim)
COLOR 4	SW 7705	Wheat Penny (entry door & shutters)
EAGLE ROOFING:	2645	Sunrise Blend
ENVIRONMENTAL STONEWORKS:		Taupe Fieldstone



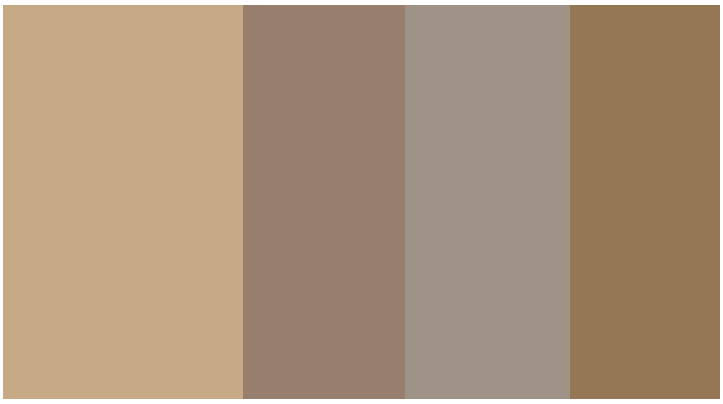




SCHEME ALT (Tuscan – Elevation "D")

SHERWIN-WILLIAMS PAINT:

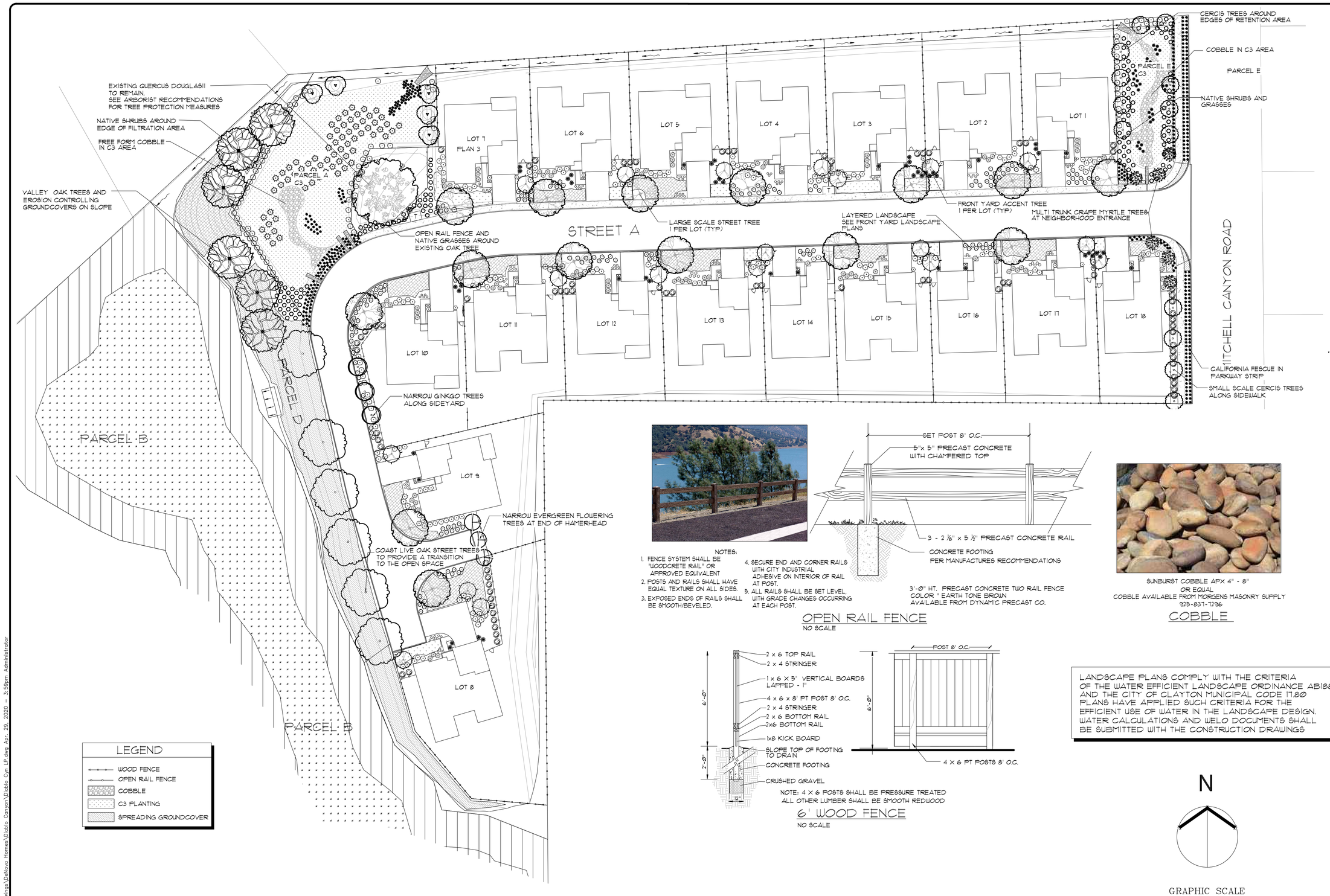
COLOR 1	SW 6122	Camelback (stucco)
COLOR 2	SW 6067	Mocha (fascia, gutters, corbels, garage door)
COLOR 3	SW 7504	Keystone (trim)
COLOR 4	SW 6095	Toasty (entry door & shutters)
EAGLE ROOFING:	2605	San Benito Blend
ENVIRONMENTAL STONEWORKS:		Taupe Fieldstone







OAG Architects, Inc. 940 Tyler Street, #19 • Benicia, CA 94510 • (707) 746-6586 • fax (707) 746-5448



PRELIMINARY LANDSCAPE PLAN

NOTES:
1. FENCE SYSTEM SHALL BE "WOODCRETE RAIL" OR APPROVED EQUIVALENT
2. POSTS AND RAILS SHALL HAVE EQUAL TEXTURE ON ALL SIDES.
3. EXPOSED ENDS OF RAILS SHALL BE SMOOTH/BEVELED.
4. SECURE END AND CORNER RAILS WITH CITY INDUSTRIAL ADHESIVE ON INTERIOR OF RAIL AT POST.
5. ALL RAILS SHALL BE SET LEVEL, WITH GRADE CHANGES OCCURRING AT EACH POST.

3'-0" HT. PRECAST CONCRETE TWO RAIL FENCE
COLOR " EARTH TONE BROWN
AVAILABLE FROM DYNAMIC PRECAST CO.

OPEN RAIL FENCE
NO SCALE

SUNBURST COBBLE APX 4" - 8"
OR EQUAL
COBBLE AVAILABLE FROM MORGENS MASONRY SUPPLY
925-837-7296

COBBLE

NOTE: 4 X 6 POSTS SHALL BE PRESSURE TREATED ALL OTHER LUMBER SHALL BE SMOOTH REDWOOD

6' WOOD FENCE
NO SCALE

LANDSCAPE PLANS COMPLY WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AB1881 AND THE CITY OF CLAYTON MUNICIPAL CODE 17.80 PLANS HAVE APPLIED SUCH CRITERIA FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN. WATER CALCULATIONS AND WELO DOCUMENTS SHALL BE SUBMITTED WITH THE CONSTRUCTION DRAWINGS

N

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DISCLAIMER: ALL VELLUM, BOND, TRACE, BLUEPRINT, ETC. DRAWINGS PROVIDED WITH BORRECCO/KILIAN & ASSOCIATES, INC. (BK&A) LANDSCAPE ARCHITECTS, TITLE BLOCK AND/OR SIGNATURE STAMP, IS CONSIDERED TO BE A COPY OF THE ORIGINAL DESIGN RETAINED BY BK&A IN ELECTRONIC FORMAT. BK&A WILL ONLY ACKNOWLEDGE SIGNED AND STAMPED PLANS AND DRAWINGS AFTER COMPARISON AND WRITTEN VERIFICATION WITH THE ORIGINAL ELECTRONIC FILES RETAINED BY BK&A. NO RESPONSIBILITY OR LIABILITY IS EXPRESSED OR IMPLIED FOR ELECTRONIC DATA AND/OR REPRODUCED PLANS AND DRAWINGS USED WITHOUT BK&A'S SIGNATURE.

NOTE
THIS IS AN ORIGINAL UNPUBLISHED WORK AND MAY NOT BE DUPLICATED, COPIED, PUBLISHED OR OTHERWISE DISTRIBUTED WITHOUT THE WRITTEN CONSENT OF BK&A.
COPYRIGHT © BORRECCO/KILIAN & ASSOCIATES, INC.

BORRECCO/KILIAN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
1241 Pine Street
Martinez, California 94553
PHONE: 925/372-5300
FAX: 925/372-5308

REGISTERED LANDSCAPE ARCHITECT Brian K. Hilton 2355 Signature Date STATE OF CALIFORNIA

REV	DATE	DESCRIPTION

TITLE OF PROJECT
SUBDIVISION 9536
DIABLO CANYON ROAD

DATE: 4.8.20
DRAWN BY: KDF

THIS PLAN IS:

SHEET NUMBER 1

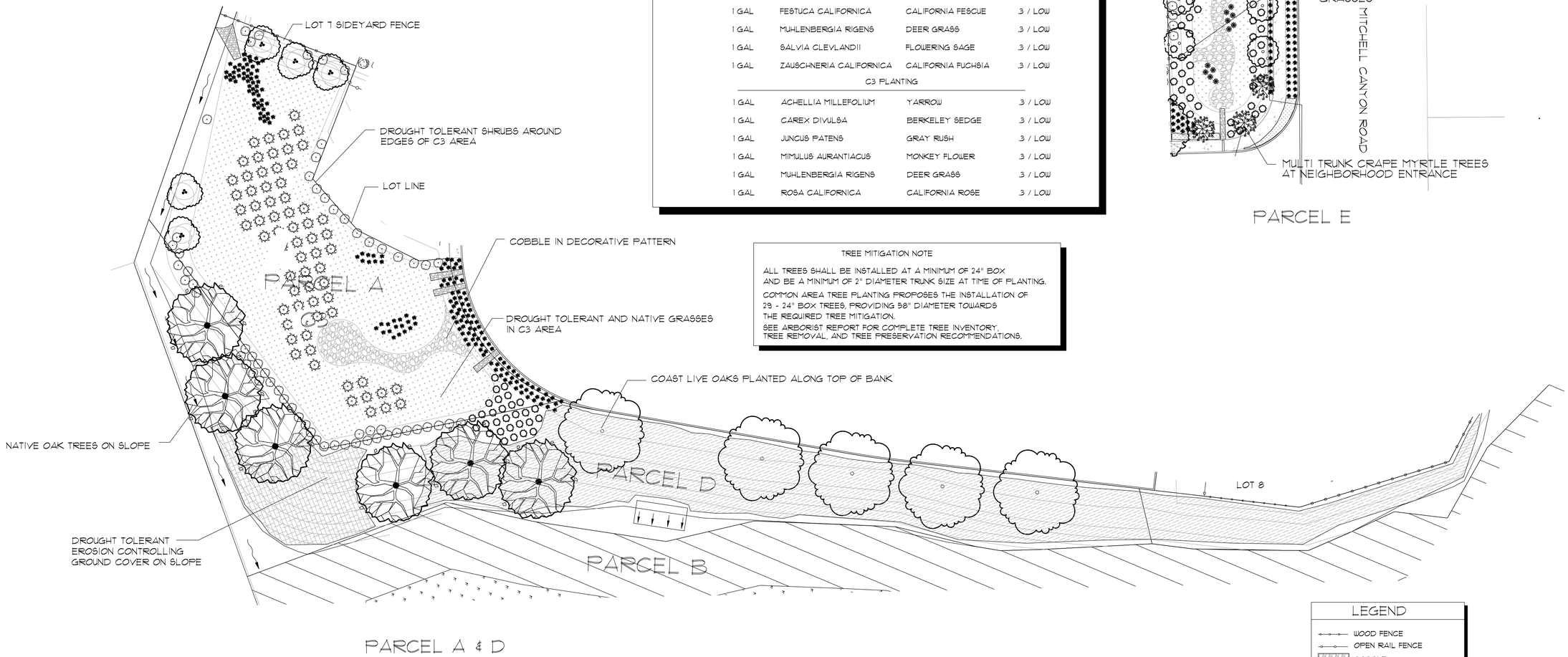
TITLE OF DRAWING:
CONCEPT

\\Landscape\brian's drawings\DeNova Homes\Diablo Canyon\Diablo Cyn LP.dwg Apr. 29, 2020 - 3:59pm Administrator

COMMON AREA LANDSCAPE PLAN

COMMON AREA PLANT LIST

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS WATER USE
		TREES		
	24" BOX	CERCIS C. 'OKLAHOMA'	REDBUD	.5 / MODERATE
	24" BOX	CERCIS OCCIDENTALIS	WESTERN REDBUD - NATURAL BRANCHING	.3 / LOW
	24" BOX	GINKGO B. 'PRINCETON SENTRY'	NARROW MAIDENHAIR TREE	.5 / MODERATE
	24" BOX	LAGERSTROEMIA HYB.	CRAPE MYRTLE - MULTI	.3 / LOW
	24" BOX	QUERCUS AGRIFOLIA	COAST LIVE OAK	.3 / LOW
	24" BOX	QUERCUS LOBATA	VALLEY OAK	.3 / LOW
		SHRUBS AND GROUNCOVER		
	5 GAL	ARCTOSTAPHYLOS SP.	MANZANITA	.3 / LOW
	5 GAL	CARPENTERIA C. 'ELIZABETH	BUSH ANEMONE	.3 / LOW
	5 GAL	CEANOTHUS SP.	WILD LILAC	.3 / LOW
	1 GAL	COTONEASTER 'LOWFAST'	COTONEASTER	.3 / LOW
	1 GAL	FESTUCA CALIFORNICA	CALIFORNIA FESCUE	.3 / LOW
	1 GAL	MUHLENBERGIA RIGENS	DEER GRASS	.3 / LOW
	1 GAL	SALVIA CLEVLANDII	FLOWERING SAGE	.3 / LOW
	1 GAL	ZAUSCHNERIA CALIFORNICA	CALIFORNIA FUCHSIA	.3 / LOW
		C3 PLANTING		
	1 GAL	ACHELLIA MILLEFOLIUM	YARROW	.3 / LOW
	1 GAL	CAREX DIVULSA	BERKELEY SEDGE	.3 / LOW
	1 GAL	JUNCUS PATENS	GRAY RUSH	.3 / LOW
	1 GAL	MIMULUS AURANTIACUS	MONKEY FLOWER	.3 / LOW
	1 GAL	MUHLENBERGIA RIGENS	DEER GRASS	.3 / LOW
	1 GAL	ROSA CALIFORNICA	CALIFORNIA ROSE	.3 / LOW



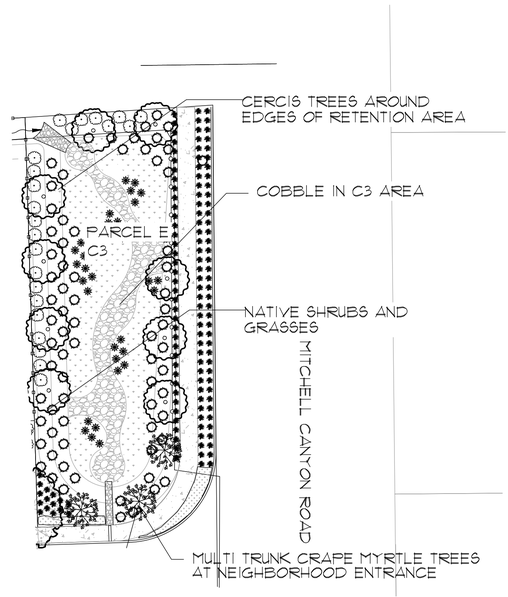
PARCEL A & D

TREE MITIGATION NOTE

ALL TREES SHALL BE INSTALLED AT A MINIMUM OF 24" BOX AND BE A MINIMUM OF 2" DIAMETER TRUNK SIZE AT TIME OF PLANTING.

COMMON AREA TREE PLANTING PROPOSES THE INSTALLATION OF 29 - 24" BOX TREES, PROVIDING 58" DIAMETER TOWARDS THE REQUIRED TREE MITIGATION.

SEE ARBORIST REPORT FOR COMPLETE TREE INVENTORY, TREE REMOVAL, AND TREE PRESERVATION RECOMMENDATIONS.



PARCEL E

LEGEND

- WOOD FENCE
- OPEN RAIL FENCE
- COBBLE
- C3 PLANTING
- SPREADING GROUNDCOVER

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NOTE
THIS IS AN ORIGINAL UNPUBLISHED WORK AND MAY NOT BE DUPLICATED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF BK&A.
COPYRIGHT © BORRECCO/KILIAN & ASSOCIATES, INC.

BORRECCO/KILIAN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
1241 Pine Street
Martinez, California 94553
Phone: 925/372-5306
FAX: 925/372-5308

REGISTERED LANDSCAPE ARCHITECT — BRIAN K. KILIAN — 2359 — Signature — Date — STATE OF CALIFORNIA

REV	DATE	DESCRIPTION

TITLE OF PROJECT
SUBDIVISION 9536
DIABLO CANYON ROAD

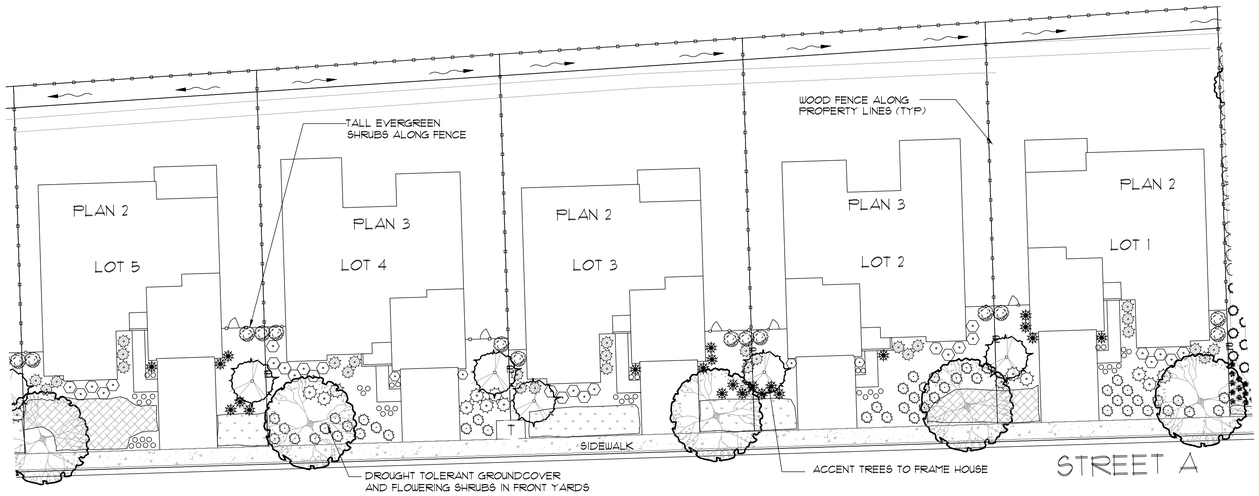
DATE: 4/8/20
DRAWN BY: KDF

THIS PLAN IS:

SHEET NUMBER: L-2
TITLE OF DRAWING: CONCEPT

DISCLAIMER: ALL VELLUM, BOND, TRACE, BLUEPRINT, ETC. DRAWINGS PROVIDED WITH BORRECCO/KILIAN & ASSOCIATES, INC. (BK&A) LANDSCAPE ARCHITECTS, TITLE BLOCK AND/OR SIGNATURE STAMP, IS CONSIDERED TO BE A COPY OF THE ORIGINAL DESIGN RETAINED BY BK&A IN ELECTRONIC FORMAT. BK&A WILL ONLY ACKNOWLEDGE SIGNED AND STAMPED PLANS AND DRAWINGS AFTER COMPARISON AND WRITTEN VERIFICATION WITH THE ORIGINAL ELECTRONIC FILES RETAINED BY BK&A. NO RESPONSIBILITY OR LIABILITY IS EXPRESSED OR IMPLIED FOR ELECTRONIC DATA AND/OR REPRODUCED PLANS AND DRAWINGS USED WITHOUT BK&A'S SIGNATURE.

\\Landscape1\Brian's Drawings\DeNova Homes\Diablo Canyon\L- 1 L-2 Diablo Cyn LP.dwg Apr. 29, 2020 - 4:50pm Administrator



LOTS 1-5

PRELIMINARY TREE LIST

SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS WATER USE
15 GAL	FRONT YARD ACCENT TREE - PLANT PALETTE		
24" BOX	CERCIS C. 'OKLAHOMA'	REDBUD	.3 / MODERATE
24" BOX	LAGERSTROEMIA HYB.	CRAPE MYRTLE - MULTI	.3 / LOW
24" BOX	GINGGO BILOBA 'PRINCETON SENTRY'	NARROW MAIDENHAIR TREE	.3 / MODERATE
24" BOX	MAGNOLIA G. 'D.D. BLANCHARD'	NARROW MAGNOLIA	.3 / MODERATE
24" BOX	QUERCUS COCCINEA	SCARLETT OAK	.3 / MODERATE
24" BOX	STYPHNOLOBIUM JAPONICUM	SCHOLAR TREE	.3 / LOW

LEGEND

WOOD FENCE

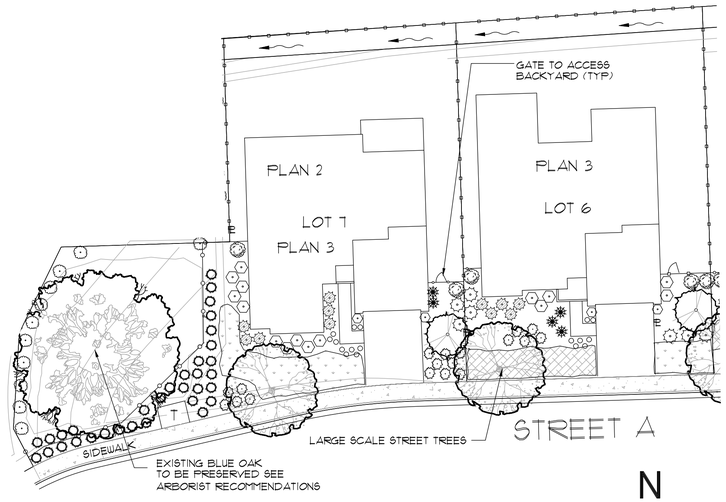
OPEN RAIL FENCE

TREE MITIGATION NOTES

24" BOX TREES SHALL BE A MINIMUM OF 2" DIAMETER TRUNK SIZE AT TIME OF PLANTING.
15 GALLON TREES SHALL BE A MINIMUM OF 1" DIAMETER TRUNK SIZE AT TIME OF PLANTING.
FRONT YARD LANDSCAPE PLANS PROPOSE THE INSTALLATION OF

28 - 24" BOX TREES, PROVIDING 84" DIAMETER TOWARDS THE REQUIRED TREE MITIGATION.
15 - 15 GALLON TREES, PROVIDING 15" DIAMETER TOWARDS THE REQUIRED TREE MITIGATION.

SEE ARBORIST REPORT FOR COMPLETE TREE INVENTORY, TREE REMOVAL AND TREE PRESERVATION RECOMMENDATIONS.



LOTS 6 & 7

N

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

PRELIMINARY FRONT YARD LANDSCAPE PLANS

DISCLAIMER: ALL VELLUM, BOND, TRACE, BLUEPRINT, ETC. DRAWINGS PROVIDED WITH BORRECCO/KILIAN & ASSOCIATES, INC. (BK&A) LANDSCAPE ARCHITECTS, TITLE BLOCK AND/OR SIGNATURE STAMP, IS CONSIDERED TO BE A COPY OF THE ORIGINAL DESIGN RETAINED BY BK&A IN ELECTRONIC FORMAT. BK&A WILL ONLY ACKNOWLEDGE SIGNED AND STAMPED PLANS AND DRAWINGS AFTER COMPARISON AND WRITTEN VERIFICATION WITH THE ORIGINAL ELECTRONIC FILES RETAINED BY BK&A'S NO RESPONSIBILITY OR LIABILITY IS EXPRESSED OR IMPLIED FOR ELECTRONIC DATA AND/OR REPRODUCED PLANS AND DRAWINGS USED WITHOUT BK&A'S SIGNATURE.

REV	DATE	DESCRIPTION

NOTE
THIS IS AN ORIGINAL UNPUBLISHED DRAWING AND IS NOT TO BE USED, COPIED, PUBLISHED OR OTHERWISE DISTRIBUTED WITHOUT THE WRITTEN CONSENT OF BK&A.
COPYRIGHT © BORRECCO/KILIAN & ASSOCIATES, INC.

BORRECCO/KILIAN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
1241 Pine Street
Martinez, California 94553
Phone: 925/372-5306
FAX: 925/372-5308

REGISTERED LANDSCAPE ARCHITECT BRIAN T. KILIAN 2359 Signature Date STATE OF CALIFORNIA

TITLE OF PROJECT
SUBDIVISION 9536
DIABLO CANYON ROAD

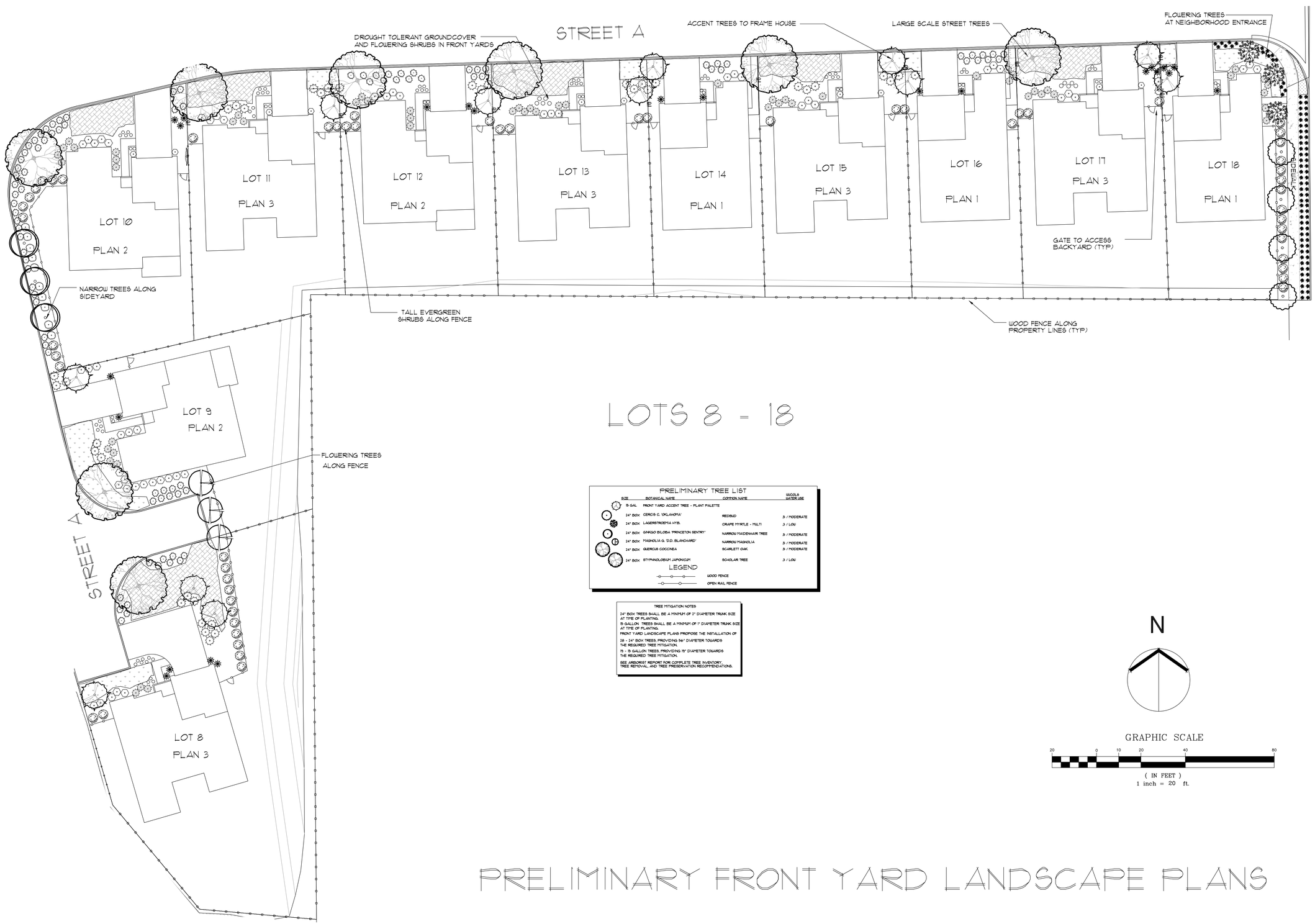
DATE: 4.8.20
DRAWN BY: KDF

THIS PLAN IS:

SHEET NUMBER L-3

TITLE OF DRAWING: CONCEPT

\\Landscapes1\brian's drawings\DeNova Homes\Diablo Canyon\Diablo Cyn FRONT YARD CLP.dwg Apr. 29, 2020 - 4:34pm Administrator



LOTS 8 - 18

PRELIMINARY TREE LIST

SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS WATER USE
15 GAL	FRONT YARD ACCENT TREE - PLANT PALETTE		
24" BOX	CERCIS C. 'OKLAHOMA'	REDBUD	3 / MODERATE
24" BOX	LAGERSTROEMIA HYB.	CRAPE MYRTLE - MULTI	3 / LOW
24" BOX	GINGKO BILOBA 'PRINCETON SENTRY'	NARROW MAIDENHAIR TREE	3 / MODERATE
24" BOX	MAGNOLIA G. 'D.D. BLANCHARD'	NARROW MAGNOLIA	3 / MODERATE
24" BOX	QUERCUS COCCINEA	SCARLETT OAK	3 / MODERATE
24" BOX	STYPHNOLOBIUM JAPONICUM	SCHOLAR TREE	3 / LOW

LEGEND

WOOD FENCE

OPEN RAIL FENCE

TREE MITIGATION NOTES

24" BOX TREES SHALL BE A MINIMUM OF 2" DIAMETER TRUNK SIZE AT TIME OF PLANTING.
15 GALLON TREES SHALL BE A MINIMUM OF 1" DIAMETER TRUNK SIZE AT TIME OF PLANTING.
FRONT YARD LANDSCAPE PLANS PROPOSE THE INSTALLATION OF

28 - 24" BOX TREES, PROVIDING 56" DIAMETER TOWARDS THE REQUIRED TREE MITIGATION.

75 - 15 GALLON TREES, PROVIDING 75" DIAMETER TOWARDS THE REQUIRED TREE MITIGATION.

SEE ARBORIST REPORT FOR COMPLETE TREE INVENTORY, TREE REMOVAL AND TREE PRESERVATION RECOMMENDATIONS.

N

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

PRELIMINARY FRONT YARD LANDSCAPE PLANS

DISCLAIMER: ALL VELLUM, BOND, TRACE, BLUEPRINT, ETC. DRAWINGS PROVIDED WITH BORRECCO/KILIAN & ASSOCIATES, INC. (BK&A) LANDSCAPE ARCHITECTS, TITLE BLOCK AND/OR SIGNATURE STAMP, IS CONSIDERED TO BE A COPY OF THE ORIGINAL DESIGN RETAINED BY BK&A IN ELECTRONIC FORMAT. BK&A WILL ONLY ACKNOWLEDGE SIGNED AND STAMPED PLANS AND DRAWINGS AFTER COMPARISON AND WRITTEN VERIFICATION WITH THE ORIGINAL ELECTRONIC FILES RETAINED BY BK&A. NO RESPONSIBILITY OR LIABILITY IS EXPRESSED OR IMPLIED FOR ELECTRONIC DATA AND/OR REPRODUCED PLANS AND DRAWINGS USED WITHOUT BK&A'S SIGNATURE.

BORRECCO/KILIAN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
1241 Pine Street
Martinez, California 94553
Phone: 925/372-5306
FAX: 925/372-5308

NOTE
THIS IS AN ORIGINAL UNPUBLISHED WORK AND MAY NOT BE DUPLICATED, COPIED, PUBLISHED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF BK&A.
COPYRIGHT © BORRECCO/KILIAN & ASSOCIATES, INC.

REGISTERED LANDSCAPE ARCHITECT 2359 Signature Date RENEWAL 12-31-21 STATE OF CALIFORNIA

REV	DATE	DESCRIPTION

TITLE OF PROJECT
SUBDIVISION 9536
DIABLO CANYON ROAD

DATE: 4.8.20
DRAWN BY: KDF

THIS PLAN IS:

SHEET NUMBER L - 1

TITLE OF DRAWING: CONCEPT

\\Landscape1\brian's drawings\DeNova Homes\Diablo Canyon\Diablo Cyn FRONT YARD CLP.dwg Apr 29, 2020 - 4:35pm Administrator

PLANT PALETTE A

SOUTH / WEST EXPOSURE

ACCENT TREE				
	15 GAL	ARBUTUS 'MARINA'	STRAWBERRY MADRONE	.3 / LOW
LARGE SHRUB				
	5 GAL	PRUNUS C. 'BRIGHT AND TIGHT'	COMPACT CAROLINA CHERRY	.3 / LOW
MEDIUM SHRUB				
	5 GAL	SPIRAEA 'ANTHONY WATERER'	SPIRAEA	.4 / MODERATE
EVERGREEN SHRUBS				
	5 GAL	CALLISTEMON V. 'LITTLE JOHN'	DWARF BOTTLE BRUSH	.3 / LOW
ACCENT PLANT				
	1 GAL	PHORMIUM 'CREAM DELIGHT'	DWARF NEW ZEALAND FLAX	.3 / LOW
LOW GROWING SHRUB				
	5 GAL	SALVIA SP.	FLOWERING SAGE	.4 / MODERATE
SMALL SCALE ACCENT				
	1 GAL	TEUCRIUM CHAMAEDRYS	BUSH GERMANDER	.3 / LOW
GROUNDCOVER				
	1 GAL	LOMANDRA LONGIFOLIA	DWARF MAT RUSH	.3 / LOW
	1 GAL	ROSMARINUS P. 'IRENE'	ROSEMARY	.3 / LOW

PLANT PALETTE B

SOUTH / WEST EXPOSURE

ACCENT TREE				
	15 GAL	LAGERSTROEMIA HYB. 'MUSKOGEE'	MULTI TRUNK CRAPE MYRTLE	.3 / LOW
LARGE SHRUB				
	5 GAL	PODOCARPUS 'ICEE BLUE'	SILVER YEW PINE	.4 / MODERATE
MEDIUM SHRUB				
	5 GAL	RHAPHIOLEPIS M., 'GULF GREEN'	COMPACT YEDDA HAWTHORN	.3 / LOW
EVERGREEN SHRUBS				
	5 GAL	PUNICA G. 'NANA'	DWARF POMEGRANATE	.3 / LOW
ACCENT PLANT				
	1 GAL	PHORMIUM T. 'JESTER'	DWARF NEW ZEALAND FLAX	.3 / LOW
LOW GROWING SHRUB				
	5 GAL	COPROSMA R. 'MARBLE QUEEN'	LOW GROWING MIRROR PLANT	.4 / MODERATE
SMALL SCALE ACCENT				
	1 GAL	HEMEROCALLIS 'STELLA DE ORA'	DAYLILY	.4 / MODERATE
GROUNDCOVER				
	1 GAL	LOMANDRA LONGIFOLIA	DWARF MAT RUSH	.3 / LOW
	1 GAL	LANTANA HYB. 'CREAM CARPET'	YELLOW LANTANA	.3 / LOW

PLANT PALETTE C

NORTH / EAST EXPOSURE

ACCENT TREE				
	15 GAL	LAGERSTROEMIA HYB. 'NATCHEZ'	STANDARD CRAPE MYRTLE	.3 / LOW
LARGE SHRUB				
	5 GAL	PODOCARPUS 'ICEE BLUE'	SILVER YEW PINE	.4 / MODERATE
MEDIUM SHRUB				
	5 GAL	PRUNUS L. 'OTTO LUYKEN'	COMPACT ENGLISH LAUREL	.4 / MODERATE
EVERGREEN SHRUBS				
	5 GAL	CAMELLIA 'SHISHI-GASHIRA'	SUN CAMELLIA	.4 / MODERATE
ACCENT PLANT				
	1 GAL	DIANELLA T. 'VARIEGATA'	VARIEGATED FLAX LILY	.4 / MODERATE
LOW GROWING SHRUB				
	5 GAL	RHAPHIOLEPIS 'BALLERINA'	LOW GROWING INDIAN HAWTHORN	.3 /LOW
SMALL SCALE ACCENT				
	1 GAL	LAVANDULA 'MUNSTED'	ENGLISH LAVENDER	.3 / LOW
GROUNDCOVER				
	1 GAL	MUHLENBERGIA EMERSLEY1	BULL GRASS	.3 / LOW
	1 GAL	ROSMARINUS P. 'IRENE'	ROSEMARY	.3 / LOW

PLANT PALETTE D

NORTH / EAST EXPOSURE

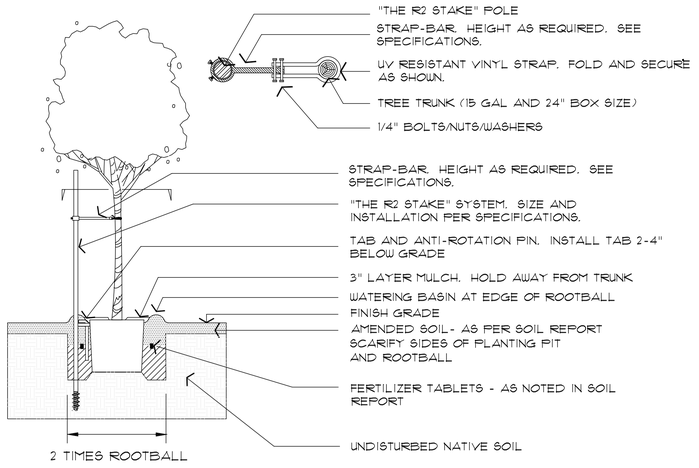
ACCENT TREE				
	15 GAL	ACER J. 'BLOODGOOD'	BLOODGOOD JAPANESE MAPLE	.3 / LOW
LARGE SHRUB				
	5 GAL	CAMELLIA JAPONICA	JAPANESE CAMELLIA	.4 / MODERATE
MEDIUM SHRUB				
	5 GAL	ABELIA 'SUNRISE'	VARIEGATED ABELIA	.4 / MODERATE
EVERGREEN SHRUBS				
	5 GAL	LOROPETALUM C. 'SUZANNE'	COMPACT FRINGE FLOWER	.4 / MODERATE
ACCENT PLANT				
	1 GAL	DIETES V. 'VARIEGATA'	VARIEGATED FORTNIGHT LILY	.3 / LOW
LOW GROWING SHRUB				
	5 GAL	SALVIA SP.	FLOWERING SAGE	.4 / MODERATE
SMALL SCALE ACCENT				
	1 GAL	BERBERIS T. 'CONCORDE'	DWARF BARBERRY	.4 / MODERATE
GROUNDCOVER				
	1 GAL	LOMANDRA 'PLATINUM'	VARIEGATED MAT RUSH	.3 / LOW
	1 GAL	COLEONEMA P. " SUNSET GOLD'	YELLOW BREATH OF HEAVEN	.3 / LOW

GENERAL LANDSCAPE NOTES

ALL LANDSCAPE AREA SHALL BE WATERED WITH A BURIED, AUTOMATICALLY CONTROLLED IRRIGATION SYSTEM. LOW VOLUME , MPR NOZZLES AND DRIP WILL BE USED WHERE APPROPRIATE FOR WATER CONSERVATION.

ALL LANDSCAPE AREAS SHALL BE COVERED WITH A 3" LAYER OF MULCH TOP DRESSING.

ALL TREES SHALL BE INSTALLED AT A MINIMUM OF 15 GAL. SIZE. ALL SHRUBS SHALL BE INSTALLED AT A 5 GAL. SIZE, EXCEPT ACCENT AND GROUNDCOVER SHRUBS.



NOTES:
TREE STAKE TO BE LOCATED ON PREVAILING WIND SIDE WHEN TREE IS IN LEAF.

INSTALL TREE'S ROOTBALL 2" ABOVE FINISH GRADE (ROOT FLARE SHALL BE EXPOSED AT GRADE)

TREE PLANTING AND STAKING DETAIL

CONTACT J. R. PARTNERS @ (888) 333-3030 FOR TREE STAKES

PRELIMINARY FRONT YARD PLANTING PALETTES

NOTE
THIS IS AN ORIGINAL UNPUBLISHED WORK BY BKA&A AND MAY NOT BE USED, COPIED, PUBLISHED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF BKA&A
COPYRIGHT © BORRECCO/KILIAN & ASSOCIATES, INC.

BORRECCO/KILIAN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
1241 Pine Street
Martinez, California 94553
Phone: 925/372-5306
FAX: 925/372-5308

REGISTERED LANDSCAPE ARCHITECT — BRIAN F. KILIAN — 2358 — Signature — Date — STATE OF CALIFORNIA

REV	DATE	DESCRIPTION

TITLE OF PROJECT
SUBDIVISION 9536
DIABLO CANYON ROAD

DATE: 4/8/20
DRAWN BY: KDF

THIS PLAN IS:

SHEET NUMBER
L-5

TITLE OF DRAWING:
CONCEPT

DISCLAIMER: ALL VELLUM, BOND, TRACE, BLUEPRINT, ETC. DRAWINGS PROVIDED WITH BORRECCO/KILIAN & ASSOCIATES, INC. (BK&A) LANDSCAPE ARCHITECTS, TITLE BLOCK AND/OR SIGNATURE STAMP, IS CONSIDERED TO BE A COPY OF THE ORIGINAL DESIGN RETAINED BY BK&A IN ELECTRONIC FORMAT. BK&A WILL ONLY ACKNOWLEDGE SIGNED AND STAMPED PLANS AND DRAWINGS AFTER COMPARISON AND WRITTEN VERIFICATION WITH THE ORIGINAL ELECTRONIC FILES RETAINED BY BK&A. NO RESPONSIBILITY OR LIABILITY IS EXPRESSED OR IMPLIED FOR ELECTRONIC DATA AND/OR REPRODUCED PLANS AND DRAWINGS USED WITHOUT BK&A'S SIGNATURE.

\\Landscape1\brian's drawings\DeNova Homes\Diablo Canyon\Diablo Cyn FRONT YARD CLP.dwg Apr 29, 2020 - 4:37pm Administrator

TREES, BUGS, DIRT

LANDSCAPE CONSULTING & TRAINING

ARBORIST REPORT

Diablo Canyon

Mitchell Canyon Road, Clayton CA



April 30, 2020

Prepared For: DeNova Homes
1500 Willow Pass Court
Concord CA 94520

PO Box 311, Orinda CA 94563 treesbugsdirt@gmail.com - email 925.254.7950 – Phone

TABLE OF CONTENTS

SUMMARY 3

INTRODUCTION.....3

PURPOSE AND USE *3*

ASSIGNMENT.....*3*

LIMITS OF ASSIGNMENT.....*3*

BACKGROUND *3*

OBSERVATIONS 4

LOCATION.....*4*

SETTING *4*

METHODS.....*4*

DATA SUMMARY.....*5*

RECOMMENDATIONS 5

APPENDIX A – DATA 7

APPENDIX B - RECOMMENDATIONS 14

APPENDIX C - PRESERVATION DETAILS

1) Raising Tree Crown.....17

2) Air Spading & Root Pruning 18

2) Tree Protection Zone.....19

3) Fencing.....20

APPENDIX D - GLOSSARY 21

APPENDIX E – TREE LOCATION MAP.....22

APPENDIX F - CERTIFICATE OF PERFORMANCE ..23

@Trees, Bugs, Dirt 2020. All rights reserved. This report, dated Thursday, April 30, 2020 is for the exclusive and confidential use of Trees, Bugs, Dirt clients and their representatives for this project only, and shall not be reproduced in whole or in part on other occasions without the written permission of Michael Baefsky.

SUMMARY
Fifty eight trees within and next to the proposed development are evaluated. Thirty six of the trees have their trunks located on the site, eighteen trees are on properties bordering the site, and four have trunks in between properties. Thirty nine of the trees evaluated are protected in the City of Clayton. Trunk diameters of all trees evaluated ranges from 47.5" to 3.8", averaging 15.7". Tree health, structural quality, and form ranges from very poor to excellent, averaging fair. Thirty seven trees are proposed for removal due to the project, 660.2 inches of cumulative tree diameter. Twenty one trees are proposed for preservation; one tree on the development site (#37), fifteen trees next to the site, & five trees in fences.

Establishment of fenced tree preservation zones next to fence lines with trees on the other side, and outside of the dripline of the tree to be preserved on site is recommended to prevent tree damage. Pruning to raise tree crowns and prevent damages to branches is also recommended for trees with crowns that spread over the fencelines. Air spade trenching and root pruning is recommended to minimize damages to tree roots. New landscaping beyond wood chip mulch shall not be installed within the dripline of tree #37, and not within five radial feet of tree trunks located offsite next to property lines. I recommend planting *Quercus* agrifolia (coast live oak), and *Quercus lobata* (valley oak) as mitigation trees in numbers and amounts that will equal 660.2 inches in diameter.

INTRODUCTION

PURPOSE AND USE
This report is intended to provide information for the Client and the City of Clayton as part of a development and tree removal permit process.

ASSIGNMENT
I was hired by DeNova Homes (Client), to measure, map, tag, digitally image, inventory & evaluate trees at the development site of the Diablo Canyon property in Clayton CA, and to provide an Arborist Report that includes a summary of my observations, a tree location map, and other relevant information. Only trees within the area to be developed, and directly next to proposed development were evaluated.

LIMITS OF ASSIGNMENT
- Trees were not evaluated below ground or aerially, nor were invasive or destructive methods used to assess tree health
- Trees located outside of the development area, in the proposed preserved open space were not evaluated

BACKGROUND
When the City of Clayton requires an Arborist Report, it must be prepared by an International Society of Arboriculture Certified Arborist, who is independent of a tree removal company. Clayton also requires a tree removal permit prior to removal of trees six inches or greater in diameter. A tree replacement plan when required must include quantity, location, size and species of proposed replacement trees.
The City of Clayton has designated protected trees as those that are of the following species found on site; *Quercus agrifolia, Q. douglasii, Q. lobata, and Juglans hindsii*.

OBSERVATIONS

LOCATION
The site is located between 835-895 Mitchell Canyon Road Clayton CA.

SETTING
The site is vacant and relatively flat, with trees, grasses and herbaceous plants covering the ground. There is a shed at the western end of the building site. Soils on site are mapped as Perkins series, a very deep, well drained soil. Perkins soils typically are loam textured on top of clay loam. Most roots are found in the top two feet of this type of soil.

METHODS
On January 23, 2020 I identified tree species, measured **trunk circumferences** at 4.5 feet above grade, tagged trunks, or noted already tagged trees with either numbered or lettered tags, located trees visually on a site plan, digitally imaged trees and assessed their **health, structural quality** and **form**. Trees with trunks not located on the site were measured when possible or their trunk diameter sizes were estimated if measurement was not possible. Subsequently I evaluated the local soil survey, soils report, and site plans, and provided recommendations for tree preservation that were incorporated in modified designs. Kerri Watt of DeNova homes provided fact-checking edits, along with a summary tree exhibit.

Documents used:

- City of Clayton Municipal Code, Chapter 15.70 Tree Protection Ordinance
- Tree Assessment Plan, September 2019, Hort Science, Bartlett Consulting
- US Soil Survey, Standard Soil Series Descriptions, Oregon State University
- Preliminary Development Plan, C-5, Meridian Associates, Inc., March, 2020
- Preliminary Utility Plan, C-4, Meridian Associates, Inc., March, 2020
- Preliminary Grading and Drainage Plan, C-3, Meridian Associates, Inc., March, 2020

Measurements & Calculations

- Trunk circumferences measured at 4.5 feet above grade, unless otherwise noted due to access problems
- Multiple trunks are combined, and reported as (cumulative) diameter
- Trunk circumferences divided by 3.14 to calculate diameter, and rounded off to one significant digit
- Trunk diameter estimates multiplied by 3.14 to calculate diameter, and rounded off to one significant digit
- Mitigation tree sizes were estimated using the WCISA Species Classification & Group Assignment Guide (2004 WCISA), and information published by local, regional, and state of CA nurseries including Jimenez Nursery, Big Trees Nursery, Specialty Oaks, Inc., Urban Tree Farm, and Devil Mountain Nursery.

More Methods

Health Structure & Form Evaluation Standards

+numerical rating system; zero (dead), one (very poor), two (poor), three (fair), four (good) and five (excellent)

+ form assessed by rating specimens on their deviance from the norm for the species in this region, visual qualities such as attractiveness, and engineering functions such as screening, shading and creating views

+qualitative descriptions and items assessed for health & structure include

- rooting zone - bare, mulched, limited space, weeds, competing vegetation, moisture, debris
- root crown region (trunk & root junction) - buried, clear, pests, diseases, wet, wounds, cavities
- trunk - taper, lack of taper, wounds, lean, growth cracks, stress cracks, pests, diseases, wounds
- scaffold (large, major) branches - taper, distribution of branches, strength of branch connections, wounds, pests
- smaller branches - distribution, size, amount, strength of connections, pests, diseases
- twigs - annual growth, color, size, distribution, dead/live
- foliage - color, size, distribution, pests, diseases, leaf fall

---

DATA SUMMARY - See Appendix A for complete data set

- 58 trees were evaluated
    - 39 protected trees
    - 36 trees with trunks on the development site were assessed
    - 18 trees located directly adjacent to the site were assessed from one side of the fence only
    - 4 trees with trunks embedded in fences were evaluated from one side of the fence only
- 11 species identified, one tree only identified to genus (ash - *Fraxinus*)
- trunk diameter range from 47.5 inches to 3.8 inches, averaging 15.7 inches

---

RECOMMENDATIONS - See Appendix B for complete data set & Appendix C for preservation details

TREES TO BE REMOVED & PRESERVED

- Twenty one trees will be preserved on and adjoining the site
    - One large, old protected blue oak tree (#37)
    - Fifteen trees bordering the site (C, D, E, F, G, H, I, J, K, L, M, N, O, P, 34)
    - Five additional trees with trunks embedded in a fence can be preserved if the new project fence is constructed five feet away from the embedded trunks (26, 27, 28, 29, 35)
- Thirty seven trees (34 protected) are recommended for removal

TREE PROTECTION ZONES

Trees growing within five feet of fence lines are vulnerable to significant root damage. A five foot tree protection zone is recommended from the fence lines north & south into the development area where no foot, vehicle, storage, or any other intrusion is allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within that tree protection zone.

NEW LANDSCAPING

- Landscaping around the protected oak (#37) on site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface.
- Fences on the northern and southern borders shall require absolutely no grading or digging within five radial feet of all protected tree trunks
- New trees shall be selected, installed, and maintained as per requirements of City of Clayton
- If a new fenceline is established for the property, rather than demolishing and reinstalling the existing fenceline, then four border trees can be preserved

DAMAGE PREVENTION & MITIGATION *PRIOR TO ANY & ALL SITE WORK*

- root damage to be minimized as follows
    - air spade along property lines on north & south sides of site
    - prune all exposed roots using sharp sawzall blades
    - cover pruned roots with soil
- crown damage to be minimized either by pruning or tying branches back temporarily
    - raise crown as specified to allow for vehicle and equipment clearance
        - 16 feet above existing grade
        - maintain at least 50% live crown ratio
        - thinning cuts in the 2 inches in diameter and smaller range
        - remove all downward growing branches from zero to fifteen feet above grade
        - shorten branches larger than 2 inches in diameter by heading back to branches at least 1/2 their diameters
        - no more than 25% of crown to be removed in one season

MITIGATION TREES

- Species; *Quercus agrifolia* (coast live oak) and *Q. lobata* (valley oak)
- Total of planted tree diameters should equal 660.2 inches in cumulative diameter

APPENDIX A - DATA

#	Name	*Species*	*Trunk Circumfer-ence (inches)*	Trunk Diameter (inches)	*Pro-tected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
1	valley oak	*Quercus lobata*	*34,30.5*	20.5	YES	*fair*	*poor*	*poor*	*Rooting zone limited, root crown buried, trunks leaning, unbalanced*	YES
2	valley oak	*Quercus lobata*	*34.0*	10.8	YES	*fair*	*fair*	*poor*	*Rooting zone limited, root crown not clear, codominant high trunks with included bark*	YES
3	valley oak	*Quercus lobata*	*43.0*	13.7	YES	*poor*	*fair*	*poor*	*Measured at 4'. Rooting zone limited, root crown not clear, multiple scaffolds well pruned under power lines , stunted twig growth*	YES
4	valley oak	*Quercus lobata*	*48,64*	35.7	YES	*fair*	*fair*	*fair*	*Codominant trunks with included bark*	YES
5	valley oak	*Quercus lobata*	*34,53*	24.5	YES	*fair*	*poor*	*poor*	*Rooting zone limited, root crown not clear, leaning trunk, scaffolds topped*	YES
6	valley oak	*Quercus lobata*	*18.5,24.5*	13.7	YES	*fair*	*fair*	*poor*	*Rooting zone limited, root crown not clear, multiple trunks with included bark, upright form*	YES
7	valley oak	*Quercus lobata*	*41.0*	13.1	YES	*fair*	*good*	*good*	*Rooting zone limited, root crown not clear, excellent balance & branch distribution*	YES

#	Name	*Species*	*Trunk Circumfer-ence (inches)*	Trunk Diameter (inches)	*Pro-tected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
8	valley oak	*Quercus lobata*	*88.0*	28.0	YES	*good*	*fair*	*good*	*Root crown clear, codominant trunks with included bark*	YES
9	valley oak	*Quercus lobata*	*19.0*	6.1	YES	*poor*	*poor*	*poor*	*Stunted*	YES
10	Monte rey pine	*Pinus radiata*	*94.2*	30.0	NO	*fair*	*fair*	*poor*	*TRUNK OFFSITE. Diameter estimated, rooting zone limited, 1/3 tree deformed, unbalanced, stubbed back for utility line clearance*	NO
11	valley oak	*Quercus lobata*	*26.5*	8.4	YES	*fair*	*fair*	*fair*	*Next to fence*	YES
12	almon d	*Prunus dulcis*	*14.5,15,14 .5,9,3*	17.8	NO	*poor*	*poor*	*poor*	*Circumference at 12" = 26,17. Trunk leaning, stunted*	YES
13	valley oak	*Quercus lobata*	*39.5*	12.6	YES	*fair*	*good*	*fair*	*Next to fence*	YES
14	Ca black walnut	*Juglans hindsii*	*30,35,84*	47.5	YES	*very poor*	*very poor*	*very poor*	*Only 6 1-2" diameter stump sprouts alive*	YES
15	valley oak	*Quercus lobata*	*25.5,16*	13.2	YES	*fair*	*fair*	*fair*		YES
16	valley oak	*Quercus lobata*	*28.0*	8.9	YES	*fair*	*poor*	*poor*	*Unbalanced from old topping, recovered*	YES

#	Name	*Species*	*Trunk Circumfer-ence (inches)*	Trunk Diameter (inches)	*Pro-tected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
17	valley oak	*Quercus lobata*	*118.0*	37.6	YES	*good*	*good*	*excell ent*	*Oozing trunk wound, indented trunk under scaffold, multiple trunks with included bark , raccoon latrine in main crotch*	YES
18	coast live oak	*Quercus agrifolia*	*12,15,20*	15.0	YES	*excellen t*	*fair*	*fair*	*Codominant trunks with included bark , root crown buried*	YES
19	Ca black walnut	*Juglans hindsii*	*23.0*	7.3	YES	*fair*	*poor*	*fair*	*Stump sprout*	YES
20	valley oak	*Quercus lobata*	*21.5,11,11*	13.9	YES	*fair*	*poor*	*poor*	*Severe pit scale infestation, codominant trunks & scaffolds with included bark*	YES
21	valley oak	*Quercus lobata*	*24.0*	7.6	YES	*fair*	*poor*	*poor*	*Twisted leaning trunk*	YES
22	valley oak	*Quercus lobata*	*26,26,20,9*	25.2	YES	*fair*	*poor*	*fair*	*Stump sprout*	YES
23	valley oak	*Quercus lobata*	*30.5,13*	13.2	YES	*fair*	*fair*	*fair*	*Codominant trunks with included bark narrow form*	YES
24	valley oak	*Quercus lobata*	*22,26.5*	15.4	YES	*fair*	*fair*	*fair*	*Codominant trunks with included bark*	YES
25	valley oak	*Quercus lobata*	*42,20*	19.7	YES	*fair*	*fair*	*good*	*Stump sprout*	YES
26	valley oak	*Quercus lobata*	*29.0*	9.2	YES	*fair*	*poor*	*poor*	*Embedded in fence, trunk leaning towards property*	bee - tween

#	Name	*Species*	*Trunk Circumfer-ence (inches)*	Trunk Diameter (inches)	*Pro-tected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
27	valley oak	*Quercus lobata*	*36.0*	11.5	YES	*good*	*poor*	*poor*	*Embedded in fence, trunk leaning towards property*	bee - tween
28	valley oak	*Quercus lobata*	*18.0*	5.7	YES	*fair*	*poor*	*poor*	*Trunk through fence embedded, growth into property*	bee - tween
29	valley oak	*Quercus lobata*	*34.0*	10.8	YES	*fair*	*poor*	*fair*	*Trunk through fence embedded, growth into property*	bee - tween
30	coast live oak	*Quercus agrifolia*	*42.5*	13.5	YES	*excellen t*	*good*	*good*	*Near power pole, next to fence , trunk leaning*	YES
31	almon d	*Prunus dulcis*	*14,21,13,1 5,3,6*	22.9	NO	*good*	*poor*	*good*	*Codominant trunks*	YES
32	coast live oak	*Quercus agrifolia*	*24.0*	7.6	YES	*fair*	*poor*	*poor*	*Suppressed by large dead Ca black walnut , codominant trunks with included bark*	YES
33	valley oak	*Quercus lobata*	*52.0*	16.6	YES	*fair*	*poor*	*fair*	*Mistletoe x2, codominant trunks, large trunk wound*	YES
34	olive	*Olea europae a*	*36,9,9,9,1 5,9*	28.7	NO	*excel-lent*	*poor*	*good*	*TRUNK OFFSITE. New tag, 3' from fence, branches 15' into property , multiple trunks*	NO
35	olive	*Olea europae a*	*30,9,9,6,7, 9*	22.3	NO	*good*	*poor*	*fair*	*TRUNK OFFSITE. 1 foot from fence, growing through fence, multiple trunks*	NO

#	Name	*Species*	*Trunk Circumfer-ence (inches)*	Trunk Diameter (inches)	*Pro-tected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
36	valley oak	*Quercus lobata*	*25.0*	8.0	YES	*poor*	*fair*	*poor*	*Stunted*	YES
37	blue oak	*Quercus douglasii*	*124.0*	39.5	YES	*fair*	*good*	*excell ent*		YES
38	coast live oak	*Quercus agrifolia*	*46.0*	14.6	YES	*good*	*fair*	*excell ent*	*Codominant trunks with included bark*	YES
84	*valley oak*	*Quercus lobata*	*44.0*	*14.0*	YES	*fair*	*fair*	*fair*	*size & species extrapolated from photo*	YES
85	ash	*Fraxinus spp.*	*84,31*	36.6	NO	*poor*	*poor*	*fair*	*Root crown not clear, multiple trunks with included bark, mistletoe profuse, stunted*	YES
86	coast live oak	*Quercus agrifolia*	*23,16,16*	17.5	YES	*excel-lent*	*fair*	*good*	*Fence splitting trunk*	YES
87	valley oak	*Quercus lobata*	*80.0*	25.5	YES	*poor*	*good*	*good*	*Profuse mistletoe, low branches*	YES
A	coast live oak	*Quercus agrifolia*	*20,9,9,4,3*	14.3	YES	*good*	*poor*	*poor*	*Growing into fence*	YES
B	plum	*Prunus spp.*	*30.0*	9.6	NO	*poor*	*poor*	*poor*	*Trunk at 12", at 4.5' diameter = 3", 3.5,3.5,2.5,2.5,3.5, 3*	NO
C	coast redwood	*Sequoia sempervirens*	*18.8*	*6*	NO	*good*	*fair*	*fair*	*TRUNK OFFSITE. 30" from fence , girdling root*	NO

#	Name	*Species*	*Trunk Circumference (inches)*	Trunk Diameter (inches)	*Protected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
D	coast redwood	*Sequoia sempervirens*	*31.4*	*10*	NO	*good*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
E	coast redwood	*Sequoia sempervirens*	*31.4*	*10*	NO	*good*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
F	coast redwood	*Sequoia sempervirens*	*37.7*	*12*	NO	*good*	*good*	*good*	*TRUNK OFFSITE. 30" from fence, ivy up trunk*	NO
G	coast redwood	*Sequoia sempervirens*	*37.7*	*12*	NO	*good*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
H	coast redwood	*Sequoia sempervirens*	*37.7*	*12*	NO	*good*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
I	coast redwood	*Sequoia sempervirens*	*25.1*	*8*	NO	*good*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
J	coast redwood	*Sequoia sempervirens*	*44.0*	*14*	NO	*good*	*good*	*good*	*TRUNK OFFSITE 26" from fence, ivy up trunk*	NO
K	coast redwood	*Sequoia sempervirens*	*40.8*	*13*	NO	*excellent*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
L	coast redwood	*Sequoia sempervirens*	*34.5*	*11*	NO	*fair*	*good*	*good*	*TRUNK OFFSITE. 30" from fence*	NO
M	blue oak	*Quercus douglasii*	*21.5*	6.8	YES	*good*	*fair*	*fair*	*Growing through fence*	NO

#	Name	*Species*	*Trunk Circumfer-ence (inches)*	Trunk Diameter (inches)	*Pro-tected*	*Health*	*Structure*	*Form*	*Notes*	Trunk on Site
N	Aleppo pine	*Pinus hale-pensis*	*38.0*	12.1	NO	*good*	*good*	*fair*	*TRUNK OFFSITE. 5' from fence, branches 15' into property*	NO
O	Aleppo pine	*Pinus hale-pensis*	*12.0*	3.8	NO	*fair*	*fair*	*fair*	*TRUNK OFFSITE. 6' from fence, branches 9' over, trunk leaning*	NO
P	Ca pepper -tree	*Schinus molle*	*30.0*	9.6	NO	*good*	*fair*	*fair*	*TRUNK OFFSITE. 2' from fence growing 9' onto property*	NO

APPENDIX B - RECOMMENDATIONS

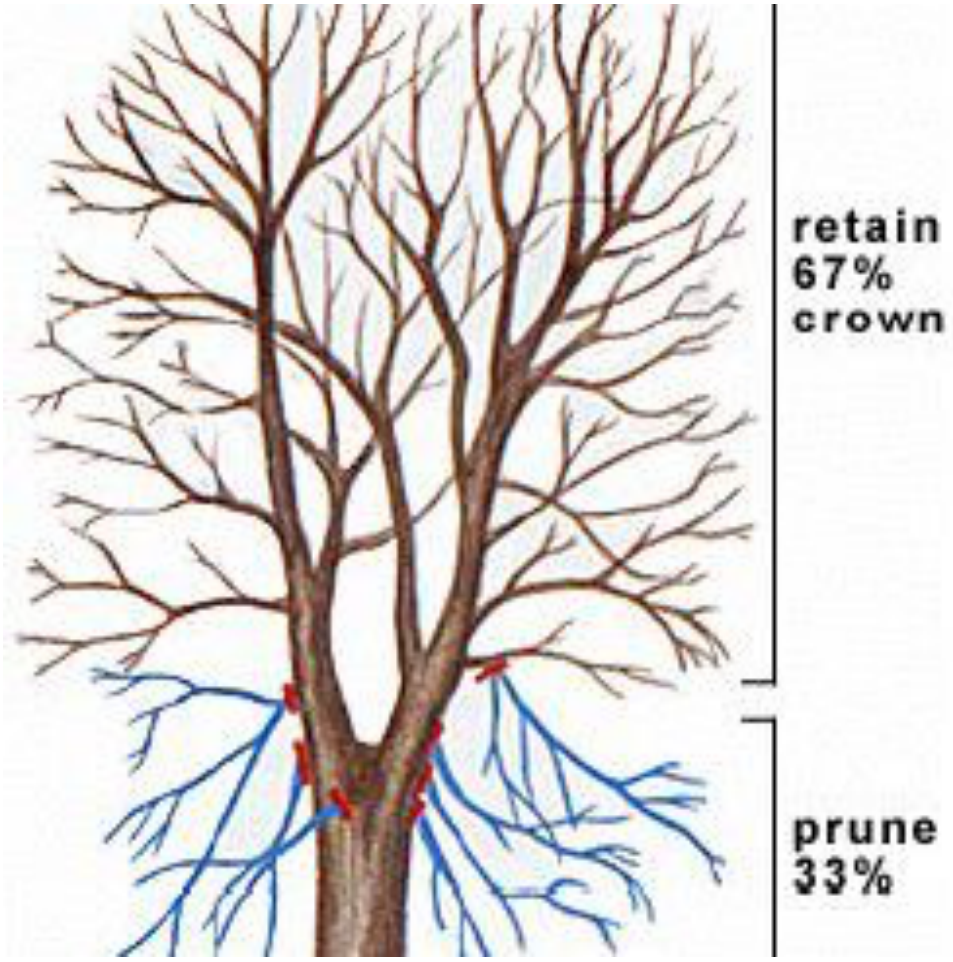
#	Name	*PROTECTED*	Trunk Diameter (inches)	REMOVE	Prune Roots & Crown	Tree Protection Zone
1	valley oak	YES	20.5	yes	-	-
2	valley oak	YES	10.8	yes	-	-
3	valley oak	YES	13.7	yes	-	-
4	valley oak	YES	35.7	yes	-	-
5	valley oak	YES	24.5	yes	-	-
6	valley oak	YES	13.7	yes	-	-
7	valley oak	YES	13.1	yes	-	-
8	valley oak	YES	28.0	yes	-	-
9	valley oak	YES	6.1	yes	-	-
10	Monterey pine	NO	30.0	yes	-	-
11	valley oak	YES	8.4	yes	-	-
12	almond	NO	17.8	yes	-	-
13	valley oak	YES	12.6	yes	-	-
14	Ca black walnut	YES	47.5	yes	-	-
15	valley oak	YES	13.2	yes	-	-
16	valley oak	YES	8.9	yes	-	-
17	valley oak	YES	37.6	yes	-	-
18	coast live oak	YES	15.0	yes	-	-

#	Name	*PROTECTED*	Trunk Diameter (inches)	REMOVE	Prune Roots & Crown	Tree Protection Zone
19	Ca black walnut	YES	7.3	yes	-	-
20	valley oak	YES	13.9	yes	-	-
21	valley oak	YES	7.6	yes	-	-
22	valley oak	YES	25.2	yes	-	-
23	valley oak	YES	13.2	yes	-	-
24	valley oak	YES	15.4	yes	-	-
25	valley oak	YES	19.7	yes	-	-
26	valley oak	YES	9.2	no *if x2 fence*	-	-
27	valley oak	YES	11.5	no *if x2 fence*	-	-
28	valley oak	YES	5.7	no *if x2 fence*	-	-
29	valley oak	YES	10.8	no *if x2 fence*	-	-
30	coast live oak	YES	13.5	yes	-	-
31	almond	NO	22.9	yes	-	-
32	coast live oak	YES	7.6	yes	-	-
33	valley oak	YES	16.6	yes	-	-
34	olive	NO	28.7	no	+	yes
35	olive	NO	22.3	no *if x2 fence*	-	-
36	valley oak	YES	8.0	yes	-	-
37	blue oak	YES	39.5	no	+	yes
38	coast live oak	YES	14.6	yes	-	-
84	valley oak	YES	14.0	yes	-	-
85	ash	NO	36.6	yes	-	-
86	coast live oak	YES	17.5	yes	+	yes
87	valley oak	YES	25.5	yes	-	-

#	Name	*PROTECTED*	Trunk Diameter (inches)	REMOVE	Prune Roots & Crown	Tree Protection Zone
A	coast live oak	YES	14.3	yes	+	yes
B	plum	NO	9.6	yes	+	yes
C	coast redwood	NO	*6*	no	+	yes
D	coast redwood	NO	*10*	no	+	yes
E	coast redwood	NO	*10*	no	+	yes
F	coast redwood	NO	*12*	no	+	yes
G	coast redwood	NO	*12*	no	+	yes
H	coast redwood	NO	*12*	no	+	yes
I	coast redwood	NO	*8*	no	+	yes
J	coast redwood	NO	*14*	no	+	yes
K	coast redwood	NO	*13*	no	+	yes
L	coast redwood	NO	*11*	no	+	yes
M	blue oak	YES	6.8	no	+	yes
N	Aleppo pine	NO	12.1	no	+	yes
O	Aleppo pine	NO	3.8	no	+	yes
P	Ca peppertree	NO	9.6	no	+	yes

APPENDIX C - PRESERVATION DETAILS

1) CROWN RAISING DETAIL



RAISE

"Pruning to provide vertical clearance." American National Standard ANSI A300 (Part 1)-2008.
Removal of the lower branches of a tree to provide clearance, fire safety or to increase aesthetic quality.

SPECIFICATIONS

- Clearance:
  - Three to six foot clearance from vegetated ground
  - Five to Six foot foot clearance from walls, gutters, roofs and lights
  - Fourteen foot clearance above all areas to be graded
- Size of cuts: small diameter cuts are preferred, in the range of one to three inches
- Type of cuts: thinning or proper reduction cuts only, unless approved ahead of time
- Balance: aesthetic and structural balance shall be maintained at all times

2) AIR SPADING & ROOT PRUNING



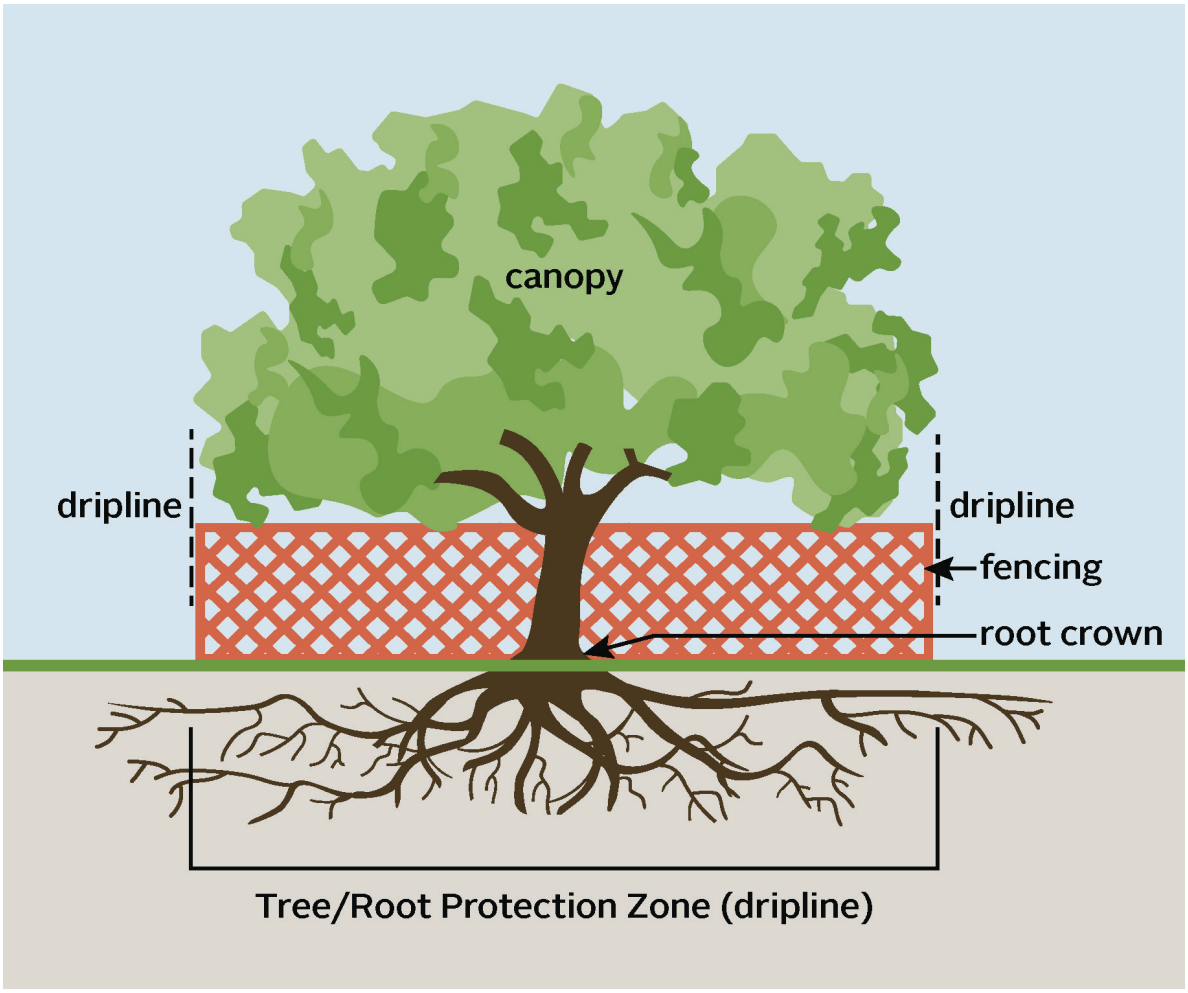
roots exposed by blowing away soil = air spading

ROOT EXPOSURE & PRUNING: Exposed & cut roots cleanly prior to work near tree to minimize damage to remaining roots and reduce the risk of causing disease, decay and instability.

SPECIFICATION

- Expose roots along outside edge of 5 foot fenceline setback with air spade or other tool that uses compressed air
- Sharply cut completely and cleanly through all roots
- Use reciprocating saw with sharp blades or circular saws of varying types and/or a rotary-type stump grinder
- Saw blades or grinder teeth should be sharpened prior to use, and sharpness maintained
- Unless immediately backfilled after pruning, as a temporary measure, place burlap material and/or spread mulch over exposed roots after cuts are made and before soil is replaced. Keep this material damp until backfilled to prevent the fine roots from drying and dying
- Since root pruning occurs along or behind the line of planned construction, it should be coordinated with the tree protection fencing

3) TREE PROTECTION ZONE (TPZ) DETAIL



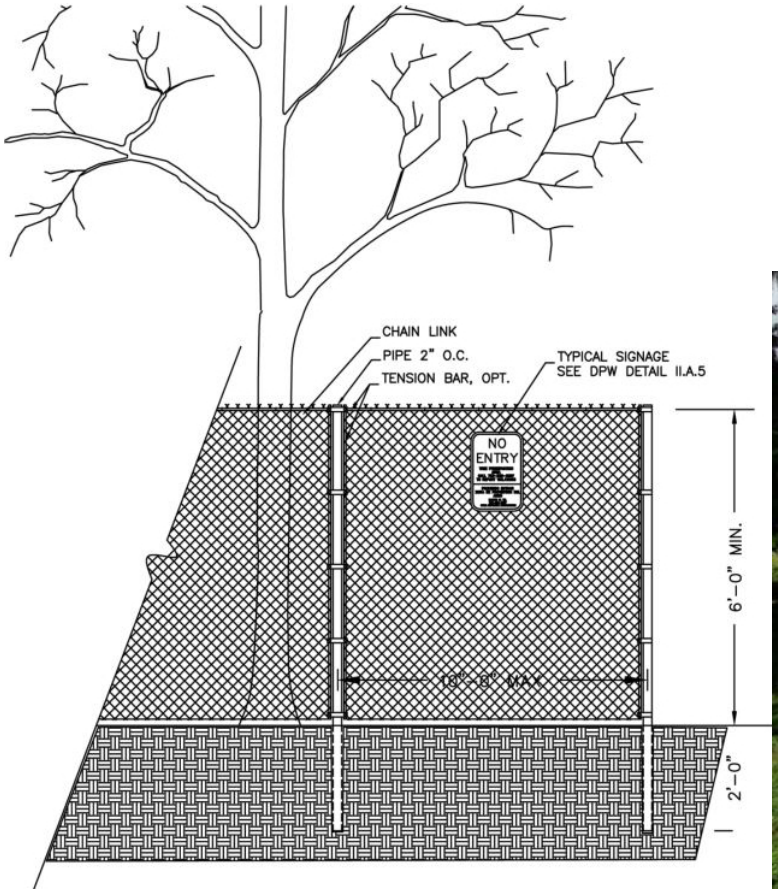
Permitted Within TPZ

- Mulching – should be used during construction to protect the soil from compaction, conserve soil moisture, and moderate soil temperature. Spread wood chips to a depth of 4 (four) inches, leaving the trunk clear of mulch.
- Irrigation, aeration, or other beneficial practices that have been specifically approved for use by the Project Consulting Arborist

Prohibited Within TPZ

- Storage of construction materials, debris, or excavated material.
- Parking vehicles or equipment.
- Foot traffic.
- Erection of sheds or structures.
- Drainage changes or impoundment of water.
- Cutting tree roots by utility trenching, foundation digging, placement of curbs, trenches and other miscellaneous excavation or other digging.
- Soil disturbance, soil compaction or grade change.
- Washout activities

4) FENCING DETAIL





SPECIFICATION

- Tree protection fence is required along the edge of all Tree Protection Zones; outside of dripline for tree #37, outside of five foot property line setback for northern & southern borders
- Orange vinyl construction fencing, snow fencing or other similar fencing should be at least 4 feet high and supported at a maximum of 10 foot intervals by metal T-posts or approved methods sufficient enough to keep the fence upright and in place. T-posts shall be a minimum of 2 feet in the ground. Wooden stakes and rebar posts are not considered as an approved method sufficient enough to keep the fence upright and in place.
- Chain link fence shall be 6 feet tall with 2 inch mesh chain link fabric. 2 inch posts shall be tied with 6 gauge aluminum wire ties at 24 inch on center. Posts shall be a minimum of 2 feet in the ground and spaced at a maximum of 10 feet on center. Plastic zip-ties may not be used.

APPENDIX D - GLOSSARY

dripline - region underneath tree canopy

form - genetically determined appearance that includes spread, height & configuration

health - tree growth as expressed by foliage, twigs, branches & trunks including resistance to pests

root crown – region where trunk and root system meet, also called `buttress' or `butt'

rooting zone – area where roots are likely to survive, beginning at the trunk and extending up to three times the radius of a tree's dripline region

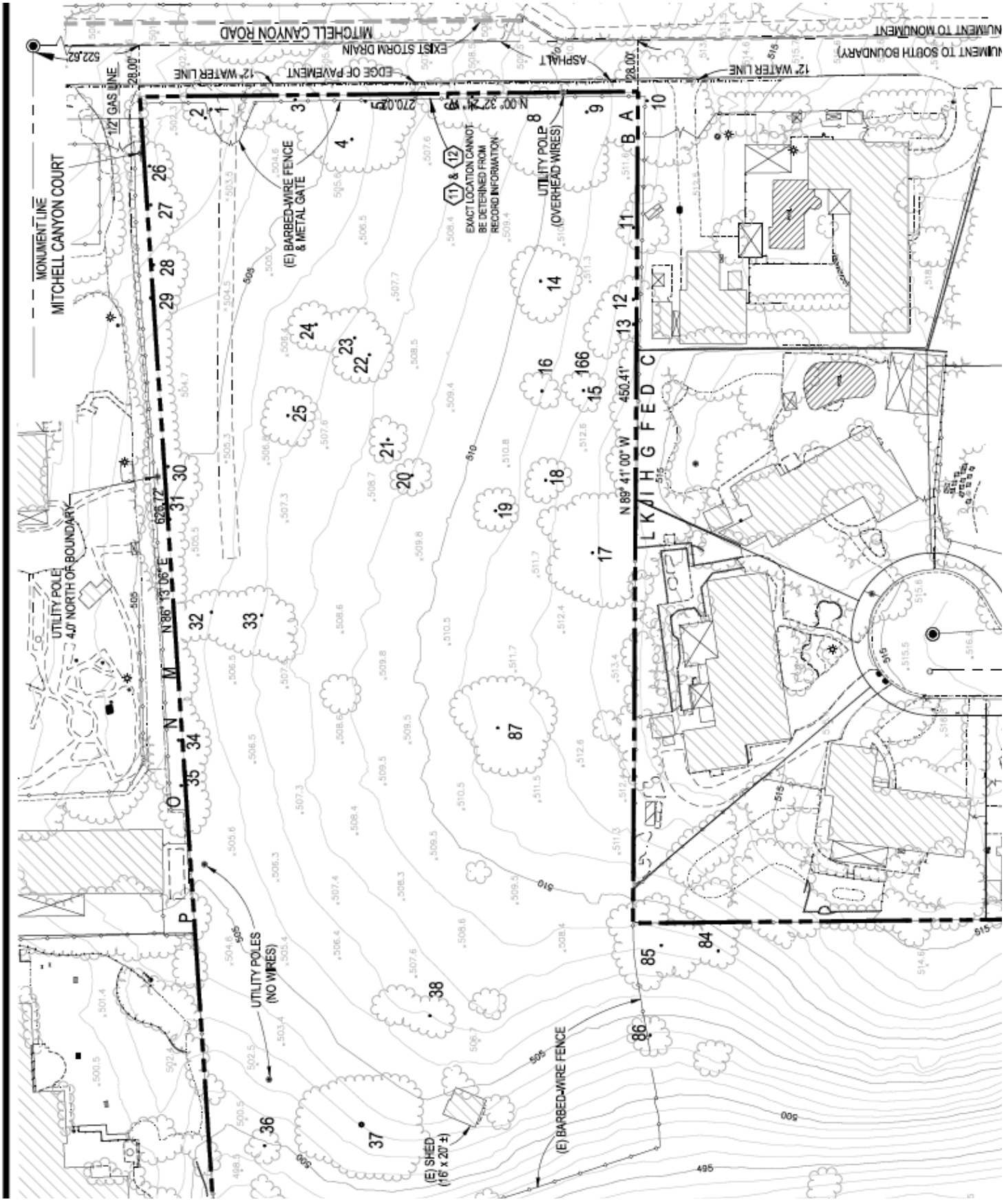
scaffold – large, structural branch

structure - physical and mechanical qualities of tree

trunk circumference – measurement of trunk, distance around

trunk diameter - trunk circumference divided by 3.14

APPENDIX E - TREE LOCATION MAP *ALSO AVAILABLE AS PDF FILE*

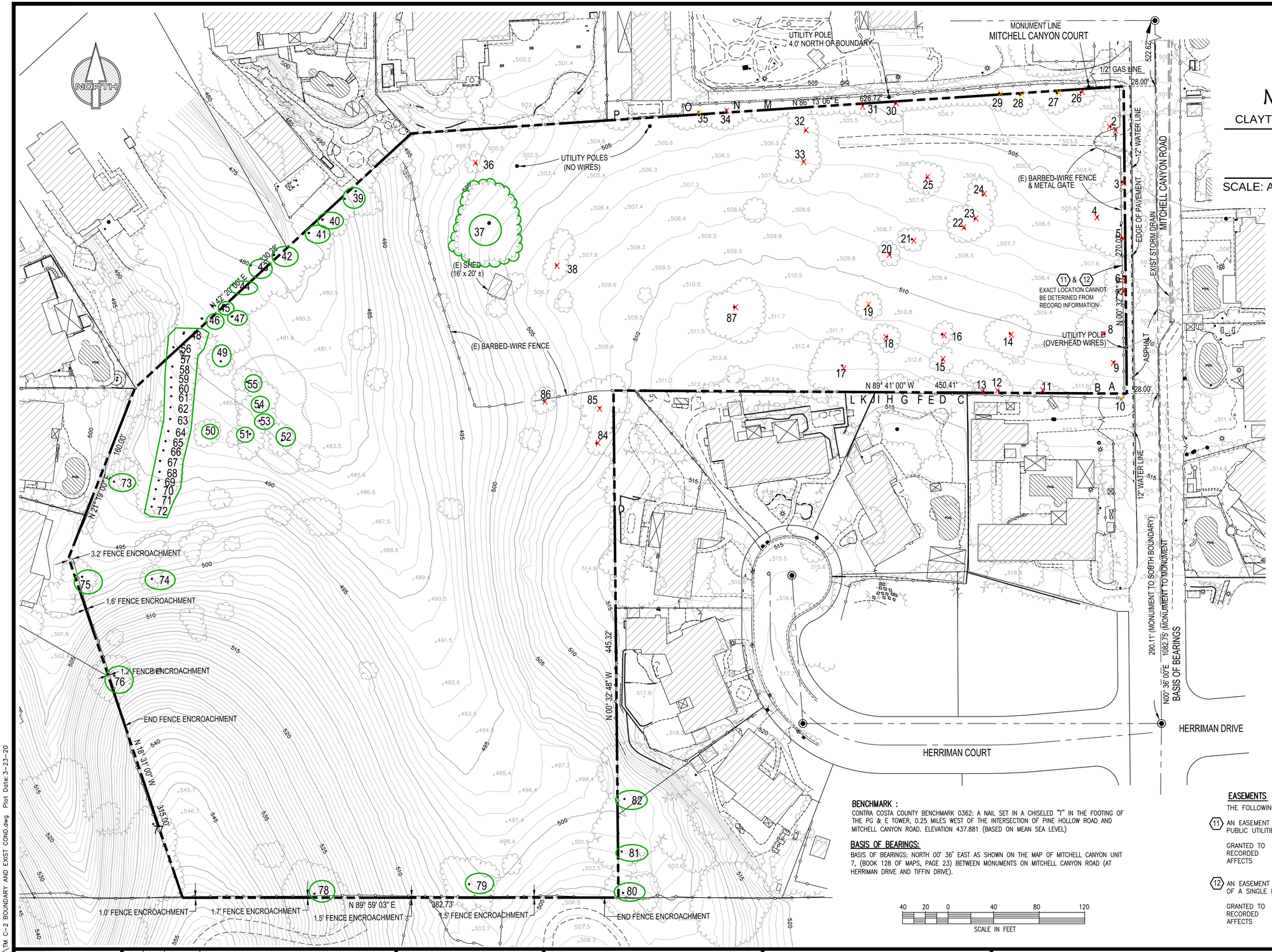


APPENDIX F - CERTIFICATE OF PERFORMANCE

I, Michael Baefsky certify:

- That I have reviewed the The City of Clayton Municipal Code, Chapter 15.70 Tree Protection
- That I have evaluated the subject trees, and stated my findings accurately. The extent of the evaluation is stated in the attached report;
- That I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions, and conclusions stated herein are my own;
- That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted professional practices;
- That no one provided significant professional assistance to the consultant, except as indicated within the report;
- That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I certify that I am Registered Consulting Arborist #456, a member of the American Society of Consulting Arborists, and am Certified Arborist & Qualified Risk Assessor #WE0222A, Agricultural Pest Control Advisor #074617, Qualified Applicator #99864, Licensed Landscape Contractor (inactive) #931410, and have been involved in the practice of Arboriculture, Integrated Pest Management, Plant Health Care and Ecological Soils Management, and the study of soils and horticulture for over thirty years.



MITCHELL CANYON ROAD

CLAYTON CONTRA COSTA COUNTY • CALIFORNIA

SCALE: AS SHOWN MARCH, 2020

LEGEND & ABBREVIATIONS

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EASEMENT
- STORM DRAIN LINE
- SEWER LINE
- FOUND STANDARD CITY STREET MONUMENT
- FOUND SURVEY MONUMENT AS NOTED
- MANHOLE (TYPE AS NOTED)
- CATCH BASIN (ADJACENT TO MANHOLE TYPICAL)
- CATCH BASIN(S)
- WATER VALVE
- STREET LIGHT (PRIVATE)
- STREET LIGHT (PUBLIC)
- UTILITY BOX/VAULT (TYPE AS NOTED)
- •16 TREE TRUNK LOCATION & NUMBER (SEE ARBORIST REPORT)
- ◦ S. SIGN

BFP	BACKFLOW PREVENTER	JP	POWER POLE (JOINT SERVICE)
C.	CONCRETE	SD	STORM DRAIN
CB	CATCH BASIN (STORM DRAIN INLET)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	SF	SQUARE FEET
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL (PG&E)	SS	SANITARY SEWER
(E)	EXISTING	SSMH	SANITARY SEWER MANHOLE
F	FIRE (WATER) SERVICE LINE	T	TELEPHONE (COMMUNICATIONS, SBC, PG&E)
FDC	FIRE DEPARTMENT CONNECTION	W	WATER MAIN
FH	FIRE HYDRANT	WM	WATER METER
G	GAS	WV	WATER VALVE
GV	GAS VALVE		

BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

EASEMENTS (NUMBERING AND LANGUAGE CORRESPONDS WITH THE TITLE REPORT)

THE FOLLOWING EASEMENTS AFFECT PARCEL 1:

(11) AN EASEMENT FOR CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF PUBLIC UTILITIES AND INCIDENTAL PURPOSES.

GRANTED TO : PACIFIC TELEPHONE AND TELEGRAPH COMPANY
RECORDED : SEPTEMBER 16, 1914 IN BOOK 227 OF DEEDS, PAGE 283
AFFECTS : THE NORTHWEST 1/4 OF SECTION 14 (DESCRIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

(12) AN EASEMENT FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF A SINGLE LINE OF POLES, TELEPHONE AND TELEGRAPH LINES AND INCIDENTAL PURPOSES.

GRANTED TO : VALLEY PIPE LINE COMPANY, A CALFORNIA CORPORATION
RECORDED : MAY 20, 1915 IN BOOK 241 OF DEEDS, PAGE 331
AFFECTS : A PORTION OF THE NORTHWEST 1/4 OF SECTION 14 (DESCIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

DATE: MARCH, 2020			LEGEND FOR TREES
SCALE:			
DRAWN: TJB/YPS		X	TREES TO BE REMOVED
DESIGNED: HK/TB		X	POTENTIAL TREES TO BE REMOVED
ENGINEER: JR		◯	TREES TO REMAIN
MANAGER: HK	NO.	BY	DATE REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO CANYON

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO.

JOB NO. 18-16-00

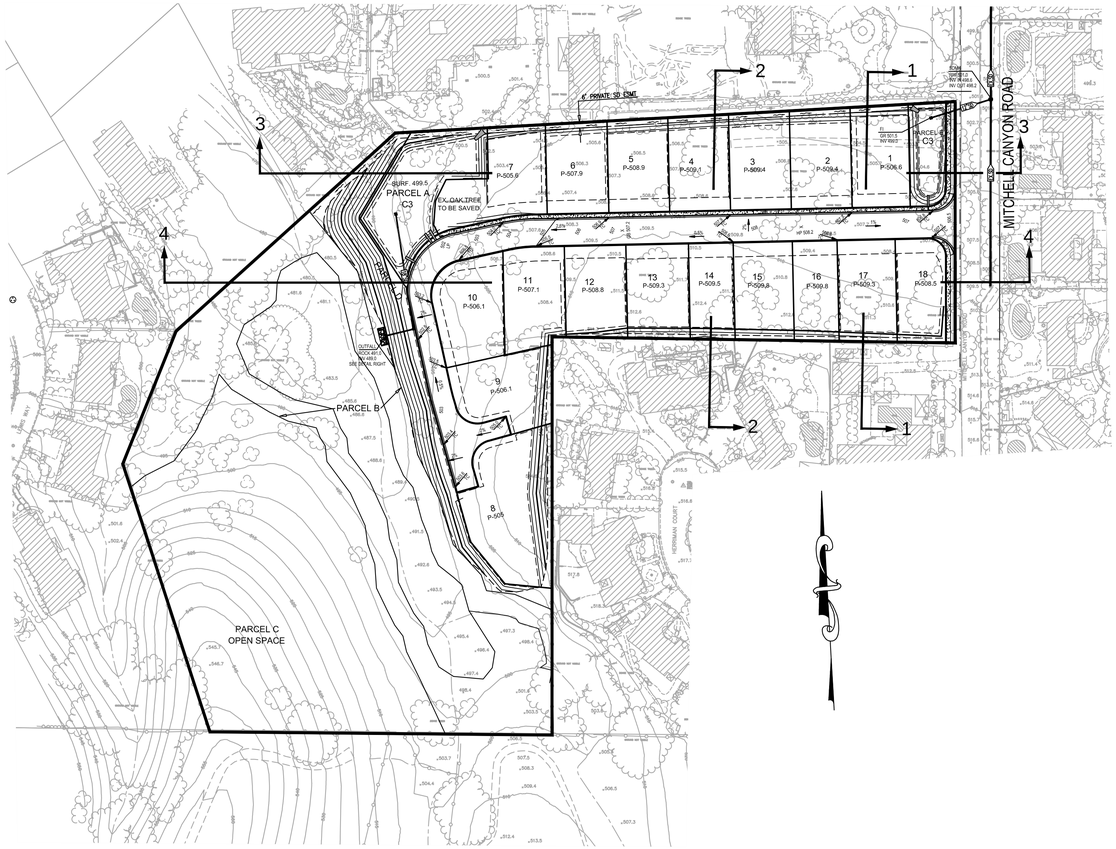
M:\Jobs\18-16-00\TM\TM C-2 BOUNDARY AND EXIST COND.dwg Plot Date:3-23-20

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

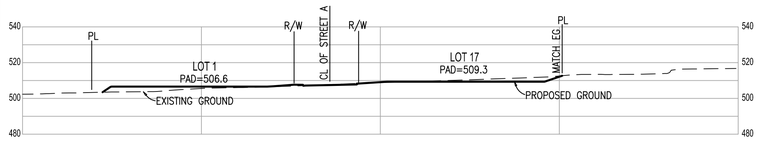
SITE X-SECTIONS

SCALE: AS SHOWN

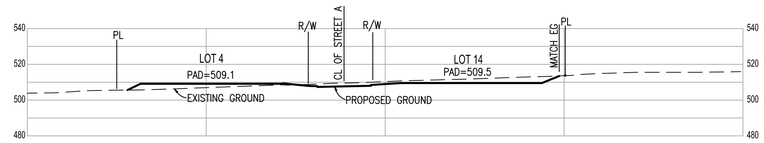
APRIL, 2020
UPDATED: JULY, 2020



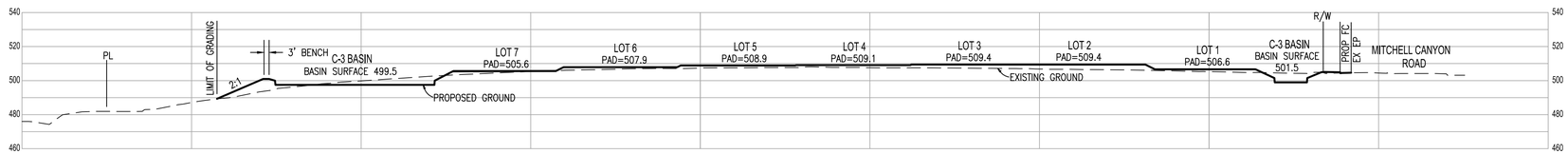
SITE PLAN
SCALE: 1" = 80' HORIZONTAL



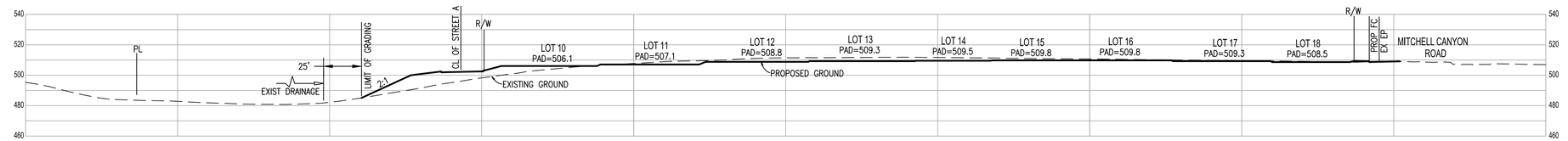
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

SITE SECTIONS
SCALE: 1" = 40' HORIZONTAL & VERTICAL

80 40 0 80 160 240
SCALE IN FEET

M:\Jobs\18-16-00\TM\TM C-3 GRADING.dwg Plot Date:8-11-20

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

SITE X-SECTINONS

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO.
OF SHEETS
JOB NO. 18-16-00

ATTACHMENT P - EARTHWORK CALCS EXHIBIT



Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
EG-FG-2 TM	1.000	1.000	197189.49 Sq. Ft.	9982.91 Cu. Yd.	9628.11 Cu. Yd.	354.80 Cu. Yd.<Cut>
Totals			197189.49 Sq. Ft.	9982.91 Cu. Yd.	9628.11 Cu. Yd.	354.80 Cu. Yd.<Cut>

100 50 0 100

SCALE: 1"=100'

PRELIMINARY EARTHWORK ANALYSIS

DIABLO MEADOWS

CLAYTON, CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1470 CIVIC COURT, SUITE 360
WALNUT CREEK, CA 94598
PHONE: 925-691-7300
FAX: 925-691-7110

First American Title

First American Title Company
4750 Willow Road, Suite 275
Pleasanton, CA 94588

File No.: 0131-623819ala (KS)

This report has been amended/updated to reflect the following matters:

[ ] No changes made to the report other than the Effective Date

[ ] Property address has been revised

[X] Vesting has been revised

[ ] Legal Description has been revised

[ ] Taxes have been updated

[X] Original item number(s) 14, 15, 21 and 22 have been removed

[ ] New item number(s) have been added

[ ] Original item number(s) have been revised

[ ] Other:

March 5, 2020



First American Title

First American Title Company

4750 Willow Road, Suite 275
Pleasanton, CA 94588
California Department of Insurance License No. 151

Escrow Officer:	Diane Burton
Phone:	(925)738-4050
Fax No.:	(866)648-7806
E-Mail:	dburton@firstam.com
Title Officer:	Kimberly Speer
Phone:	(925)356-7195
Fax No.:	(714)689-4257
E-Mail:	kspeer@firstam.com
E-Mail Loan Documents to:	Lenders please contact the Escrow Officer for email address for sending loan documents.
Owner:	The Fred Clayton Trust
Property:	Mitchell Canyon Road Clayton, CA 94517

PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. *The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties*. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of December 13, 2019 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

ALTA Extended Loan Policy - 2006

ALTA Extended Owner Policy - 2006

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

Fred B. Clayton and Karen E. Isobe, Trustees, Fred Clayton Trust

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A fee.

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2019-2020.

First Installment:	$677.05, PAID
Penalty:	$67.70
Second Installment:	$677.05, OPEN
Penalty:	$0.00
Tax Rate Area:	13-006
A. P. No.:	121-090-011-2

Affects: PORTION OF THE LAND

2. General and special taxes and assessments for the fiscal year 2019-2020.

First Installment:	$423.13, PAID
Penalty:	$42.31
Second Installment:	$423.13, OPEN
Penalty:	$0.00
Tax Rate Area:	13-006
A. P. No.:	121-090-016-1

Affects: PORTION OF THE LAND

3. Assessment liens, if applicable, collected with the general and special taxes, including but not limited to those disclosed by the reflection of the following on the tax roll:

Community Facilities District MT DIABLO MELLO ROOS.

Affects: APN: 121-090-016-1

Community Facilities District CLAYTON CFD 2006-1.

Community Facilities District CLAYTON CFD 2007-1.

4. Intentionally Deleted

5. The land lies within the boundaries of proposed community facilities District No. 1991-1, as disclosed by a map filed June 18, 1991 in Map Book 45, Page 4 of maps of assessment and community facilities districts, recorded June 18, 1991 as Instrument No. 1991-116423, of Official Records.

   The terms and provisions contained in the document entitled "Resolution No. 35-91 Resolution of Intention to Establish Community Facilities District No. 1991-1 and to Authorize the Levy of a Special Tax Within the Proposed District Community Facilities District No. 1991-1" recorded June 18, 1991 as Instrument No. 1991-116424 of Official Records.

6. Intentionally Deleted

7. Intentionally Deleted

8. Intentionally Deleted

9. Intentionally Deleted

10. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

11. An easement for the construction, installation, maintenance, repair and operation of pubic utilities and incidental purposes, recorded September 16, 1914 in Book 227 of Deeds, Page 283.
    In Favor of: Pacific Telephone and Telegraph Company
    Affects: as described therein

    The location of the easement cannot be determined from record information.

12. An easement for the construction, installation, maintenance, repair and operation of a single line of poles, telephone and telegraph lines and incidental purposes, recorded May 20, 1915 in Book 241 of Deeds, Page 331.
    In Favor of: Valley Pipe Line Company, a California corporation
    Affects: as described therein

The location of the easement cannot be determined from record information.

13. Intentionally Deleted

14. Intentionally Deleted

15. Intentionally Deleted

16. Any claim that the Title is subject to a trust or lien created under The Perishable Agricultural Commodities Act, 1930 (7 U.S.C. §§499a, et seq.) or the Packers and Stockyards Act (7 U.S.C. §§181 et seq.) or under similar state laws.

17. Intentionally Deleted

18. Water rights, claims or title to water, whether or not shown by the public records.

19. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/NSPS survey.

20. Rights of parties in possession.

Prior to the issuance of any policy of title insurance, the Company will require:

21. Intentionally Deleted

22. Intentionally Deleted

23. An ALTA/NSPS survey of recent date which complies with the current minimum standard detail requirements for ALTA/NSPS land title surveys.

INFORMATIONAL NOTES

Note: The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than the certain dollar amount set forth in any applicable arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. If you desire to review the terms of the policy, including any arbitration clause that may be included, contact the office that issued this Commitment or Report to obtain a sample of the policy jacket for the policy that is to be issued in connection with your transaction.

1. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) COMMERCIAL STRUCTURE known as No Situs found , Clayton, California.

   Affects: APN: 121-090-011-2

2. The property covered by this report is vacant land.

   Affects: APN: 121-090-016-1

3. According to the public records, there has been no conveyance of the land within a period of twenty four months prior to the date of this report, except as follows:

   A document recorded September 05, 2018 as INSTRUMENT NO. 2018141867 OF OFFICIAL RECORDS
   From: FRED B. CLAYTON AND KAREN E. ISOBE, TRUSTEES, CLAYTON FAMILY TRUST
   To: FRED B. CLAYTON AND KAREN E. ISOBE, TRUSTEES, FRED CLAYTON TRUST

4. We find no outstanding voluntary liens of record affecting subject property. Disclosure should be made concerning the existence of any unrecorded lien or other indebtedness which could give rise to any possible security interest in the subject property.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

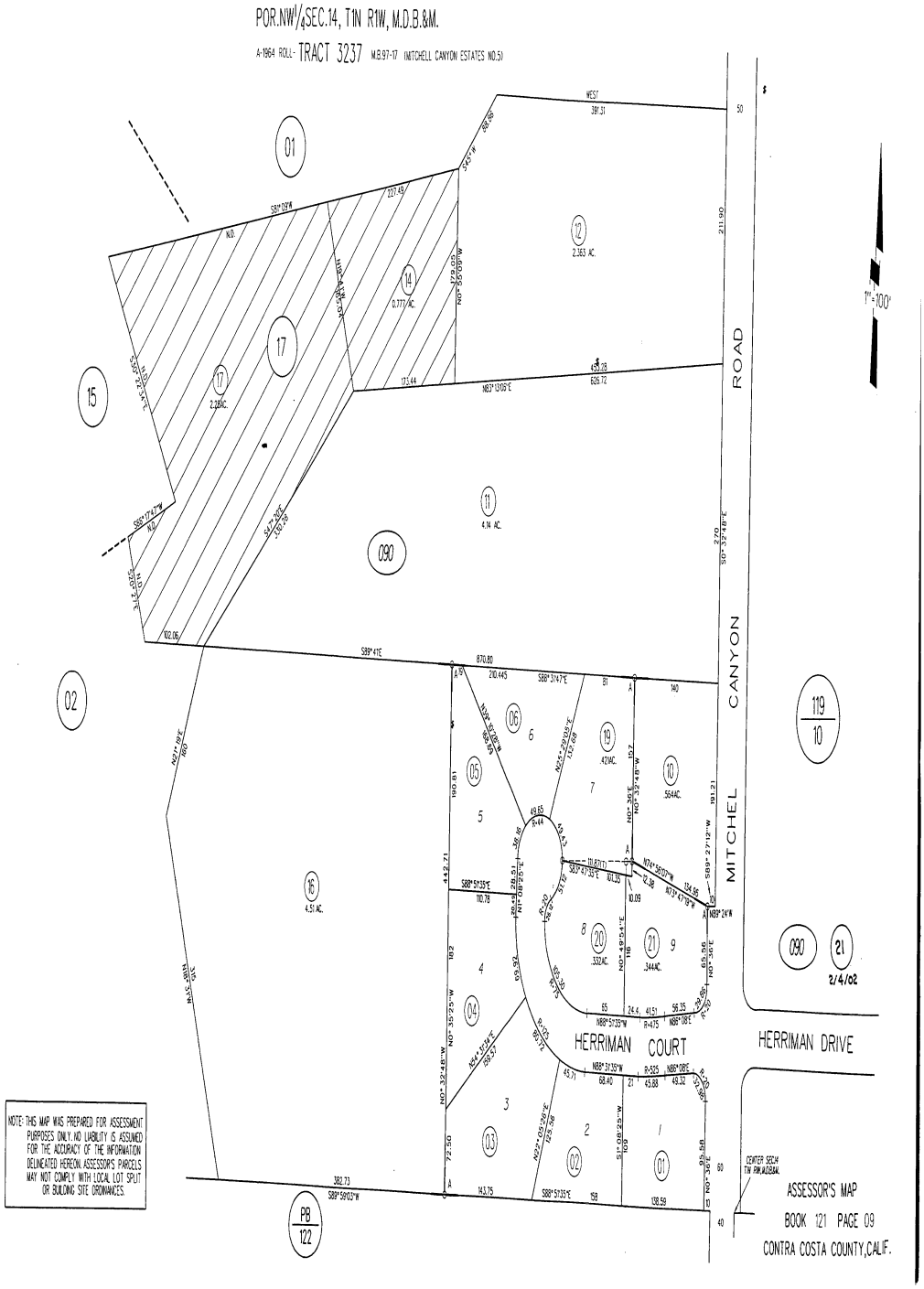
LEGAL DESCRIPTION

Real property in the City of Clayton , County of Contra Costa, State of California, described as follows:

BEING A PART OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 1 NORTH, RANGE 1 WEST, MOUNT DIABLO BASE AND MERIDIAN, AS GRANTED IN THE DEED TO FRED B. CLAYTON AND MARY E. CLAYTON, HIS WIFE, AS JOINT TENANTS, RECORDED AUGUST 13, 1959 IN BOOK 3432, PAGE 393, OFFICIAL RECORDS, CONTRA COSTA COUNTY RECORDS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FROM THE NORTH QUARTER CORNER OF SECTION 14, TOWNSHIP 1 NORTH, RANGE 1 WEST, MOUNT DIABLO BASE AND MERIDIAN, SOUTH 0° 32' 48" EAST, 2,203.10 FEET ALONG THE CENTER SECTION LINE OF SECTION 14; THENCE NORTH 89° 41' WEST, 40.00 FEET TO THE POINT OF BEGINNING; THENCE FROM SAID POINT OF BEGINNING, NORTH 89° 41' WEST, 450.41 FEET; THENCE SOUTH 0° 32' 48" EAST, 445.32 FEET; THENCE SOUTH 89° 59' 03" WEST, 382.73 FEET; THENCE NORTH 18° 31' WEST, 315.00 FEET; THENCE NORTH 21° 19' EAST, 160.00 FEET; THENCE NORTH 47° 20' EAST, 330.28 FEET; THENCE NORTH 86° 13' 06" EAST, 626.72 FEET; THENCE SOUTH 0° 32' 48" EAST 270.00 FEET TO THE POINT OF BEGINNING.

APN: 121-090-011-2 and 121-090-016-1


POR.NW1/4SEC.14, T1N R1W, M.D.B.&M.
A-1964 ROLL- TRACT 3237 M.B.97-17 (MITCHELL CANYON ESTATES NO.5)
MITCHEL CANYON ROAD
HERRIMAN COURT
HERRIMAN DRIVE
1"=100'
NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION DELINEATED HEREON. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT SPLIT OR BUILDING SITE ORDINANCES.
ASSESSOR'S MAP
BOOK 121 PAGE 09
CONTRA COSTA COUNTY, CALIF.
2/4/02

NOTICE

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)

CLTA STANDARD COVERAGE POLICY – 1990

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public, records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the public records at Date of Policy.

CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;

d. improvements on the Land;
e. land division; and
f. environmental protection.
This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.

2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.
   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:
For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.
The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$10,000
Covered Risk 18:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 19:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 21:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$5,000

2006 ALTA LOAN POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

[Except as provided in Schedule B - Part II,[t[or T]his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

[PART I

[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:]

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 or 10); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.

4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
(a) a fraudulent conveyance or fraudulent transfer, or
(b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.
7. [Variable exceptions such as taxes, easements, CC&R's, etc. shown here.]

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

    (i) the occupancy, use, or enjoyment of the Land;
    (ii) the character, dimensions, or location of any improvement erected on the Land;
    (iii) the subdivision of land; or
    (iv) environmental protection;

    or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
    (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the

Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

First American Title™

Privacy Notice

Effective: January 1, 2020

Notice Last Updated: January 1, 2020

This Privacy Notice describes how First American Financial Corporation and its subsidiaries and affiliates (together referred to as "First American," "we," "us," or "our") collect, use, store, and share your information. This Privacy Notice applies to information we receive from you offline only, as well as from third parties. For more information about our privacy practices, please visit https://www.firstam.com/privacy-policy/index.html. The practices described in this Privacy Notice are subject to applicable laws in the places in which we operate.

What Type Of Information Do We Collect About You? We collect both **personal** and **non-personal information** about and from you. **Personal information** is non-public information that can be used to directly or indirectly identify or contact you. **Non-personal information** is any other type of information.

How Do We Collect Your Information? We collect your **personal** and **non-personal information:** (1) directly from you; (2) automatically when you interact with us; and (3) from third parties, including business parties and affiliates.

How Do We Use Your Information? We may use your personal information in a variety of ways, including but not limited to providing the services you have requested, fulfilling your transactions, comply with relevant laws and our policies, and handling a claim. We may use your **non-personal information** for any purpose.

How Do We Share Your Personal Information? We do not sell your **personal information** to nonaffiliated third parties. We will only share your **personal information**, including to subsidiaries, affiliates, and to unaffiliated third parties: (1) with your consent; (2) in a business transfer; (3) to service providers; and (4) for legal process and protection. If you have any questions about how First American shares your **personal information**, you may contact us at dataprivacy@firstam.com or toll free at 1-866-718-0097.

How Do We Secure Your Personal Information? The security of your **personal information** is important to us. That is why we take commercially reasonable steps to make sure your **personal information** is protected. We use our best efforts to maintain commercially reasonable technical, organizational, and physical safeguards, consistent with applicable law, to protect your **personal information**.

How Long Do We Keep Your Personal Information? We keep your **personal information** for as long as necessary in accordance with the purpose for which it was collected, our business needs, and our legal and regulatory obligations.

Your Choices We provide you the ability to exercise certain controls and choices regarding our collection, use, storage, and sharing of your **personal information**. In accordance with applicable law, your controls and choices. You can learn more about your choices, and exercise these controls and choices, by sending an email to dataprivacy@firstam.com or toll free at 1-866-718-0097.

International Jurisdictions: Our Products are hosted and offered in the United States of America (US), and are subject to US federal, state, and local law. If you are accessing the Products from another country, please be advised that you may be transferring your **personal information** to us in the US, and you consent to that transfer and use of your **personal information** in accordance with this Privacy Notice. You also agree to abide by the applicable laws of applicable US federal, state, and local laws concerning your use of the Products, and your agreements with us.

We may change this Privacy Notice from time to time. Any and all changes to this Privacy Notice will be reflected on this page, and where appropriate provided in person or by another electronic method. **YOUR CONTINUED USE, ACCESS, OR INTERACTION WITH OUR PRODUCTS OR YOUR CONTINUED COMMUNICATIONS WITH US AFTER THIS NOTICE HAS BEEN PROVIDED TO YOU WILL REPRESENT THAT YOU HAVE READ AND UNDERSTOOD THIS PRIVACY NOTICE.**

Contact Us dataprivacy@firstam.com or toll free at 1-866-718-0097.

© 2019 First American Financial Corporation and/or its affiliates. All rights reserved. NYSE:FAF

First American Title™

For California Residents

If you are a California resident, you may have certain rights under California law, including but not limited to the California Consumer Privacy Act of 2018 ("CCPA"). All phrases used in this section shall have the same meaning as those phrases are used under California law, including the CCPA.

Right to Know. You have a right to request that we disclose the following information to you: (1) the categories of **personal information** we have collected about or from you; (2) the categories of sources from which the **personal information** was collected; (3) the business or commercial purpose for such collection and/or disclosure of your personal information; (4) the categories of third parties with whom we have shared your **personal information**; and (5) the specific pieces of your **personal information** we have collected. To submit a verified request for this information, go to our online privacy policy at www.firstam.com/privacy-policy to submit your request or call toll-free at 1-866-718-0097. You may also designate an authorized agent to submit a request on your behalf by going to our online privacy policy at www.firstam.com/privacy-policy to submit your request or by calling toll-free at 1-866-718-0097 and submitting written proof of such authorization to dataprivacy@firstam.com.

Right of Deletion. You also have a right to request that we delete the **personal information** we have collected from you. This right is subject to certain exceptions available under the CCPA and other applicable law. To submit a verified request for deletion, go to our online privacy policy at www.firstam.com/privacy-policy to submit your request or call toll-free at 1-866-718-0097. You may also designate an authorized agent to submit a request on your behalf by going to our online privacy policy at www.firstam.com/privacy-policy to submit your request or by calling toll-free at 1-866-718-0097 and submitting written proof of such authorization to dataprivacy@firstam.com.

Verification Process. For either a request to know or delete, we will verify your identity before responding to your request. To verify your identity, we will generally match the identifying information provided in your request with the information we have on file about you. Depending on the sensitivity of the personal information requested, we may also utilize more stringent verification methods to verify your identity, including but not limited to requesting additional information from you and/or requiring you to sign a declaration under penalty of perjury.

Right to Opt-Out. We do not sell your personal information to third parties, and do not plan to do so in the future.

Right of Non-Discrimination. You have a right to exercise your rights under California law, including under the CCPA, without suffering discrimination. Accordingly, First American will not discriminate against you in any way if you choose to exercise your rights under the CCPA.

Collection Notice. The following is a list of the categories of personal information we may have collected about California residents in the twelve months preceding the date this Privacy Notice was last updated, including the business or commercial purpose for said collection, the categories of sources from which we may have collected the personal information, and the categories of third parties with whom we may have shared the personal information:

Categories of Personal Information Collected	The categories of personal information we have collected include, but may not be limited to: real name; signature; alias; SSN; physical characteristics or description, including protected characteristics under federal or state law; address; telephone number; passport number; driver's license number; state identification card number; IP address; policy number; file number; employment history; bank account number; credit card number; debit card number; financial account numbers; commercial information; internet or other electronic network activity; geolocation data; audio and visual information; professional or employment information; and inferences drawn from the above categories to create a profile about a consumer.
Categories of Sources	Categories of sources from which we've collected **personal information** include, but may not be limited to: the consumer directly; public records; governmental entities; non-affiliated third parties; social media networks; affiliated third parties
Business Purpose for Collection	The business purposes for which we've collected **personal information** include, but may not be limited to: completing a transaction for our Products; verifying eligibility for employment; facilitating employment; performing services on behalf of affiliated and non-affiliated third parties; debugging to identify and repair errors that impair existing intended functionality on our Websites, Applications, or Products; protecting against malicious, deceptive, fraudulent, or illegal activity

© 2019 First American Financial Corporation and/or its affiliates. All rights reserved. NYSE:FAF

Categories of Third Parties Shared	The categories of third parties with whom we've shared **personal information** include, but may not be limited to: advertising networks; internet service providers; data analytics providers; service providers; government entities; operating systems and platforms; social media networks; non-affiliated third parties; affiliated third parties

Categories of Personal Information We Have Sold In The Past Year. We have not sold any personal information of California residents to any third party in the twelve months preceding the date this Privacy Notice was last updated.

Categories of Personal Information Disclosed For A Business Purpose In The Past Year. The following is a list of the categories of **personal information** of California residents we may have disclosed for a business purpose in the 12 months preceding the date this Privacy Notice was last updated: The categories of personal information we have collected include, but may not be limited to: real name; signature; alias; SSN; physical characteristics or description, including protected characteristics under federal or state law; address; telephone number; passport number; driver's license number; state identification card number; IP address; policy number; file number; employment history; bank account number; credit card number; debit card number; financial account numbers; commercial information; internet or other electronic network activity; geolocation data; audio and visual information; professional or employment information; and inferences drawn from the above categories to create a profile about a consumer.

© 2019 First American Financial Corporation and/or its affiliates. All rights reserved. NYSE:FAF

Stevens Ferrone & Bailey
Engineering Company, Inc

February 28, 2020

GEOTECHNICAL INVESTIGATION
MITCHELL CANYON DEVELOPMENT
CLAYTON, CALIFORNIA
SFB PROJECT NO. 155-90

Prepared For:

DeNova Homes
1500 Willow Pass Court
Concord, CA 94520

Prepared By:

Stevens, Ferrone & Bailey Engineering Company, Inc.



Jonathan Bailey, P.E., G.E.
Civil/Geotechnical Engineer



Kenneth C. Ferrone, P.E., G.E., C.E.G.
Civil/Geotechnical Engineer
Certified Engineering Geologist





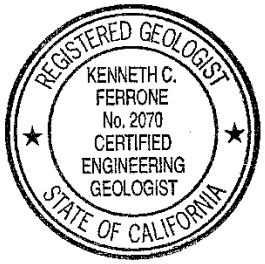


TABLE OF CONTENTS

1.0 INTRODUCTION....1

2.0 SCOPE OF WORK....2

3.0 SITE INVESTIGATION....3

3.1 Site History and Surface Description....3
3.2 Subsurface Description....4
3.3 Groundwater....4
3.4 Hydrologic Soil Group....5
3.5 Geology and Seismicity....5
3.6 Liquefaction....6

4.0 CONCLUSIONS AND RECOMMENDATIONS....7

4.1 Earthwork....9
4.1.1 Clearing and Site Preparation....9
4.1.2 Weak Soil Re-Compaction....10
4.1.3 Subgrade Preparation....10
4.1.4 Fill Material....11
4.1.5 Compaction....11
4.1.6 Engineered Slopes....11
***4.1.6.1 General*....11**
***4.1.6.2 Fill Slopes*....12**
4.1.7 Subsurface Drainage....12
4.1.8 Utility Trench Backfill....13
4.1.9 Exterior Flatwork....13
4.1.10 Construction during Wet Weather Conditions....14
4.1.11 Surface Drainage, Irrigation, and Landscaping....14
4.1.12 Storm Water Runoff Structures....15
4.1.13 Future Maintenance....16
4.1.14 Additional Recommendations....17
4.2 Foundation Support....17
4.2.1 Post-Tensioned Slabs....17
4.2.2 Retaining Walls....19
4.2.3 Seismic Design Criteria....21
4.3 Pavements....22

5.0 CONDITIONS AND LIMITATIONS....24

TABLE OF CONTENTS
(Continued)

FIGURES

1 Site Plan

APPENDICES

A Field Investigation A-1
Figure A-1, Key to Exploratory Boring Logs
Figure A-2, Rock Mass Characteristics
Exploratory Boring Logs (SFB-1 through SFB-5)
Exploratory Pit Logs (TP-1 through TP-5)

B Laboratory Investigation B-1

C Logs of Previous Borings by Others C-1

D ASFE Guidelines D-1

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed residential subdivision development to be located west of Mitchell Canyon Road (APN 121-090-011 & 121-090-016) in Clayton, California as shown on the Site Plan, Figure 1. The purpose of our investigation was to evaluate the geological and geotechnical conditions at the site and provide recommendations regarding the geotechnical engineering aspects of the project.

Based on the information indicated on the Site Plan, as well as information provided by DeNova Homes., it is our understanding that the project will consist of developing approximately 3 acres of land for a new 17-lot residential subdivision. A stormwater detention basin is also proposed. The project will be located to the east of an existing wetland and steep hillside area. Each new lot will include a single-family, detached home. Cut and fill grading is anticipated to develop flat building pad at each of the lots. Moderate grading will be needed to develop the site. Associated underground utilities and paved roadways will be constructed. The existing structures and facilities at the site will be demolished prior to new construction. Open space areas will be located to the west of the development area.

The conclusions and recommendations provided in this report are based upon the information presented above; Stevens, Ferrone & Bailey Engineering Company, Inc. (SFB) should be consulted if any changes to the project occur to assess if the changes affect the validity of this report.

2.0 SCOPE OF WORK

Our investigation of the site included the following scope of work:

- Reviewing published and unpublished geotechnical and geological literature relevant to the site;
- Reviewing a previous geotechnical investigation report by Abel R. Soares and Associates, dated July 13, 1976, including the results of two exploratory borings that extended to a maximum depth of about 6 feet;
- Performing geotechnical and geological reconnaissance of the site and surrounding area;
- Performing a supplemental subsurface exploration program, including drilling five exploratory borings to a maximum depth of about 21 feet and excavating five exploratory test pits to a maximum depth of about 6 feet;
- Performing laboratory testing of samples retrieved from the borings;
- Performing engineering analysis of the field and laboratory data; and
- Preparing this report.

The data obtained and the analyses performed were for the purpose of providing geotechnical design and construction criteria for site earthwork, underground utilities, drainage, building foundations, retaining walls, and pavements. Toxicity potential assessment of onsite materials or groundwater (including mold) and flooding evaluations were beyond our scope of work.

3.0 SITE INVESTIGATION

Reconnaissance of the site and surrounding area was performed on August 14, August 19, and August 26, 2019. Subsurface exploration was performed on August 19 and 26, 2019. Five exploratory borings were drilled using a truck-mounted drill rig equipped with 4-inch diameter, continuous flight, solid stem augers to a maximum depth of about 21 feet below existing grade. Five exploratory test pits were excavated using a CAT 430F2 backhoe to a maximum depth of about 6 feet below existing grade. Previously, two exploratory borings were drilled in 1976 by Abel R. Soares and Associates to a maximum depth of about 6 feet.

The approximate locations of all the borings and pits are shown on the Site Plan, Figure 1. Logs of our borings and pits and details regarding our field investigation are included in Appendix A. The results of our laboratory tests are discussed in Appendix B. Logs of the previous borings by others are included in Appendix C. It should be noted that changes in the surface and subsurface conditions can occur over time as a result of either natural processes or human activity and may affect the validity of the conclusions and recommendations in this report.

The exploratory pits were loosely backfilled and wheel-rolled upon completion. The pit backfill will require over-excavation and re-compaction at the time for the grading operations.

3.1 Site History and Surface Description

At the time of our investigation and as shown on Figure 1, the site was bounded by Mitchell Canyon Road on the east, undeveloped land on the south, and existing residential developments on the other sides.

The entire site was L in shape and had a plan area of about 8.6 acres with maximum dimensions of about 870 feet by 690 feet. General site surface grades sloped gently downward towards the northwest, northeast, and north with slope inclinations varying from about 4:1 (horizontal to vertical) to 6:1 at higher elevations within the southwestern half of the site to about 10:1 to 23:1 at lower elevations with the northeastern half of the site. Ephemeral drainage channels extended through the southwestern half of the site from south to north.

The site was generally vacant except for a small shed and commercial lawnmower located near an existing oak tree at the northwestern corner of the site. The site surface vegetation consisted of a moderate to heavy growth of weeds and grasses and within the drainage channels heavy growths of trees, shrubs, and grasses. Small to large diameter trees were observed throughout the site.

Based on our review of historical topographic maps and aerial photographs of the site and vicinity, it is our understanding that the site was previously occupied by an orchard.

3.2 Subsurface Description

The near-surface soil materials encountered in our borings generally consist of weak surface soils underlain by interbedded stiff to hard silty clays with sand, gravel, and rock fragments, and dense to very dense sands with clay, silt, gravel and rock fragments that extend to the maximum depth explored of about 21 feet. The near-surface soil materials encountered in our test pits generally consisted of soft to stiff clays and silts with sand and gravel and medium dense gravels with silt and sand. SFB Pits P-1 and P-3 encountered sandstone below surface soils. Bedrock encountered in the test pits was generally deeply to moderately weathered and friable to moderately strong. The two previous borings encountered similar conditions to the maximum depth explored of about 6 feet.

According to the results of laboratory testing, most of the near-surface more clayey soils have a low to medium plasticity and low to moderate expansion potential. Pit P-2, however, encountered a near-surface clay layer having high plasticity and high expansion potential. The soft to firm soils that mantle the site are weak and highly compressible; these soils typically extend to depths of about 2 feet except in the area of Pit P-3 (the northeast facing hillside in the southwest corner of the site) where weak and unstable soils extended to a depth of about 4 feet.

We anticipate soft, weak, and highly compressible soils with high water contents exist in the area of the eastern drainage channel. It has been our experience that these softer soils typically extend to depths of about 3 to 4 feet.

Detailed descriptions of the materials encountered in our exploratory borings, test pits, and borings by others are presented on the logs in Appendices A and C. Our attached boring and test pit logs and related information depict location-specific subsurface conditions encountered during our field investigation. The approximate locations of our borings and pits were determined using pacing or landmark references, and should be considered accurate only to the degree implied by the method used.

3.3 Groundwater

Groundwater was encountered in Boring SFB-3 (near the drainage channel) at a depth of about 10 feet at the end of drilling. No groundwater was encountered in the other borings or pits. All our borings were backfilled with lean cement grout in accordance with Contra Costa County requirements prior to leave the site. It should be noted that the borings might not have been left open for a sufficient period of time to establish equilibrium groundwater conditions. In addition,

fluctuations in the groundwater level could occur due to change in seasons, variations in rainfall, and other factors.

3.4 Hydrologic Soil Group

The surface soils of the site have been mapped as Gilroy clay loam (15 to 30 percent slopes, MLRA 15) in the southwest portion of the site, Gilroy clay loam (30 to 50 percent slopes, MLRA 15) in a small portion of the west corner, Los Osos clay loam (15 to 30 percent slopes, MLRA 15) in a small portion of the northwest corner, and Perkins gravelly loam (2 to 9 percent slopes) the rest of the site by USDA Web Soil Survey (WSS)[1]. The soils were assigned to Hydrologic Soil Group C and D by USDA Natural Resources Conservation Service (NRCS); the soils have been categorized as having very low to moderately high transmission rates (approximately 0.00 to 0.57 inches per hour).

Based on our site observations, the soils encountered in our borings, and the results of our laboratory testing, we recommend the near surface soils at the site be categorized as Group D soils. The Group D soils are defined as having a very slow infiltration rate when thoroughly wet (high runoff potential) and consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

3.5 Geology and Seismicity

According to Helley and Graymer (1997)[2], the site is underlain by Plio-Pleistocene undifferentiated continental gravel deposits that are generally composed of semi-consolidated to unconsolidated poorly sorted gravel, sand, silt and clay. According to Graymer, Jones, and Brabb (1994)[3], the site (below surficial deposits) is underlain by Jurassic Diabase and Late Jurassic to early Cretaceous Knoxville Formation. The bedrock encountered by Pits P-1 and P-3 appeared to be sandstone of the Knoxville Formation. Our engineering geology map for the site is shown on Figure 1.

The project site is located in the San Francisco Bay Area that is considered one of the most seismically active regions in the United States. Significant earthquakes have occurred in the San Francisco Bay Area and are believed to be associated with crustal movements along a system of

---

[1]http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm (accessed 08/21/19)

[2]Helley and Graymer, 1997, *Quaternary Geology of Contra Costa County, and Surrounding Parts of Alameda, Marin, Sonoma, Solano, Sacramento, and San Joaquin Counties, California: A Digital Database,* USGS Open-file Report 97-98.

[3]Graymer, Jones, and Brabb, 1994, *Preliminary Geologic Map Emphasizing Bedrock Formations in Contra Costa County, California: A Digital Database,* USGS Open-file Report 94-622.

sub-parallel fault zones that generally trend in a northwesterly direction. According to the Alquist-Priolo Earthquake Fault Zones Map of the Clayton Quadrangle, the site is not located in an earthquake fault zone as designated by the State of California[4].

Earthquake intensities will vary throughout the San Francisco Bay Area, depending upon numerous factors including the magnitude of earthquake, the distance of the site from the causative fault, and the type of materials underlying the site. The U.S. Geological Survey (2016)[5] has stated that there is a 72 percent chance of at least one magnitude 6.7 or greater earthquake striking the San Francisco Bay region between 2014 and 2043. Therefore, the site will probably be subjected to at least one moderate to severe earthquake that will cause strong ground shaking.

According to the U.S. Geological Survey 's Unified Hazard Tool and applying the Dynamic: Conterminous U.S. 2008 (v3.3.2) model (accessed 08/21/19), the resulting deaggregation calculations indicate that the site has a 10% probability of exceeding a peak ground acceleration of about 0.57g in 50 years (design basis ground motion based on stiff soil to very dense soil and soft rock site condition; mean return time of 475 years). The actual ground surface acceleration might vary depending upon the local seismic characteristics of the underlying bedrock and the overlying unconsolidated soils.

3.6 Liquefaction

Soil liquefaction is a phenomenon primarily associated with saturated, cohesionless, soil layers located close to the ground surface. These soils lose strength during cyclic loading, such as imposed by earthquakes. During the loss of strength, the soil acquires mobility sufficient to permit both horizontal and vertical movements. Soils that are most susceptible to liquefaction are clean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. According to ABAG and the U.S. Geological Survey[6,7], the site is located in an area that has been characterized as having very low to low liquefaction susceptibility. As of the date of this report, the liquefaction potential of the site has not been evaluated by the State of California[8].

Based on our review of available literature and the results of field explorations at the site, it is our opinion that the potential for ground surface damage at the site resulting from liquefaction is low.

---

[4]State of California, *Special Studies Zones, Clayton Quadrangle*, Revised Official Map, Effective: July 1, 1993.
[5]Aagaard, Blair, Boatwright, Garcia, Harris, Michael, Schwartz, and DiLeo, *Earthquake Outlook for the San Francisco Bay Region 2014–2043*, USGS Fact Sheet 2016–3020, Revised August 2016 (ver. 1.1).
[6]Witter, Knudsen, Sowers, Wentworth, Koehler, and Randolph, 2006, *Maps of Quaternary Deposits and Liquefaction Susceptibility in the Central San Francisco Bay Region, California*", USGS Open File Report 2006-1037.
[7]Knudsen, Sowers, Witter, Wentworth, and Helly, 2000, *Preliminary Maps of Quaternary Deposits and Liquefaction Susceptibility, Nine-County San Francisco Bay Region, California*, USGS Open File Report 00-444.
[8]Seismic Hazards Mapping Act, 1990.

4.0 CONCLUSIONS AND RECOMMENDATIONS

It is our opinion that the site is suitable for the proposed project from a geotechnical engineering standpoint. The conclusions and recommendations presented in this report should be incorporated in the design and construction of the project to reduce soil or foundation related issues. The following are the primary geotechnical considerations for development of the site.

WEAK SOIL RE-COMPACTION: Weak and highly compressible soils mantle the development area of the site to depths of about 2 feet. In order to provide support of the planned improvements (such as fills, foundations, roadways, driveways, etc.), we recommend over-excavating the existing site grades about 1 foot, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. There would be no need to over-excavate soils within areas that do not support improvements, such as in planned open spaces beyond the limits of the lots. Where the over-excavation limits abut adjacent property, SFB should be consulted to determine the actual vertical and lateral extent of over-excavation so that adjacent property is not adversely impacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness will occur below the proposed building foundations. Removed soil can be used as new fill provided it is placed and compacted in accordance with the recommendations presented in this report.

The extent of the removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

The exploratory pits were loosely backfilled and wheel-rolled upon completion. The backfill will require over-excavation and re-compaction at the time for the grading operations.

EXPANSION POTENTIAL: Most of the clayey surficial soils were found to be moderately expansive and will be subjected to volume changes during seasonal moisture content fluctuations. To reduce the potential for post-construction distress to the proposed structure resulting from shrinkage and swelling of these materials, we recommend that the proposed structure be supported on a post-tensioned slab foundation system that is designed to reduce the impact of the expansive soils. It should be noted that special design considerations will also be required for exterior slabs.

The clayey soils encountered in Pit P-2 are highly expansive and can cause distress to overlying improvements when subjected to changes in moisture content. We recommend these highly expansive clays either (1) be completely over-excavated and mixed into planned fill materials or (2) be capped with at least 3 feet of engineered fill whose source is from elsewhere onsite. If alternative (1) is used, SFB should observe the over-excavation and mixing process so that the highly expansive clays are not placed in any one localized area.

CUT/FILL TRANSITIONS AND DIFFERENTIAL FILL THICKNESS: Proposed grading may result in cut/fill transitions across building pads and differential fill thickness greater than 5 feet below building foundations. In order to reduce the potential for excessive differential movement across the proposed home foundations, we recommend that foundations bear entirely on an engineered fill layer and that no more than 5 feet of differential fill thickness exist below foundations. Over-excavation and re-compaction below foundations will likely be necessary in some lots to satisfy this criterion.

EROSION AND SLOPE MAINTENANCE: Drainage and erosion control measures should be maintained during and after construction. Short-term and long-term erosion control are critical for the stability of any exposed cut and fill slopes, and may be necessary for the natural slopes in order to reduce sediment accumulation in the drainage systems. We recommend all exposed cut and fill slopes be seeded or planted with appropriately designed erosion resistant vegetation and fertilizer. The vegetation should be appropriately irrigated in order to establish and maintain growth. Over-watering should be avoided in order to reduce surficial instability and erosion. Vegetation should be deeply rooted to aid in the interlocking of the near-surface soils. Additional seeding and planting may be necessary in localized areas if the initial seeding or planting is unsuccessful. After seeding, fertilizing, and planting, staked erosion control blankets might be necessary to further stabilize the surficial soils.

Additional erosion control measures will need to be designed and implemented prior to the rainy season based upon the site's configuration. The measures could include straw wattles, silt fencing, hay bales, sediment collection basins, and filtration systems. Silt fencing should be designed for the site's soil type. Storm water discharge and release points from silt fencing should be designed to reduce erosion. In areas exposed to winter rains, we recommend an erosion control plan be prepared and implemented at least one month prior to the beginning of the rainy season. The erosion control measures will require inspection, modification, and re-mediation during the rainy season in order to comply with regulatory requirements.

CORROSION POTENTIAL: Four onsite soil sample was tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in Appendix B. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors so that they can design and install corrosion protection measures. Please be aware that we are not corrosion protection experts; we recommend corrosion protection measures be designed and constructed so that all concrete and metal, including foundation post-tensioned cables and their end cut-offs, are protected against corrosion. We also recommend additional testing be performed

if the test results are deemed insufficient by the designers and installers of the corrosion protection. Landscaping soils typically contain fertilizers and other chemicals than can be highly corrosive to metals and concrete; landscaping soils commonly are in contact with foundations. Consideration should be given to testing the corrosion potential characteristics of proposed landscaping soils and other types of imported or modified soils in order to design and provide protection against corrosion for the foundation and pipelines.

ADDITIONAL RECOMMENDATIONS: Detailed drainage, earthwork, foundation, retaining wall, and pavement recommendations for use in design and construction of the project are presented below. We recommend SFB review the design and specifications to verify that the recommendations presented in this report have been properly interpreted and implemented in the design, plans, and specifications. We also recommend SFB be retained to provide consulting services and to perform construction observation and testing services during the construction phase of the project to observe and test the implementation of our recommendations, and to provide supplemental or revised recommendations in the event conditions different than those described in this report are encountered. We are not responsible for misinterpretation of our recommendations.

It is the responsibility of the contractors to provide safe working conditions at the site at all times. We recommend all OSHA regulations be followed, and excavation safety be ensured at all times. It is beyond our scope of work to provide excavation safety designs.

4.1 Earthwork

4.1.1 Clearing and Site Preparation

The site should be cleared of all obstructions including any existing structures and their entire foundation systems, existing utilities and pipelines and their associated backfill, designated trees and their associated entire root systems, and debris. Holes resulting from the removal of underground obstructions extending below the proposed finish grade should be cleared and backfilled with fill materials as specified in **Section 4.1.4, *Fill Material***, and compacted to the requirements in **Section 4.1.5, *Compaction***. Tree roots may extend to depths of about 3 to 4 feet. Wells and septic systems, if they exist, should be abandoned in accordance with Contra Costa County standards.

From a geotechnical standpoint, any existing trench backfill materials, clay or concrete pipes, pavements, and concrete that are removed can be used as new fill onsite provided debris is removed and it is broken up to meet the size requirement for fill material in **Section 4.1.4, *Fill Material***. We recommend fill materials composed of broken up concrete or asphalt concrete not be located

within 3 feet of the ground surface in yard areas. Consideration should be given to placing these materials below pavements, directly under building footprints, or in deeper excavations. We recommend backfilling operations for any excavations be performed under the observation and testing of SFB.

At least two weeks prior to grading, areas containing surface vegetation should be mowed and the cut grasses and weeds removed from the site or stockpiled for use in landscaping. After mowing, the site should be disced or stripped. Portions of the site containing heavy surface vegetation that is not removed by discing should be stripped to an appropriate depth to remove these materials. The amount of actual stripping should be determined in the field by SFB at the time of construction. Stripped materials should be removed from the site or stockpiled for later use in landscaping, if desired.

4.1.2 Weak Soil Re-Compaction

As described previously, the upper two feet of the surface soils are generally loose, weak, and potentially compressible. In order to reduce the potential for damaging differential settlement of overlying improvements (such as new fills, building foundations, exterior flatwork, and pavements), we recommend these weak soil materials be completely removed and re-compacted.

We estimate the process can consist of over-excavating the existing surface grade 1 foot, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. There would be no need to over-excavate soils within areas that do not support improvements, such as within planned open spaces.

Where the over-excavation limits abut adjacent property, SFB should be consulted to determine the actual vertical and lateral extent of over-excavation so that adjacent property is not adversely impacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness exists below the proposed building foundations. The extent of the removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

Removed fill and soil materials may be used as new fill onsite provided it satisfies the recommendations provided in **Section 4.1.4, *Fill Material***. Compaction should be performed in accordance with the recommendations in **Section 4.1.5, *Compaction***.

4.1.3 Subgrade Preparation

After the completion of clearing, site preparation, and weak soil re-compaction, soil exposed in areas to receive improvements (such as structural fill, building foundations, driveways, exterior flatwork, and pavements) should be scarified to a depth of about 12 inches, moisture conditioned

to approximately 2 to 3 percent over optimum water content, and compacted to the requirements for structural fill.

If building pads or pavement subgrade are allowed to remain exposed to sun, wind, or rain for an extended period of time, or are disturbed by borrowing animals or vehicles, the exposed subgrade or pavement subgrade may need to be reconditioned (moisture conditioned and/or scarified and recompacted) prior to foundation or pavement construction. SFB should be consulted on the need for subgrade reconditioning when the subgrade is left exposed for extended periods of time.

4.1.4 Fill Material

From a geotechnical and mechanical standpoint, onsite soils having an organic content of less than 3 percent by volume can be used as fill. Fill should not contain rocks or lumps larger than 6 inches in greatest dimension with not more than 15 percent larger than 2.5 inches. If required, imported fill should have a plasticity index of 15 or less and have a significant amount of cohesive fines.

In addition to the mechanical properties specifications, all imported fill material should have a resistivity (100% saturated) no less than the resistivity for the onsite soils, a pH of between approximately 6.0 and 8.5, a total water soluble chloride concentration less than 300 ppm, and a total water soluble sulfate concentration less than 500 ppm. We recommend import samples be submitted for corrosion and geotechnical testing at least two weeks prior to being brought onsite.

4.1.5 Compaction

Within the upper 5 feet of the finished ground surface, we recommend structural fill be compacted to at least 90 percent relative compaction, and structural fill below a depth of 5 feet be compacted to at least 95 percent relative compaction, as determined by ASTM D1557 (latest edition). We recommend the new fill be moisture conditioned approximately 2 to 3 percent over optimum water content. The upper 6 inches of subgrade soils beneath pavements should be compacted to at least 95 percent relative compaction. Fill material should be spread and compacted in lifts not exceeding approximately 8 to 12 inches in un-compacted thickness.

4.1.6 Engineered Slopes

4.1.6.1 General

We recommend cut and non-reinforced fill slopes not exceed an inclination of 2:1 (horizontal to vertical). Steeper fill slopes are feasible provided they are mechanically reinforced with geogrid; if requested, SFB can provide detailed designs of slope reinforcing if needed. We recommend all cut and fill slopes be constructed with surface drainage collection and discharge facilities. Shallow slope movements such as surficial sloughing, toppling, and flows, however, could still occur as a

result of erosion and unanticipated water infiltration. To decrease the potential for shallow slope movement, the drainage and erosion control recommendations presented in this report should be implemented in the design and construction of the site. The implemented drainage and erosion control measures should be maintained during and after construction. Slope benches should be constructed in accordance with the latest edition of the California Building Code. Slope maintenance may include re-establishing drainage patterns, controlling water infiltration, and repairing shallow slope movements.

4.1.6.2 Fill Slopes

We recommend fill slopes be built using well-mixed, moisture conditioned, and well blended engineered fill to reduce the potential for slope expansion and creeping. We also recommend that fill slopes be over-built approximately 2 feet horizontally and then trimmed back to finished grades. Where fills are placed on slopes steeper than 10:1 (horizontal to vertical), the fills should be keyed at least 5 feet into competent native soils or at least 3 feet into competent bedrock. Keyways should be at least 10 feet wide and a subdrain should be placed at the bottom and to the rear of each keyway. The keyway should be sloped toward the back of the key at 2 percent or steeper. A subgrade bench and subdrain should be provided for approximately every 10 feet of vertical elevation gain, and the bench should extend at least one foot into competent soils or bedrock. Subdrain construction is described in **Section 4.1.7, *Subsurface Drainage***. The actual extent of the keying, benching, and subdrainage should be determined by SFB during earthwork operations. SFB should also be consulted during the development of grading plans to estimate locations of keyways and subdrains.

4.1.7 Subsurface Drainage

In order to reduce the potential for subsurface water created issues, we recommend subdrains be installed below engineered fill placed on slopes, at the toe of slopes, and where open space areas direct water toward improvements. During the earthwork operations, additional subdrains may be necessary in areas of encountered or anticipated seepage on the slopes. We recommend a subdrain be located below lined ditches or earthen swales that collect surface water from open space areas; the purpose of the subdrain is to intercept water that can flow under ditches and cause damage and distress. The actual location and extent of subdrains should be assessed by SFB during the development of the grading and improvement plans and determined in the field by SFB at the time of construction.

Where used, subdrains should consist of 4-inch diameter, rigid perforated pipe (perforations down) surrounded by free draining, uniformly graded, 1/2 to 3/4-inch crushed gravel wrapped in filter fabric such as Mirafi 140N or equivalent. The pipe should be underlain by about 1/2 to 1 inch of the gravel, and on the sides by at least 4 inches of gravel. The filter fabric should overlap approximately 12 inches or more at joints. Subdrains should be connected to a solid, rigid,

collector pipe with a minimum diameter of 4 inches. Subdrain pipes can consist of rigid ABS (SDR-35) or PVC A-2000 (or equal) for fills less than 20 feet in height. Collector pipes should be connected to appropriate discharge facilities such as storm drains, drainage inlets, or storm drain manholes. Subdrain clean-outs should be provided. The clean-out locations should be based upon the reach of the rotary cleaning systems and the restrictions of pipe bends. Caltrans Class 2 permeable material may be used in lieu of gravel and filter fabric.

Where used, subdrain trenches should be at least 12 inches wide and about 4 feet deep below adjacent ground surface. If a subdrain trench extends to the ground surface and is not covered with concrete lined ditch or concrete flatwork, we recommend the subdrain trench be covered with a 12-inch thick cap consisting of native soil compacted to at least 90 percent relative compaction.

4.1.8 Utility Trench Backfill

Pipeline trenches should be backfilled with fill placed in lifts of approximately 8 inches in uncompacted thickness. Thicker lifts can be used provided the method of compaction is approved by SFB and the required minimum degree of compaction is achieved. Backfill should be placed by mechanical means only. Jetting is not permitted.

Onsite trench backfill should be compacted to at least 90 percent relative compaction. Imported sand trench backfill should be compacted to at least 95 percent relative compaction and sufficient water is added during backfilling operations to prevent the soil from "bulking" during compaction. The upper 3 feet of trench backfill in foundation, slab, and pavement areas should be entirely compacted to at least 95 percent relative compaction. To reduce piping and settlement of overlying improvements, we recommend rock bedding and rock backfill (if used) be completely surrounded by a filter fabric such as Mirafi 140N (or equivalent); alternatively, filter fabric would not be necessary if Caltrans Class 2 permeable material is used in lieu of rock bedding and rock backfill.

Sand or gravel backfilled trench laterals that extend toward driveways, exterior slabs-on-grade, or under the building foundations, and are located below irrigated landscaped areas such as lawns or planting strips, should be plugged with onsite clays, low strength concrete, or sand/cement slurry. The plug for the trench lateral should be located below the edge of pavement or slabs, and under the perimeter of the foundation. The plug should be at least 24 inches thick, extend the entire width of the trench, and extend from the bottom of the trench to the top of the sand or gravel backfill.

4.1.9 Exterior Flatwork

We recommend that exterior slabs (including patios, sidewalks, and driveways) be placed directly on the properly compacted fills. We do not recommend using aggregate base, gravel, or crushed rock below these improvements. If imported granular materials are placed below these elements,

subsurface water can seep through the granular materials and cause the underlying soils to saturate or pipe. Prior to placing concrete, subgrade soils should be moisture conditioned to increase their moisture content to approximately 2 to 3 percent above laboratory optimum moisture (ASTM D-1557).

The more expansive clayey soils at the site could be subjected to volume changes during fluctuations in moisture content. As a result of these volume changes, some vertical movement of exterior slabs (such as driveways, sidewalks, patios, exterior flatwork, etc.) should be anticipated. This movement could result in damage to the exterior slabs and might require periodic maintenance or replacement. Adequate clearance should be provided between the exterior slabs and building elements that overhang these slabs, such as window sills or doors that open outward.

We recommend reinforcing exterior slabs with steel bars in lieu of wire mesh. To reduce potential crack formation, the installation of #4 bars spaced at approximately 24 inches on center in both directions should be installed. Score joints and expansion joints should be used to control cracking and allow for expansion and contraction of the concrete slabs. We recommend appropriate flexible, relatively impermeable fillers be used at all cold/expansion joints. The installation of dowels at all expansion and cold joints will reduce differential slab movements; the dowels should be at least 30 inches long and should be spaced at a maximum lateral spacing of 24 inches. Although exterior slabs that are adequately reinforced will still crack, trip hazards requiring replacement of the slabs will be reduced if the slabs are properly reinforced.

4.1.10 Construction during Wet Weather Conditions

If construction proceeds during or shortly after wet weather conditions, the moisture content of the onsite soils could be significantly above optimum. Consequently, subgrade preparation, placement and/or reworking of onsite soil or fills as structural fill might not be possible. Alternative wet weather construction recommendations can be provided by our representative in the field at the time of construction, if appropriate. All the drainage measures recommended in this report should be implemented and maintained during and after construction, especially during wet weather conditions.

4.1.11 Surface Drainage, Irrigation, and Landscaping

Ponding of surface water must not be allowed on pavements, adjacent to foundations, at the top or bottom of slopes, and at the top or adjacent to catchment and retaining walls. Ponding of water should also not be allowed on the ground surface adjacent to or near exterior slabs, including driveways, walkways, and patios. Surface water should not be allowed to flow over the top of slopes, down slope faces, or over catchment and retaining walls.

We recommend positive surface gradients of at least 2 percent be provided adjacent to foundations to direct surface water away from the foundations and toward suitable discharge facilities. Roof downspouts and landscaping drainage inlets should be connected to solid pipes that discharge the collected water into appropriate water collection facilities. We recommend the surface drainage be designed in accordance with the latest edition of the California Building Code.

In order to reduce differential foundation movements, landscaping (where used) should be placed uniformly adjacent to the foundation and exterior slabs. We recommend trees be no closer to the structure or exterior slabs than half the mature height of the tree; in no case should tree roots be allowed to extend near or below the foundations or exterior slabs.

Drainage inlets should be provided within enclosed planter areas and the collected water should be discharged onto pavement, into drainage swales, or into storm water collection systems. In order to reduce the potential for heaving, consideration should be given to lining planting areas and collecting the accumulated surface water in subdrain pipes that discharge to appropriate collection facilities. The drainage should be designed and constructed so that the moisture content of the soils surrounding the foundations do not become elevated and no ponding of water occurs. The inlets should be kept free of debris and be lower in elevation than the adjacent ground surface.

We recommend regular maintenance of the drainage systems be performed, including maintenance prior to rainstorms. The inspection should include checking drainage patterns to make sure they are performing properly, making sure drainage systems and inlets are functional and not clogged, and checking that erosion control measures are adequate for anticipated storm events. Immediate repairs should be performed if any of these measures appears to be inadequate.

Irrigation should be performed in a uniform, systematic manner as equally as possible on all sides of the foundations and exterior slabs to maintain moist soil conditions. Over-watering must be avoided. To reduce moisture changes in the natural soils and fills in landscaped areas, we recommend that drought resistant plants and low flow watering systems be used. All irrigation systems should be regularly inspected for leakage.

4.1.12 Storm Water Runoff Structures

To satisfy local and state permit requirements, most new development projects must control pollutant sources and reduce, detain, retain, and/or treat specified amounts of storm water runoff. The intent of these types of improvements is to conserve and incorporate on-site natural features, together with constructed hydrologic controls, to more closely mimic pre-development hydrology and watershed processes.

We recommend storm water collection improvements that are designed to detain, retain, and/or treat water such as bio-swales, porous pavement structures, and water detention basins, be lined with a relatively impermeable membrane in order to reduce water seepage and the potential for damage and distress to other infrastructure improvements (such as pavements, foundations, and walkways) which can occur as a result of volumetric soil/fill changes (heaving and shrinking of the surrounding soil/fill). We recommend a relatively impermeable membrane such as STEGO Wrap 15-mil or equivalent be installed below and along the sides of these facilities that direct the collected water into subdrain pipes. The membrane should be lapped and sealed in accordance with the manufacture's specifications, including taping joints where pipes penetrate the membrane. A subdrain pipe should be used at the base of the infiltration materials to collect accumulated water and transmit the water to an appropriate facility.

Soil filter materials within basins and swales will consolidate over time causing long-term ground surface settlement. Additional filling within the basins and swales over time will be needed to maintain design surface elevations. The soil filter materials, infiltration testing and procedures, and associated compaction requirements should be specified by the Civil Engineer and shown in detail on the grading and improvement plans.

Sidewalls of earthen swales and basins steeper than 3:1 (horizontal to vertical) will experience downward and lateral movements that can cause significant ground surface movements, including movement of adjacent improvements such as foundations, utilities, pavements, driveways, walkways, and curbs and gutters. The magnitude and rate of movement depends upon the swale and basin backfill material type and compaction. To reduce the potential for damaging movements, we recommend 3:1 sidewall slopes be used for earthen swales and basins, sidewalks be setback at least 3 feet from the top of the slope, creep sensitive improvements (such as roadway curbs) be setback at least 5 feet from the top of the slopes, or the slopes/sidewalls be appropriately restrained using an engineered retaining system, such as deepened curbs and foundations that are designed to resist lateral earth pressures and act as a retaining wall.

SFB should be consulted regarding the use, locations, and design of storm water detention and filtration facilities. We also recommend SFB observe and document the installation of liners, subdrain pipes, and soil filter materials during construction for conformance to the recommendations in this report and the development's plans and specifications.

4.1.13 Future Maintenance

In order to reduce water related issues, we recommend regular maintenance of the site and each lot be performed, including maintenance prior to rainstorms. Maintenance should include the re-compaction of loosened soils, collapsing and infilling holes with compacted soils or low strength sand/cement grout, removal and control of digging animals, modifying storm water drainage

patterns to allow for sheet flow into drainage inlets or ditches rather than concentrated flow or ponding, removal of debris within drainage ditches and inlets, and immediately repairing any erosion or soil flow. The inspection should include checking drainage patterns, making sure drainage systems are functional and not clogged, and erosion control measures are adequate for anticipated storm events. Immediate repair should be performed if any of these measures appear to be inadequate. Temporary and permanent erosion and sediment control measures should be installed over any exposed soils immediately after repairs are made.

Differential movement of exterior slabs can occur over time as a result of numerous factors. We recommend homeowners, the HOA, and development owners perform inspections and maintenance of slabs, including infilling significant cracks, providing fillers at slab offsets, and replacing slabs if severely damaged.

4.1.14 Additional Recommendations

We recommend that drainage, irrigation, landscaping, and maintenance recommendations provided in this report be forwarded to your designers and contractors, and we recommend they be included in disclosure statements given to homeowners, development owners, and their maintenance associations.

4.2 Foundation Support

4.2.1 Post-Tensioned Slabs

The proposed residential buildings can be supported on a post-tensioned slab foundation that is designed for the expansion potential of onsite soils. The slab foundation should bear entirely on properly prepared, compacted structural fill. Prior to the concrete pour, we recommend the moisture content of the pad subgrade materials be approximately 2 to 3 percent above laboratory optimum moisture. If the building pads are left exposed for an extended period of time prior to constructing foundations, we recommend SFB be contacted for recommendations to re-condition pads in order provide adequate building support.

The post-tensioned slab thickness should be determined by the Structural Engineer, however we recommend the post-tensioned slabs be at least 10 inches thick. An allowable bearing pressure of 1,500 pounds per square foot can be used for localized point and line loads. Deflection of the slab foundations should not exceed the values recommended in the most recent PTI Manual. Lateral loads, such as derived from earthquakes and wind, can be resisted by friction between the post-tensioned slab foundation bottom and the supporting subgrade. A friction coefficient of 0.25 is considered applicable.

At least 10 feet of cover should be provided between the outer face of slabs and un-retained slope faces, as measured laterally between slope faces and the slabs. Where less than 10 feet of cover exists, deepening of the edge of slabs may be necessary in order to achieve 10 feet of cover for buildings located near tops of slopes. Where slabs are located adjacent to utility trenches, the slab bearing surface should bear below an imaginary 1 horizontal to 1 vertical plane extending upward from the bottom edge of the adjacent utility trench. Alternatively, the slab reinforcing could be increased to span the area defined above assuming no soil support is provided.

A vapor retarder must be placed between subgrade soils and the bottom of the slabs-on-grade. We recommend the vapor retarder consist of a single layer of Stego Wrap Vapor Barrier 15 mil Class A or equivalent provided the equivalent satisfies the following criteria: a permeance as tested before and after mandatory conditioning of less than 0.01 Perms and strength of Class A as determined by ASTM E 1745 (latest edition), and a thickness of at least 15 mils. Installation of the vapor retarder should conform to the latest edition of ASTM E 1643 (latest edition) and the manufacturers requirements, including all joints should be lapped at least 6 inches and sealed with Stego Tape or equal in accordance with the manufacturer's specifications. Protrusions where pipes or conduit penetrate the membranes should be sealed with either one or a combination of Stego Tape, Stego Mastic, Stego Pipe Boots, or a product of equal quality as determined by the manufacturer's instructions and ASTM E 1643. Care must be taken to protect the membrane from tears and punctures during construction. We do not recommend placing sand or gravel over the membrane.

Concrete slabs retain moisture and often take many months to dry; construction water added during the concrete pour further increases the curing time. If the slabs are not allowed to completely cure prior to constructing the super-structure, the concrete slabs will expel water vapor and the vapor will be trapped under impermeable flooring. The concrete mix design for the slabs should have a maximum water/cement ratio of 0.45; the actual water/cement ratio may need to be reduced if the concentration of soluble sulfates or chlorides in the supporting subgrade is detrimental to the concrete. The results of sulfate and chloride testing of four onsite soil samples are included under separate cover. We recommend you consult with your concrete slab designers and concrete contractors regarding methods to reduce the potential for differential concrete curing.

An experienced Structural Engineer should design the post-tensioned slabs to resist the differential soil movement. The preliminary soil design parameters presented below were generated using the procedures presented in the Post-Tensioning Institute (PTI) design manual and PTI published specifications, and the PTI preferred computer program VOLFLO was employed to simulate the wetting and drying scenarios of the soils beneath the post-tensioned slabs.

The values provided below are based upon the post-tensioned slab foundations being entirely surrounded by uniform, properly drained, moderately irrigated landscaping; if differing conditions

exist that will cause differential soil moisture adjacent or below the slabs, or if portions of the foundations will be located adjacent to relatively dry or wet soils, then we should be consulted and modifications to the values below would need to be modified in writing. Please refer to **Section 4.1.11, *Surface Drainage, Irrigation, and Landscaping***, for additional recommendations. We recommend that slab-subgrade friction values provided in the most recent PTI Manual be used in order to determine the friction that might be expected to exist during tendon stressing.

SWELLING MODE

	Center Lift	Edge Lift
Edge Moisture Variation Distance (e_m)	9.0 feet	5.0 feet
Differential Soil Movement (y_m)	0.5 inch	1.0 inch

We recommend SFB review the foundation drawings and specifications prior to submittal to verify that the recommendations provided in this report have been used and properly interpreted in the design of the slabs.

4.2.2 Retaining Walls

If segmental block walls with geogrid will be used at the site, SFB should be contacted to provide block wall and geogrid designs and specifications.

Where walls retain soil, they must be designed to resist both lateral earth pressures and any additional lateral loads caused by surcharging such as building and roadway loads. Where walls are used to retain soil, we recommend unrestrained walls (walls free to deflect and disconnected from other structures) be designed to resist an equivalent fluid pressure of 40 pounds per cubic foot. This assumes a level backfill. Restrained walls (walls restrained from deflection) should be designed to resist an equivalent fluid pressure of 40 pounds per cubic foot plus a uniform pressure of 8H pounds per square foot, where H is the height of the wall in feet. Walls with inclined backfill should be designed for an additional equivalent fluid pressure of 1 pound per cubic foot for every 2 degrees of slope inclination. Walls subjected to surcharge loads should be designed for an additional uniform lateral pressure equal to one-third and one-half the anticipated surcharge load for unrestrained and restrained walls, respectively. These lateral pressures depend upon the moisture content of the retained soils to be constant over time; if the moisture content of the retained soils will fluctuate or increase compared to the moisture content at time of construction, then SFB should be consulted and provide written modifications to this design criteria.

For retaining walls that need to resist earthquake induced lateral loads from nearby foundations, walls that are to be designed to resist earthquake loads, and any retaining walls that are higher than

6 feet (as required by the 2016 CBC), we recommend the walls also be designed to resist a triangular pressure distribution equal to an equivalent fluid pressure of 30 pounds per cubic foot based on the ground acceleration from a design basis earthquake. This seismic induced earth pressure is in addition to the pressures noted above. Due to the transient nature of the seismic loading, a factor of safety of at least 1.0 can be used in the design of the walls when they resist seismic lateral loads. Some movement of the walls may occur during moderate to strong earthquake shaking and may result in distress as is typical for all structures subjected to earthquake shaking.

The recommended lateral pressures assume walls are fully-back drained to prevent the build-up of hydrostatic pressures. This can be accomplished by using ½ to ¾ inch crushed, uniformly graded gravel entirely wrapped in filter fabric such as Mirafi 140N or equal (an overlap of at least 12 inches should be provided at all fabric joints). The gravel and fabric should be at least 8 inches wide and extend from the base of the wall to within 12 inches of the finished grade at the top (Caltrans Class 2 permeable material (Section 68) may be used in lieu of gravel and filter fabric). A 4-inch diameter, perforated pipe should be installed at the base and centered within the gravel. The perforated pipe should be connected to a solid collector pipe that transmits the water directly to a storm drain, drainage inlet, or onto pavement. If weep holes are used in the wall, the perforated pipe within the gravel is not necessary provided the weep holes are kept free of animals and debris, are located no higher than approximately 6 inches from the lowest adjacent grade, and are able to function properly. As an alternative to using gravel, drainage panels (such as AWD SITEDRAIN Sheet 94 for walls or equal) may be used behind the walls in conjunction with perforated pipe (connected to solid collector pipe), weep holes, or strip drains (such as SITEDRAIN Strip 6000 or equal). If used, the drainage panels can be spaced on-center at approximately 2 times the panel width.

If heavy compaction equipment is used behind the walls, the walls should be appropriately designed to withstand loads exerted by the heavy equipment and/or temporarily braced. Fill placed behind walls should conform to the recommendations provided in **Section 4.1.4, *Fill Material***, and **Section 4.1.5, *Compaction***.

Retaining walls can be supported on drilled, cast-in-place, straight shaft friction piers that develop their load carrying capacity in the materials underlying the site. The piers should have a minimum diameter of 12 inches and a center-to-center spacing of at least three times the shaft diameter. We recommend that piers be at least 6 feet long. The pier reinforcing should be based on structural requirements but in no case should less than two #4 bars for the entire length of the pier be used.

The actual design depth of the piers should be determined using an allowable skin friction of 500 pounds per square foot (psf) for dead plus live loads, with a one-third increase for all loads including wind or seismic. Seventy percent of the skin friction value can be used to resist uplift.

Lateral load resistance can be developed in passive resistance for pier foundations. A passive resistance equal to an equivalent fluid weighing 350 pounds per cubic foot acting against twice the projected diameter of pier shafts can be used. The upper two feet of pier embedment should be neglected in the vertical and passive resistance design as measured from finished grade. The portion of the pier shaft located within 10 feet (as measured laterally) of the nearest slope face should also be ignored in the design.

We recommend the pier foundations be located outside of (or beyond) a 1:1 (horizontal to vertical) plane projected upward from the base of any wall or utility trench, or the portion of a pier located within this zone should be ignored in the design of the pier.

The bottoms of the pier excavations should be relatively dry and free of all loose cuttings or slough prior to placing reinforcing steel and concrete. Any accumulated water in pier excavations should be removed prior to placing concrete. We recommend that the excavation of all piers be performed under the direct observation of SFB to confirm that the pier foundations are founded in suitable materials and constructed in accordance with the recommendations presented herein. Preliminarily, we recommend concrete pours of pier excavations be performed within 24 hours of excavation and prior to any rainstorms. Where caving or high groundwater conditions exist, additional measures such as using casing, tremie methods, and pouring concrete immediately after excavating may be necessary. SFB should be consulted on the need for additional measures for pier construction as needed during construction.

4.2.3 Seismic Design Criteria

The following parameters were calculated using the U.S. Seismic Design Map program[9], and were based on the site being located at approximate latitude 37.935°N and longitude 121.944°W. For seismic design using the 2019 California Building Code (CBC), we recommend the following seismic design parameters be used. These values are based on applying the ASCE 7-16 model and assuming the structures are categorized as Risk Category II.

[9]https://seismicmaps.org/ (accessed 2/28/20)

Seismic Design Parameter	Design Value
Site Class	C
S_S	2.275
S_1	0.665
S_{MS}	2.731
S_{M1}	0.931
S_{DS}	1.820
S_{D1}	0.621
SDC	D
F_a	1.2
F_v	1.4
PGA_M	1.09

4.3 Pavements

Based on the results of laboratory testing of onsite materials, we recommend that an R-value of 5 be used in preliminary asphalt concrete pavement design. We recommend additional R-value tests be performed once the pavement subgrade is established to confirm the R-value used in the design. Pavement subgrade completely composed of sandy and gravelly fills will result in higher R-values and thinner pavement sections.

We developed the following alternative preliminary pavement sections using Topic 608 of the State of California Department of Transportation Highway Design Manual, the recommended R-value, and typical traffic indices for residential developments. The project's Civil Engineer or appropriate public agency should determine actual traffic indices. The pavement thicknesses shown below are SFB's recommended minimum values; governing agencies may require pavement thicknesses greater than those shown.

PRELIMINARY PAVEMENT DESIGN ALTERNATIVES SUBGRADE R-VALUE = 5			
Location	Pavement Components		Total Thickness (inches)
	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)	
T.I. = 4.5 (auto & light truck parking)	3.0	9.0	12.0
T.I. = 5.0 (access ways/courts)	3.0	11.0	14.0

If the pavements are planned to be placed prior to or during construction, the traffic indices and pavement sections may not be adequate for support of what is typically more frequent and heavier construction traffic. If the pavement sections will be used for construction access by heavy trucks or construction equipment (especially fork lifts with support footings), SFB should be consulted to provide recommendations for alternative pavement sections capable of supporting the heavier use and heavier loads. If requested, SFB can provide recommendations for a phased placement of the asphalt concrete to reduce the potential for mechanical scars caused by construction traffic in the finished grade. Preliminary pavement sections should be revised, if necessary, when actual traffic indices are known and pavement subgrade elevations are determined.

Pavement baserock and asphalt concrete should be compacted to at least 95 percent relative compaction. The asphalt concrete compacted unit weight should be determined using Caltrans Test Method 308-A or ASTM Test Method D1188. Asphalt concrete should also satisfy the S-value requirements by Caltrans.

We recommend regular maintenance of the asphalt concrete be performed at approximately five-year intervals. Maintenance may include sand slurry sealing, crack filling, and chip seals as necessary. If regular maintenance is not performed, the asphalt concrete layer could experience premature degradation requiring more extensive repairs.

5.0 CONDITIONS AND LIMITATIONS

SFB is not responsible for the validity or accuracy of information, analyses, test results, or designs provided to SFB by others or prepared by others. The analysis, designs, opinions, and recommendations submitted in this report are based in part upon the data obtained from our field work and upon information provided by others. Site exploration and testing characterizes subsurface conditions only at the locations where the explorations or tests are performed; actual subsurface conditions between explorations or tests may be different than those described in this report. Variations of subsurface conditions from those analyzed or characterized in this report are not uncommon and may become evident during construction. In addition, changes in the condition of the site can occur over time as a result of either natural processes (such as earthquakes, flooding, or changes in ground water levels) or human activity (such as construction adjacent to the site, dumping of fill, or excavating). If changes to the site's surface or subsurface conditions occur since the performance of the field work described in this report, or if differing subsurface conditions are encountered, we should be contacted immediately to evaluate the differing conditions to assess if the opinions, conclusions, and recommendations provided in this report are still applicable or should be amended.

We recommend SFB be retained to provide geotechnical services during design, reviews, earthwork operations, paving operations, and foundation installation to confirm and observe compliance with the design concepts, specifications and recommendations presented in this report. Our presence will also allow us to modify design if unanticipated subsurface conditions are encountered or if changes to the scope of the project, as defined in this report, are made.

This report is a design document that has been prepared in accordance with generally accepted geological and geotechnical engineering practices for the exclusive use of DeNova Homes and their consultants for specific application to the proposed Mitchell Canyon Road residential subdivision development project in Clayton, California, and is intended to represent our design recommendations to DeNova Homes for specific application to the subdivision project. The conclusions and recommendations contained in this report are solely professional opinions. It is the responsibility of DeNova Homes to transmit the information and recommendations of this report to those designing and constructing the project. We will not be responsible for the misinterpretation of the information provided in this report. We recommend SFB be retained to review geological and geotechnical aspects of the construction calculations, specifications, and plans; we should also be retained to participate in prebid and preconstruction conferences to clarify the opinions, conclusions, and recommendations contained in this report.

It should be understood that advancements in the practice of geotechnical engineering and engineering geology, or discovery of differing surface or subsurface conditions, may affect the

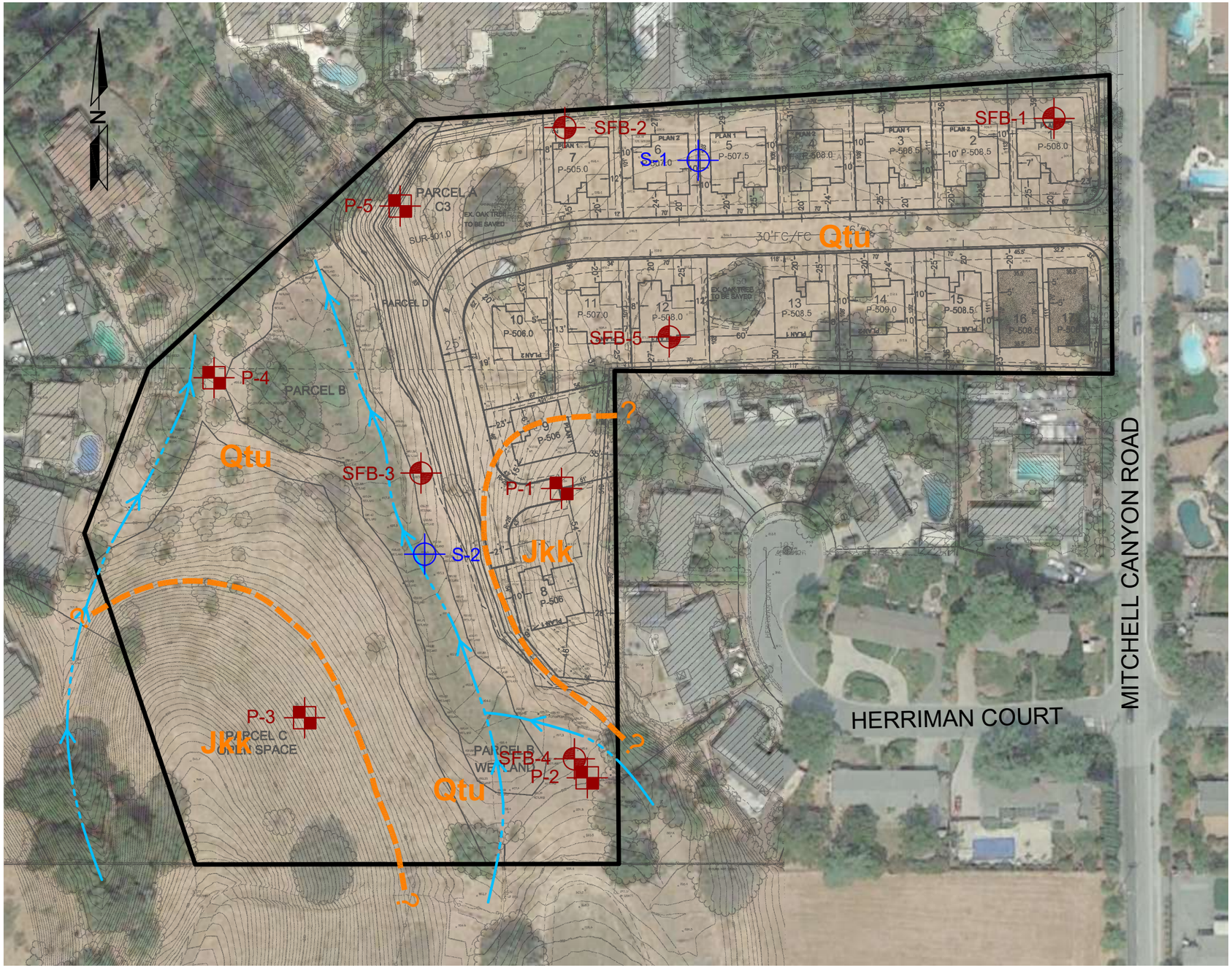
validity of this report and are not uncommon. SFB strives to perform its services in a proper and professional manner with reasonable care and competence but we are not infallible. Geological engineering and geotechnical engineering are disciplines that are far less exact than other engineering disciplines; therefore we should be consulted if it is not completely understood what the limitations to using this report are.

In the event that there are any changes in the nature, design or location of the project, as described in this report, or if any future additions are planned, the conclusions and recommendations contained in this report shall not be considered valid unless we are contacted in writing, the project changes are reviewed by us, and the conclusions and recommendations presented in this report are modified or verified in writing. The opinions, conclusions, and recommendations contained in this report are based upon the description of the project as presented in the introduction section of this report.

This report does not necessarily represent all of the information that has been communicated by us to DeNova Homes and their consultants during the course of this engagement and our rendering of professional services to DeNova Homes Reliance on this report by parties other than those described above must be at their own risk unless we are first consulted as to the parties' intended use of this report and only after we obtain the written consent of DeNova Homes to divulge information that may have been communicated to DeNova Homes We cannot accept consequences for use of segregated portions of this report.

Please refer to Appendix D for additional guidelines regarding use of this report.

FIGURES



KEY*

———	PROJECT LIMIT
P-5	SFB EXPLORATORY PIT (8/26/19)
SFB-5	SFB EXPLORATORY BORING (8/19/19)
S-2	PREVIOUS EXPLORATORY BORING (ABEL SOARES, 1976)
Qtu	PLIO-PLEISTOCENE GRAVELLY SOILS
Jkk	KNOXVILLE FORMATION SANDSTONE
?------?	GEOLOGIC CONTACT; QUERRIED WHERE NOT MAPPED
←———	EPHEMERAL DRAINAGE CHANNEL

*ALL LOCATIONS ARE APPROXIMATE

BASE: Overlayed project conceptual site plan prepared by Meridian Associates, Inc. and dated 1/20/20 on a Google Earth image dated 8/31/17.

APPROXIMATE SCALE: 1" = 100'

0' 100' 200'

DATE	PROJECT NO.
February 2020	155-90

Stevens Ferrone & Bailey Engineering Company, Inc
1600 Willow Pass Court
Concord, CA 94520
Tel 925.688.1001
Fax 925.688.1005
www.SFandB.com

SITE PLAN & ENGINEERING GEOLOGY MAP

MITCHELL CANYON ROAD
Clayton, California

FIGURE 1

APPENDIX A

Field Investigation

APPENDIX A
Field Investigation

Our field investigation for the proposed residential subdivision development to be located west of Mitchell Canyon Road in Clayton, California, consisted of surface reconnaissance and a subsurface exploration program. Geotechnical reconnaissance of the site and surrounding area was performed on August 14, 2019. Subsurface exploration was performed using a truck-mounted drill rig equipped with 4-inch diameter, continuous flight, solid stem augers and a Cat 430F2 backhoe. Five exploratory borings were drilled on August 19, 2019 to a maximum depth of about 21 feet below existing grade. Five exploratory test pits were excavated on August 26, 2019 to a maximum depth of about 6 feet below existing grade. Our representatives continuously logged the soils encountered in the borings and the pits in the field. The soils are described in general accordance with the Unified Soil Classification System (ASTM D2487). The logs of the borings and pits, as well as, a key for the classification of the soil (Figure A-1) and rocks mass characteristics (Figure A-2) are included as part of this appendix.

Representative samples were obtained from our exploratory borings and pits at selected depths appropriate to the investigation. Relatively undisturbed samples were obtained using a 3-inch O.D. split barrel sampler with liners, and disturbed samples were obtained using the 2-inch O.D. split spoon sampler. All samples were transmitted to our offices for evaluation and appropriate testing. Both sampler types are indicated in the "Sampler" column of the boring logs as designated in Figure A-1.

Resistance blow counts were obtained in our borings with the samplers by dropping a 140-pound safety hammer through a 30-inch free fall. The sampler was driven 18 inches and the number of blows were recorded for each 6 inches of penetration. The blows per foot recorded on the boring logs represent the accumulated number of converted blows that were required to drive the last 12 inches, or the number of inches indicated where hard resistance was encountered. The blow counts recorded on the boring logs have been converted to equivalent SPT field blow-counts, but have not been corrected for overburden, silt content, or other factors.

The attached boring and pit logs and related information show our interpretation of the subsurface conditions at the dates and locations indicated, and it is not warranted that they are representative of subsurface conditions at other locations and times.

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		grf	ltr	Description
Coarse Grained Soils	Gravel Gravelly Soils		GW	Well-graded gravels or gravel sand mixtures, little or no fines
			GP	Poorly-graded gravels or gravel sand mixture, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sand And Sandy Soils		SW	Well-graded sands or gravelly sands, little or no fines
			SP	Poorly-graded sands or gravelly sands, little or no fines
			SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, and-clay mixtures

Major Divisions		grf	ltr	Description
Soils	Silts And Clays LL < 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silt-clays of low plasticity
	Silts And Clays LL > 50		MH	Inorganic silts, micaceous or diatomaceous fine or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity
	Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZES

U.S. STANDARD SERIES SIEVE				CLEAR SQUARE SIEVE OPENINGS			
200	40	10	4	3/4"	3"	12"	

Silts and Clays	Sand			Gravel		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

RELATIVE DENSITY

Sands and Gravels	Blows/Foot*
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Over 50

CONSISTENCY

Silts and Clays	Blows/Foot*	Strength (tsf)**
Very Soft	0 - 2	0 - 1/4
Soft	2 - 4	1/4 - 1/2
Firm	4 - 8	1/2 - 1
Stiff	8 - 16	1 - 2
Very Stiff	16 - 32	2 - 4
Hard	Over 32	Over 4

*Number of Blows for a 140-pound hammer falling 30 inches, driving a 2-inch O.D. (1-3/8" I.D.) split spoon sampler.
**Unconfined compressive strength.

SYMBOLS & NOTES

- Standard Penetration sampler (2" OD Split Barrel)
- Modified California sampler (3" OD Split Barrel)
- California Sampler (2.5" OD Split Barrel)
- Shelby Tube
- Pitcher Barrel
- HQ Core
- Ground Water level initially encountered
- Ground Water level at end of drilling

PI = Plasticity Index
LL = Liquid Limit
R = R-Value

Increasing Visual Moisture Content

Saturated
Wet
Moist
Damp
Dry

Constituent Percentage

trace	<5%
some	5-15%
with	16-30%
-y	31-49%

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO EXPLORATORY BORING LOGS

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	FIGURE NO.
155-90	February 2020	A-1

KEY 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

ROCK MASS CHARACTERISTICS

WEATHERING

FRESH - Rock fresh, crystals bright, few joints may show slight staining. Rock rings under hammer blows if crystalline.

VERY SLIGHT - Rock generally fresh, joints stained, some joints may show thin clay coatings, crystals in broken face show bright. Rings under hammer blows if crystalline.

SLIGHT - Rock generally fresh, joints stained, and discoloration extends into rock up to 1 inch. Joints may contain clay. In granitiod rocks, some occasional feldspar crystals are dull and discolored. Crystalline rock rings under hammer blows.

MODERATE - Significant portions of rock show discoloration and weathering effects. In granitiod rocks, most feldspars are dull and discolored; some show clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.

MODERATELY SEVERE - All rock except quartz discolored or stained. In granitiod rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick. Rock goes "clunk" when struck.

SEVERE - All rock except quartz discolored or stained. Rock "fabric" clear and evident, but reduced in strength to strong soil. In some granitiod rocks, all feldspars kaolinized to some extent. Some fragments of strong rock usually remain.

VERY SEVERE - All rock except quartz discolored or stained. Rock "fabric" discernible, but rock mass effectively reduced to "soil" with only fragments of strong rock remaining.

COMPLETE - Rock reduced to "soil." Rock "fabric" not discernible or discernible only in small scattered locations. Quartz may be present as dikes or stringers.

STRENGTH

VERY STRONG - Resists breakage from hammer blows; but will yield dust and small chips.
STRONG - Withstands a few hammer blows; but will yield large fragments.
MODERATELY STRONG - Withstands a few firm hammer blows.
WEAK - Crumbles with light hammer blows.
FRIABLE - Can be broken down with hand and finger pressure.
LOW - Soil-like strength

DISCONTINUITY SPACING

JOINTS	BEDDING, CLEAVAGE, FOLIATION		
CRUSHED	Very Laminated	Less than 1/2 inch	Less than 1.3 cm
INTENSELY	Laminated	1/2 to 1 inch	1.3 cm to 2.5 cm
VERY CLOSE	Very Thin	1 to 2 inches	2.5 cm to 5 cm
CLOSE	Thin	2 inches to 1 foot	5 cm to 30 cm
MODERATELY CLOSE	Medium	1 foot to 3 feet	30 cm to 1 m
WIDE	Thick	3 feet to 10 feet	1 m to 3 m
VERY WIDE	Very Thick	Greater than 10 feet	Greater than 3 m

HARDNESS

VERY HARD - Cannot be scratched with a knife; metal powder left on sample.
HARD - Scratched with knife with difficulty; trace of metal powder left on samples; scratch faintly visible.
MODERATELY HARD - Readily scratched with knife, scratch leaves heavy trace of dust and is readily visible.
LOW HARDNESS - Gouged or grooved to 1/16 inch by firm pressure on knife; scratches with penny.
SOFT - Gouged or grooved readily with a knife; small thin pieces can be grooved by finger pressure.
VERY SOFT - Carves with knife; scratched by fingernail.

ROUGHNESS OF DISCONTINUITY SURFACES

SMOOTH - Appears smooth and is essentially smooth to the touch. May be slickensided.
SLIGHTLY ROUGH - Asperities on the fracture are clearly visible.
MEDIUM ROUGH - Asperities are clearly visible and fracture surface feels abrasive.
ROUGH - Large angular asperities can be seen. Some ridge and high side angle steps are evident.
VERY ROUGH - Near vertical steps and ridges occur on the fracture surface.

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO ROCK CHARACTERISTICS

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	FIGURE NO.
155-90	**February 2020**	**A-2**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE	DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
CLAY (CL), reddish-brown, silty, with sand(fine- to medium-grained), trace gravel(fine, subangular to subrounded), with rootlets, dry.	very stiff		0		16	12	100	3.5	At 2 feet: Liquid Limit = 32% Plasticity Index = 14 Fine Gravel = 4% Coarse Sand = 4% Medium Sand = 6% Fine Sand = 12% Silt = 38% Clay = 36%
	hard				67				
Change color to mottled reddish-brown with black streaks, some sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), with sand clasts.	very stiff		5		23	18	109		
CLAY (CL), mottled brown, silty, with sand(fine- to medium-grained), with gravel(fine, subangular to subrounded), dry to damp.	hard								
With rock fragments.			10		68/11"				
SAND (SC), yellowish-brown, fine- to coarse-grained, with clay, some to with gravel(fine, subangular to subrounded), some silt, damp to moist. Some clay, damp.	dense		15		30/3"				
CLAY (CL), brown, silty, with sand(fine- to coarse-grained), damp.	hard		20		50/6"				
Bottom of Boring = 21 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.									

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-1**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), reddish-brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), with sand clasts, damp.	very stiff		0		16	19	104	6.3	
Change color to mottled reddish-brown and light brown, dry to damp.	hard				52				
			5		30/6"				
			10		30/4"				
SAND (SC), yellowish-brown, fine- to coarse-grained, some clay, trace silt, trace gravel(fine, subangular to subrounded), damp.	dense to very dense								
			15		50/6"				
Bottom of Boring = 16 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-2**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER 10 feet	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), brown, silty, some sand(fine- to coarse-grained), dry to damp.	very stiff		0		16	26	93	6.0	
					25				
CLAY (CL), mottled reddish-brown and light brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), damp.	very stiff		5		36	23	100	5.9	
CLAY (CL), yellowish-brown, silty, with sand(fine- to medium-grained), with carbonates, damp.	hard								
CLAY (CL), mottled olive and yellowish-brown, silty, some sand(fine- to coarse-grained), with rock fragments, damp to moist.	hard		10		53				
Thin lense of rock at 11 feet.									
SAND (SC), brown, fine- to coarse-grained, with clay, some silt, with rock fragments, moist to wet.	dense to very dense		15		50/6"				
Drilling refusal at 17 feet.									
Bottom of Boring = 17 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-3**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), yellowish-brown, silty, sandy(fine- to coarse-grained), dry.	hard		0						
GRAVEL (GM), drilling refusal.	dense				30/6" 50/2"				
Bottom of Boring = 2.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			5						
			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.

1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-4**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), yellowish-brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), dry.	very stiff		0		30/6"	14	110	7.1	
With rock fragments.	hard				50/5"				
Change color to mottled reddish-brown and light brown, sandy(fine- to coarse-grained).			5		50/6"	11			
SAND (SM), yellowish-brown, fine- to medium-grained, silty, with gravel(fine, subangular to subrounded), trace clay, with rock fragments, dry to damp.	dense to very dense		10		50/6"	9			
GRAVEL (GM), drilling refusal.					50/6"				
Bottom of Boring = 12.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			15						
			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-5**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, sandy(fine-grained), some clay, dry.	soft		0						
SANDSTONE, mottled brown-black-gray, some clay coated surfaces, deeply to moderately weathered, low hardness, very closely fractured, chaotic fracture orientation, damp.	friable to moderately strong		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-1**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), brown, with silt, with sand(fine- to coarse-grained), trace gravel(fine to coarse, subangular to subrounded), damp.	stiff		0						Bag sample at 1-2 feet At 1-2 feet: Liquid Limit = 58% Plasticity Index = 39 Fine Gravel = 1% Coarse Sand = 3% Medium Sand = 6% Fine Sand = 10% Silt = 22% Clay = 58% Bag sample at 3 feet
GRAVEL (GM), mottled grayish-brown, fine to coarse, subangular to subrounded, sandy(fine- to coarse-grained), silty, damp.	medium dense		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-2**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, trace to some clay, trace sand(fine-grained), dry to damp.	soft		0						Bag sample at 1-3 feet
SANDSTONE, mottled dark brown, clay coated surfaces, deeply to moderately weathered, low hardness, very closely fractured, chaotic fracture orientation, damp.	friable to moderately strong		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-3**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, some clay, trace sand(fine-grained), trace roots, dry.	soft		0						
CLAY (CL)/SILT (ML), mottled brown, some sand(fine- to coarse-grained), some gravel(fine to coarse, subangular to subrounded), with tree roots to 3', damp.	stiff								
Change color to reddish-brown, increasing clay content with depth.	very stiff		5						
Bottom of Boring = 6 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

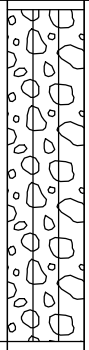
Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-4**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
GRAVEL (GM), reddish-brown, fine to coarse, subangular to subrounded, with sand(fine- to coarse-grained), with silt, some clay, trace cobbles, damp.	medium dense		0 5						
Bottom of Boring = 6 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10 15 20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-5**

APPENDIX B

Laboratory Investigation

APPENDIX B
Laboratory Investigation

Our laboratory testing program for the proposed residential subdivision development to be located west of Mitchell Canyon Road in Clayton, California was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site.

The natural water content was determined on nine samples of the subsurface soils. The water contents are recorded on the boring logs at the appropriate sample depths.

Dry density determination was performed on six samples of the subsurface soils to evaluate their physical properties. The results of the tests are shown on the boring logs at the appropriate sample depths.

Atterberg Limit determinations were performed on two samples of the subsurface soils to determine the range of water content over which these materials exhibit plasticity. These values are used to classify the soil in accordance with the Unified Soil Classification System and to indicate the soil's compressibility and expansion potentials. The results of these tests are presented on the boring and pit log at the appropriate sample depth and are also attached to this appendix.

Gradation and hydrometer tests were performed on two samples of the subsurface soils. These tests were performed to assist in the classification of the soils and to determine their grain size distribution. The results of the tests are presented on the boring and pit log at the appropriate sample depth and are also attached to this appendix.

Unconfined compression tests were performed on five relatively undisturbed samples of the subsurface soils to evaluate the undrained shear strengths of these materials. Failure was taken as the peak normal stress. The results of the tests are presented on the boring logs at the appropriate sample depths and are also attached to this appendix

Four onsite soil samples were tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in this appendix. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors.

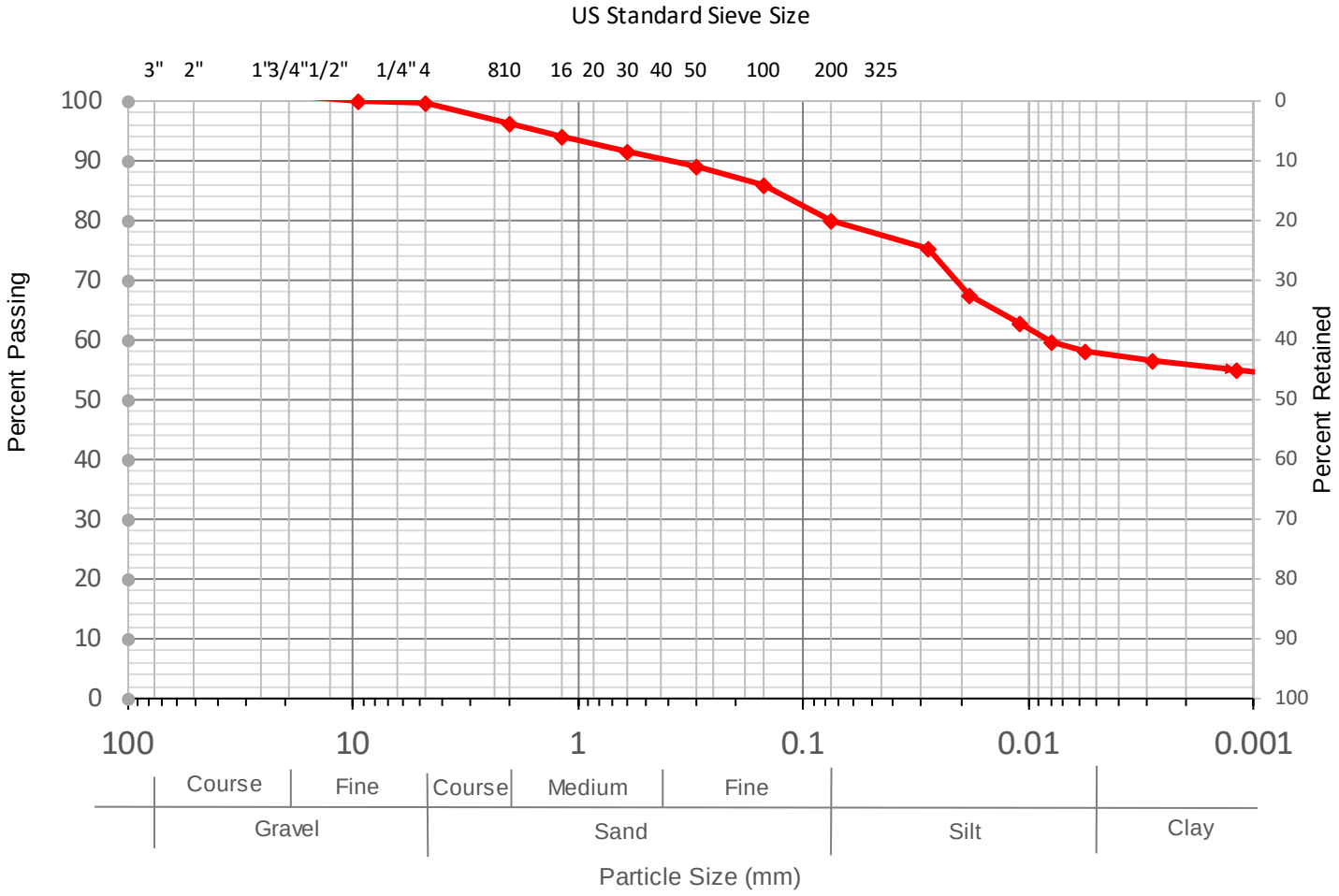
Stevens Ferrone & Bailey Engineering Company, Inc

Hydrometer Analysis – ASTM D422

Project Number: 155-90 **Project Name:** Mitchell Canyon

Sample Number: P-2 **Description:** Brown silty CLAY with sand (CH)

Depth : 1'-2' **Test Date:** 08-27-19 **Tested By:** R



Composite Sieve Data

Standard Sieve Size	Percent Passing
3"	
1.5"	
3/4"	
3/8"	100
#4	99.8
#10	96.3
#16	94.1
#30	91.4
#50	88.9
#100	85.8
#200	80.1

Particle Diameter (mm)	Percent Soil in Suspension
0.0280	75.4
0.0185	67.6
0.0110	62.8
0.0079	59.7
0.0056	58.1
0.0028	56.6
0.0012	55.0

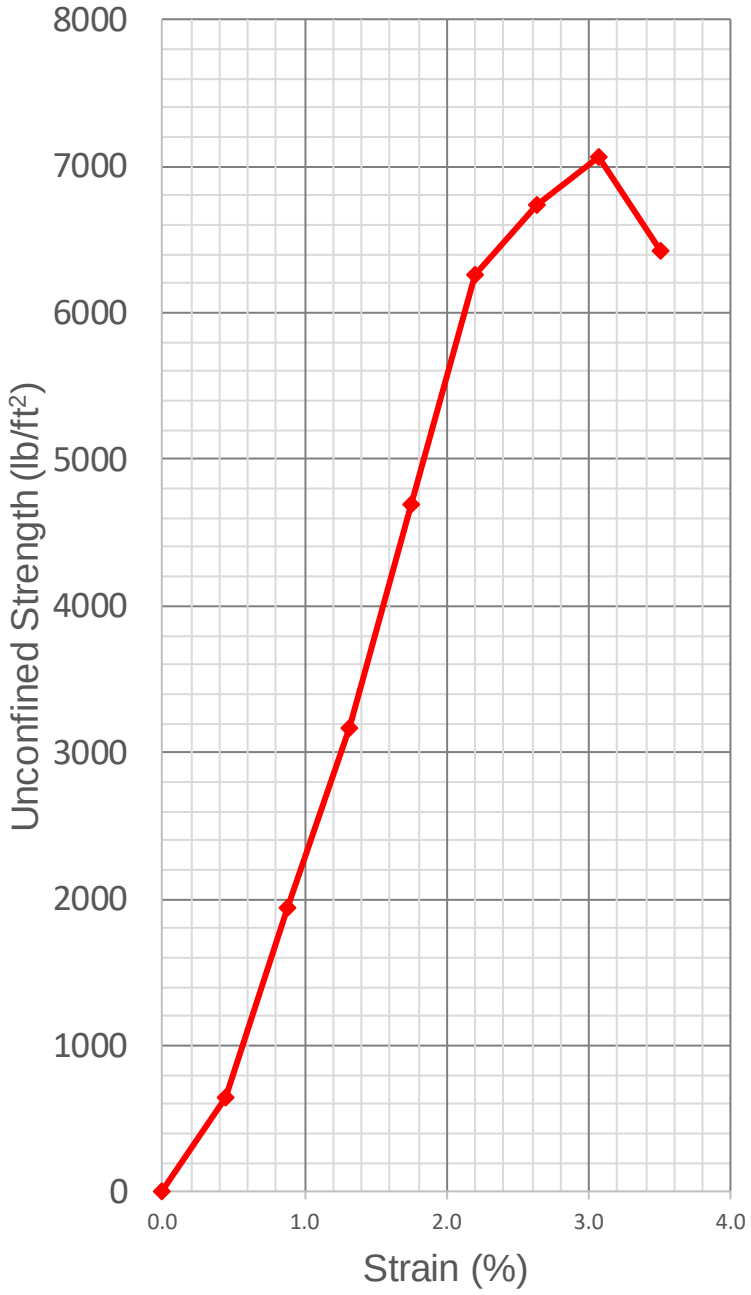
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-5 **Depth :** 1.5

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Red brown silty CLAY with sand and shale some gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.7 in
Volume	0.01517 ft^3
Water Content	14.1 %
Wet Density	125.0 pcf
Dry Density	109.6 pcf

Max Unconfined Compressive Strength	
Elapsed Time	3.5 min
Vertical Dial	0.175 in
Strain	3.1 %
Area	0.03296 ft^2
Axial Load	232.8 lbs
Compressive Strength	7,064 psf

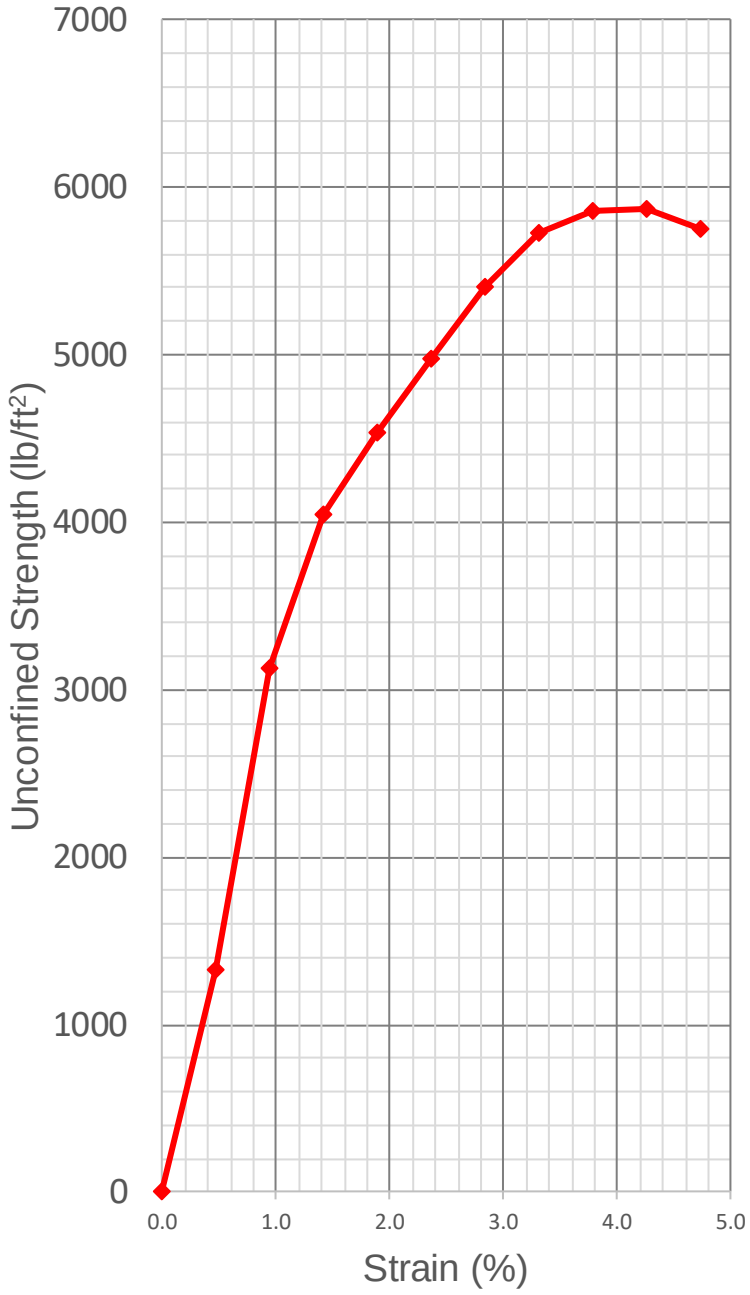
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-3 **Depth :** 6

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Brown silty CLAY with sand (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.29 in
Volume	0.01408 ft^3
Water Content	22.8 %
Wet Density	123.2 pcf
Dry Density	100.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	4.5 min
Vertical Dial	0.225 in
Strain	4.3 %
Area	0.03336 ft^2
Axial Load	196.0 lbs
Compressive Strength	5,875 psf

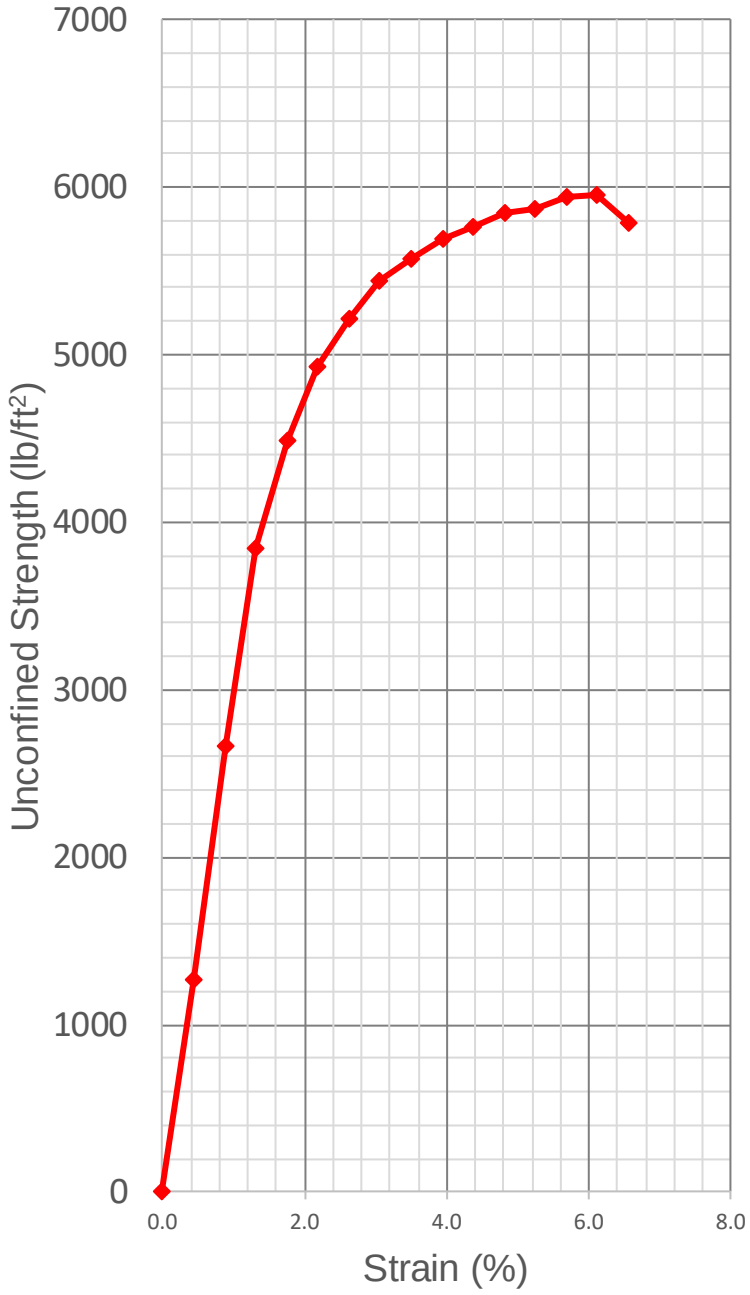
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-3 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Dark brown silty CLAY some sand (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.72 in
Volume	0.01523 ft^3
Water Content	26.1 %
Wet Density	116.6 pcf
Dry Density	92.5 pcf

Max Unconfined Compressive Strength	
Elapsed Time	7 min
Vertical Dial	0.35 in
Strain	6.1 %
Area	0.03403 ft^2
Axial Load	202.7 lbs
Compressive Strength	5,957 psf

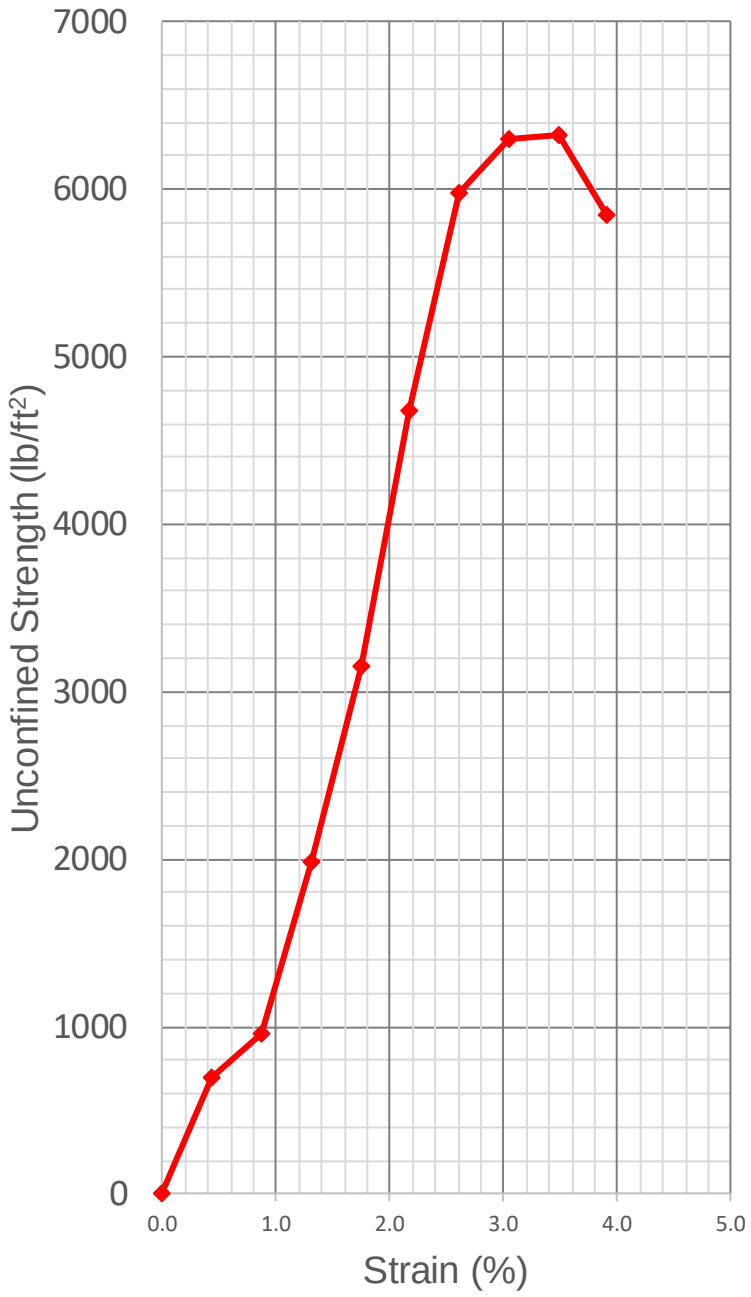
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-2 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Red brown silty CLAY with sand some gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.75 in
Volume	0.01531 ft^3
Water Content	19.2 %
Wet Density	124.3 pcf
Dry Density	104.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	4 min
Vertical Dial	0.2 in
Strain	3.5 %
Area	0.03310 ft^2
Axial Load	209.4 lbs
Compressive Strength	6,327 psf

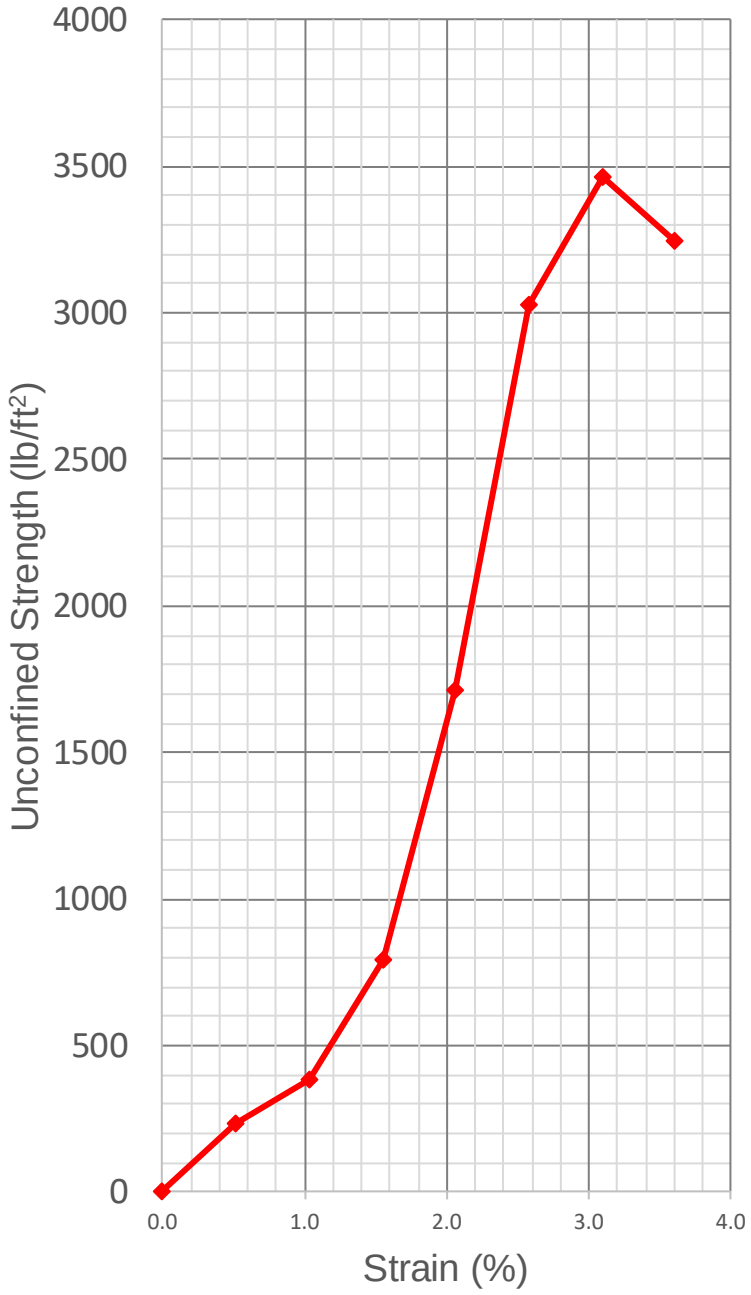
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-1 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/20/2019

Description: Red brown silty CLAY with sand trace gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	4.85 in
Volume	0.01291 ft^3
Water Content	12.4 %
Wet Density	112.7 pcf
Dry Density	100.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	3 min
Vertical Dial	0.15 in
Strain	3.1 %
Area	0.03296 ft^2
Axial Load	114.3 lbs
Compressive Strength	3,467 psf

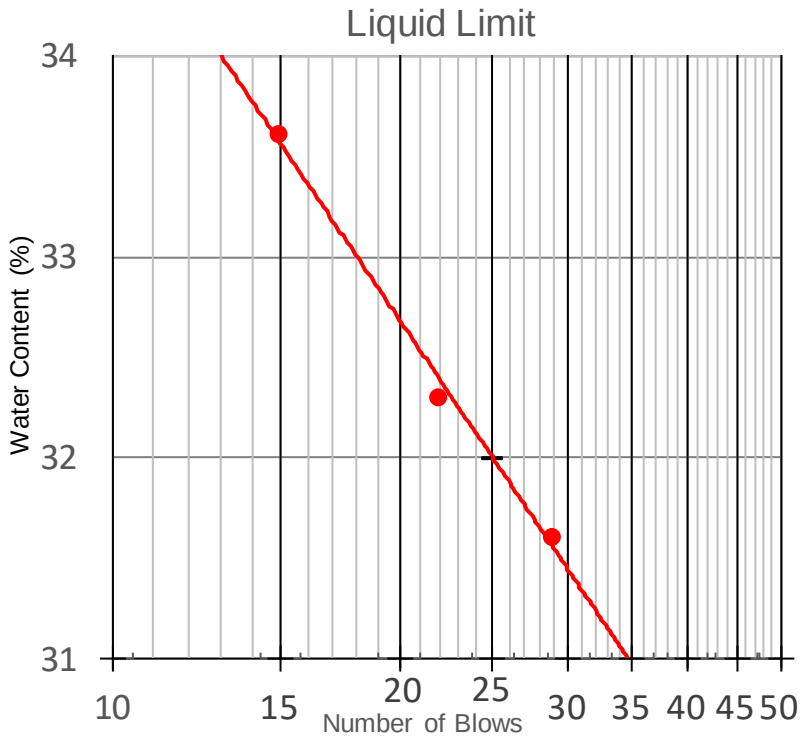
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 155-90 **Project Name:** Mitchell Canyon

Boring/Sample No: SFB-1 **Depth:** 2 **Date:** 08-22-19

Description of Sample: Red brown silty CLAY with sand trace gravel (CL) **Tested By** R

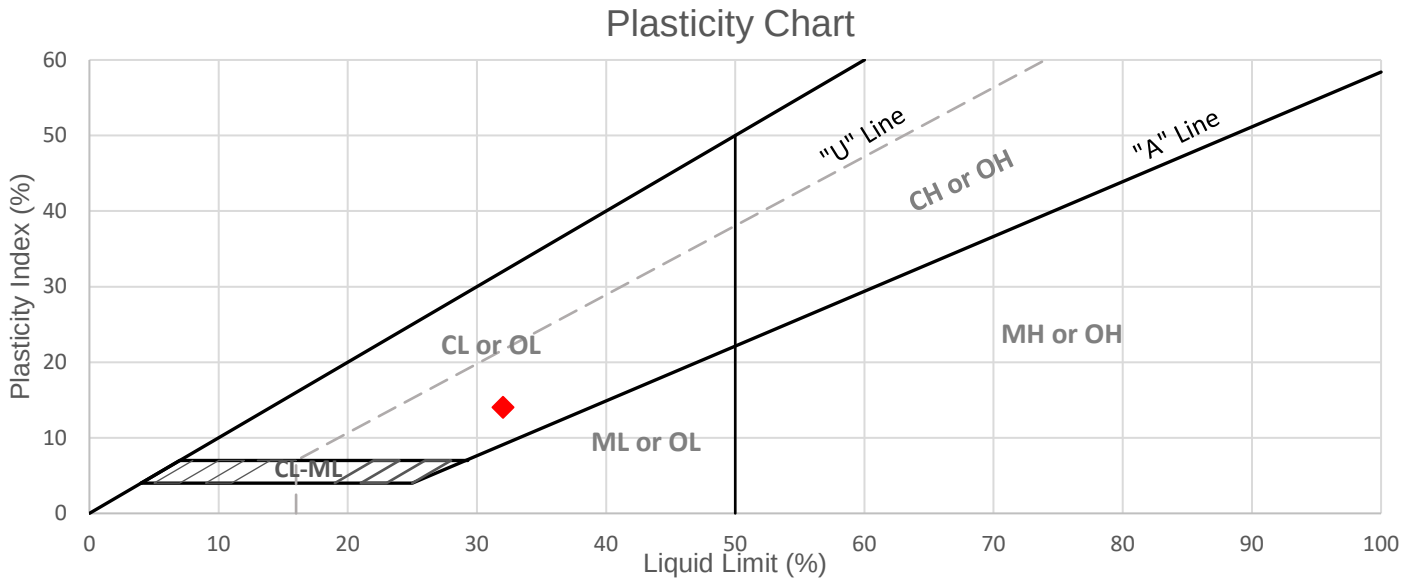


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	17.4	17.6	17.5

Data Summary

Liquid Limit	**32**
Plastic Limit	**18**
Plasticity Index	**14**
Natural Water Content	**12.4**
Liquidity Index	**-0.400**
% Passing #200 Sieve	**73.7**



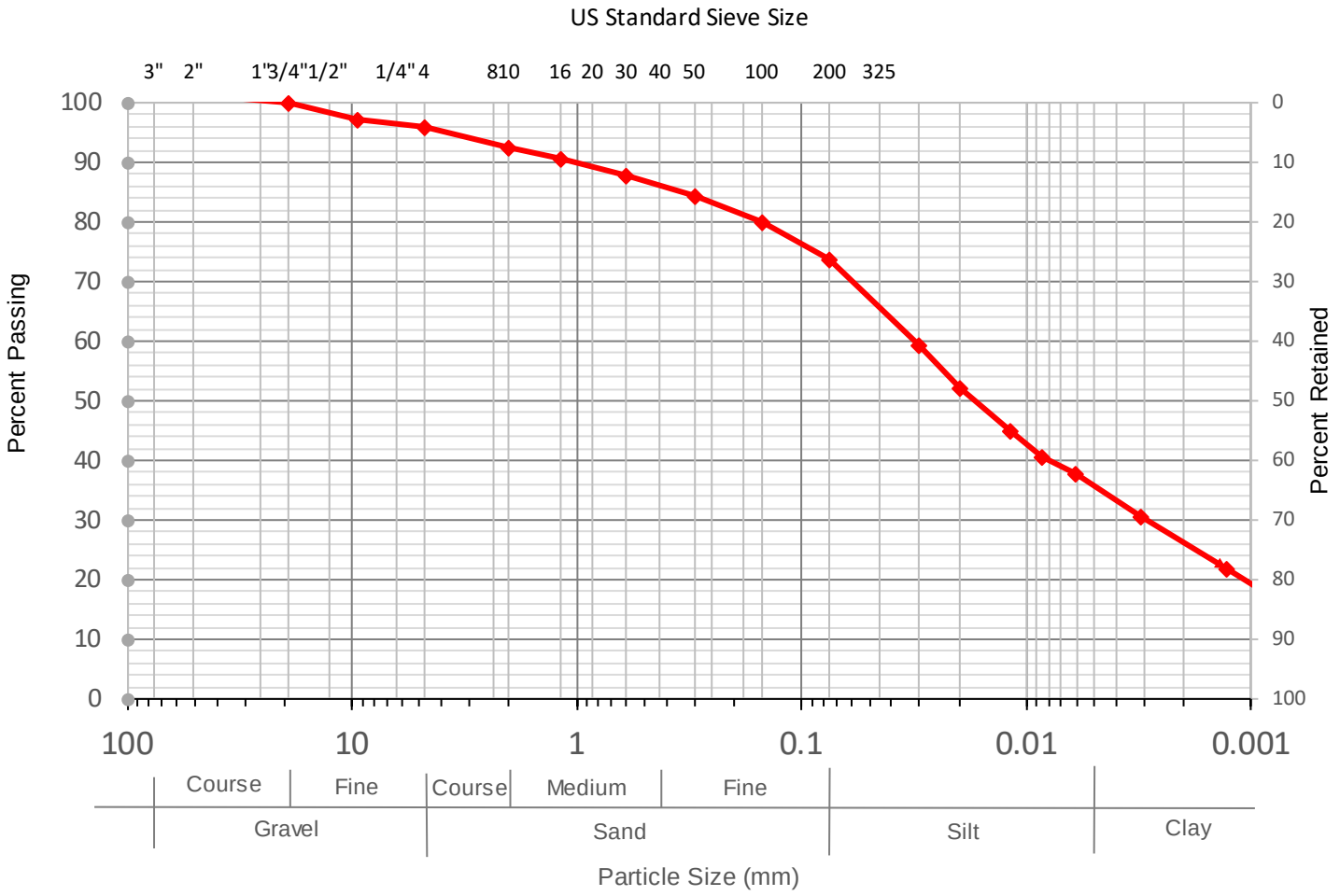
Stevens Ferrone & Bailey Engineering Company, Inc

Hydrometer Analysis – ASTM D422

Project Number: 155-90 **Project Name:** Mitchell Canyon

Sample Number: SFB-1 **Description:** Red brown silty CLAY with sand trace gravel (CL)

Depth : 1.5 **Test Date:** 08-21-19 **Tested By:** R



Composite Sieve Data

Standard Sieve Size	Percent Passing
3"	
1.5"	
3/4"	100.0
3/8"	97.0
#4	95.9
#10	92.5
#16	90.5
#30	87.7
#50	84.3
#100	79.9
#200	73.7

Particle Diameter (mm)	Percent Soil in Suspension
0.0299	59.5
0.0197	52.2
0.0118	45.0
0.0085	40.6
0.0061	37.7
0.0031	30.5
0.0013	21.8

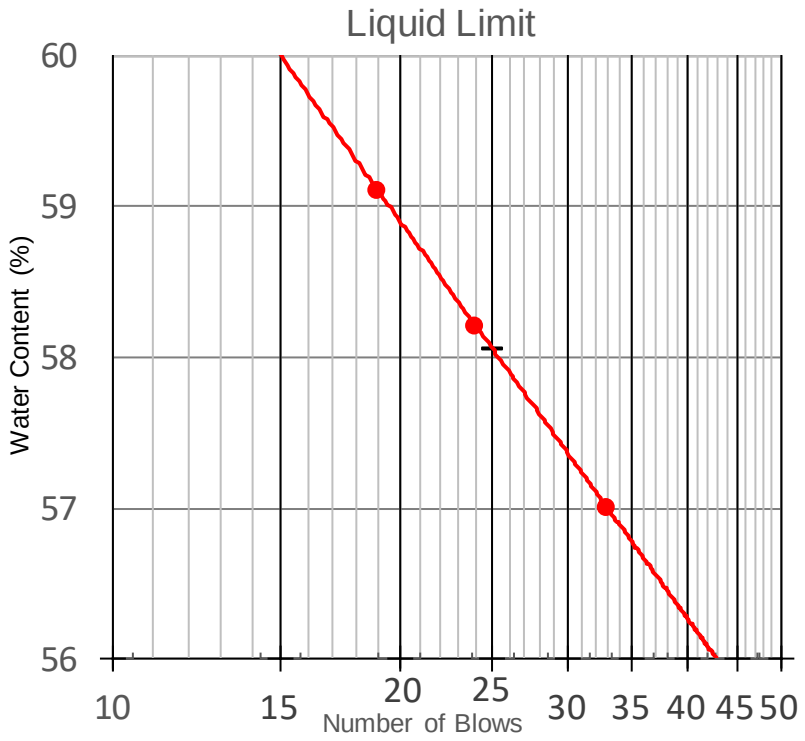
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 155-90 **Project Name:** Mitchell Canyon

Boring/Sample No: P-2 **Depth:** 1'-2' **Date:** 08-26-19

Description of Sample: Brown silty CLAY with sand (CH) **Tested By** R

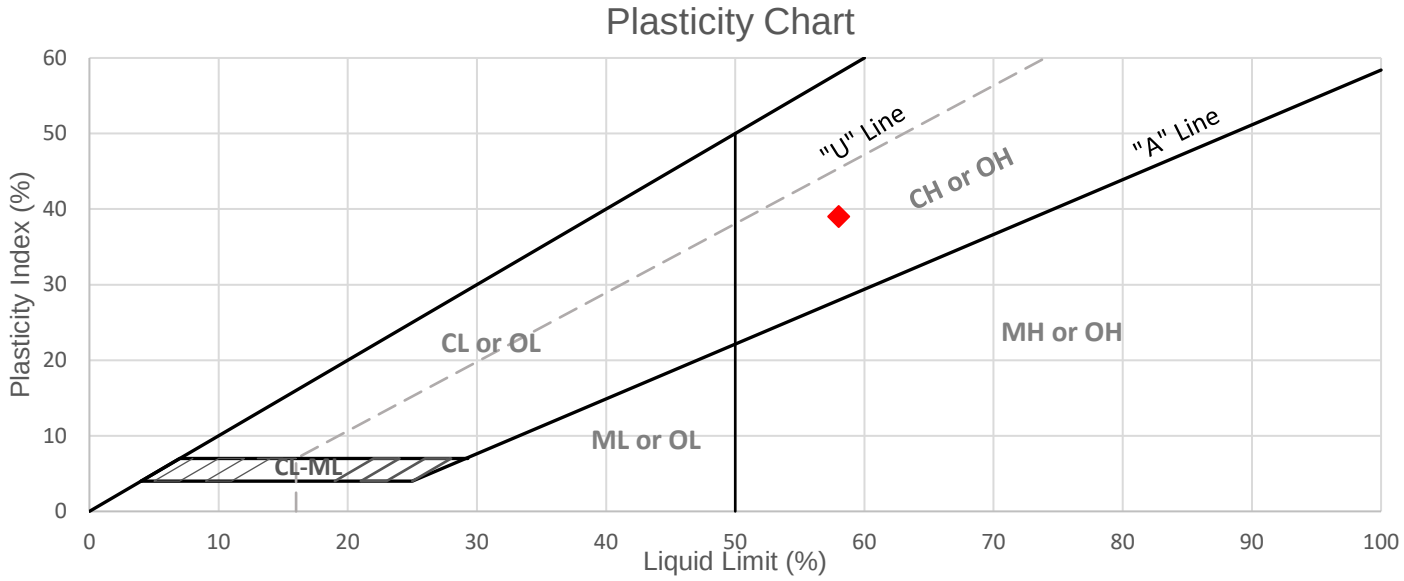


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	18.8	19.1	19.0

Data Summary

Liquid Limit	**58**
Plastic Limit	**19**
Plasticity Index	**39**
Natural Water Content	**20.7**
Liquidity Index	**0.044**
% Passing #200 Sieve	**80.1**



California State Certified Laboratory No. 2153

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

4 September, 2019

Job No.1908149
Cust. No.11486

Ms. Hayley Palilla
Stevens, Ferrone & Bailey
1600 Willow Pass Court
Concord, CA 94520

Subject: Project No.: SFB 143-4
Project Name: Mitchell Canyon Road, Clayton, CA
Corrosivity Analysis – ASTM Test Methods

Dear Ms. Palilla:

Pursuant to your request, CERCO Analytical has analyzed the soil samples submitted on August 20, 2019. Based on the analytical results, this brief corrosivity evaluation is enclosed for your consideration.

Based upon the resistivity measurements, Samples No.001 & No.004 are classified as "corrosive" and Samples No.002 & No.003 are classified as "moderately corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentrations are none detected & 57 mg/kg and determined to be insufficient to attack steel embedded in a concrete mortar coating.

The sulfate ion concentrations are none detected & 430 mg/kg and are determined to be sufficient to potentially be detrimental to reinforced concrete structures and cement mortar-coated steel at these locations. Therefore, concrete that comes into contact with this soil should use sulfate resistant cement such as Type II, with a maximum water-to-cement ratio of 0.55.

The sulfide ion concentrations reflect none detected with a reporting limit of 50 mg/kg.

The pH of the soils ranged from 6.75 to 7.97 which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potentials ranged from 250 to 300-mV. All samples are indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc. at (925) 927-6630.*

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.

J. Darby Howard, Jr., P.E.
President

JDH/jdl
Enclosure

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: Stevens, Ferrone & Bailey
Client's Project No.: 143-4
Client's Project Name: Mitchell Canyon Road, Clayton, CA
Date Sampled: 19-Aug-19
Date Received: 20-Aug-19
Matrix: Soil
Authorization: Signed Chain of Custody

Date of Report: 4-Sep-2019

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Conductivity (umhos/cm)*	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
1908149-001	SFB-1 @ 3.5'	250	6.76	-	1,400	N.D.	N.D.	N.D.
1908149-002	SFB-2 @ 3.5'	300	6.75	-	4,200	N.D.	N.D.	N.D.
1908149-003	SFB-3 @ 11'	280	7.36	-	3,100	N.D.	N.D.	N.D.
1908149-004	SFB-4 @ 1'	270	7.97	-	790	N.D.	57	430

Method:	ASTM D1498	ASTM D4972	ASTM D1125M	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	10	-	50	15	15
Date Analyzed:	29-Aug-2019	29-Aug-2019	-	4-Sep-2019	3-Sep-2019	3-Sep-2019	3-Sep-2019

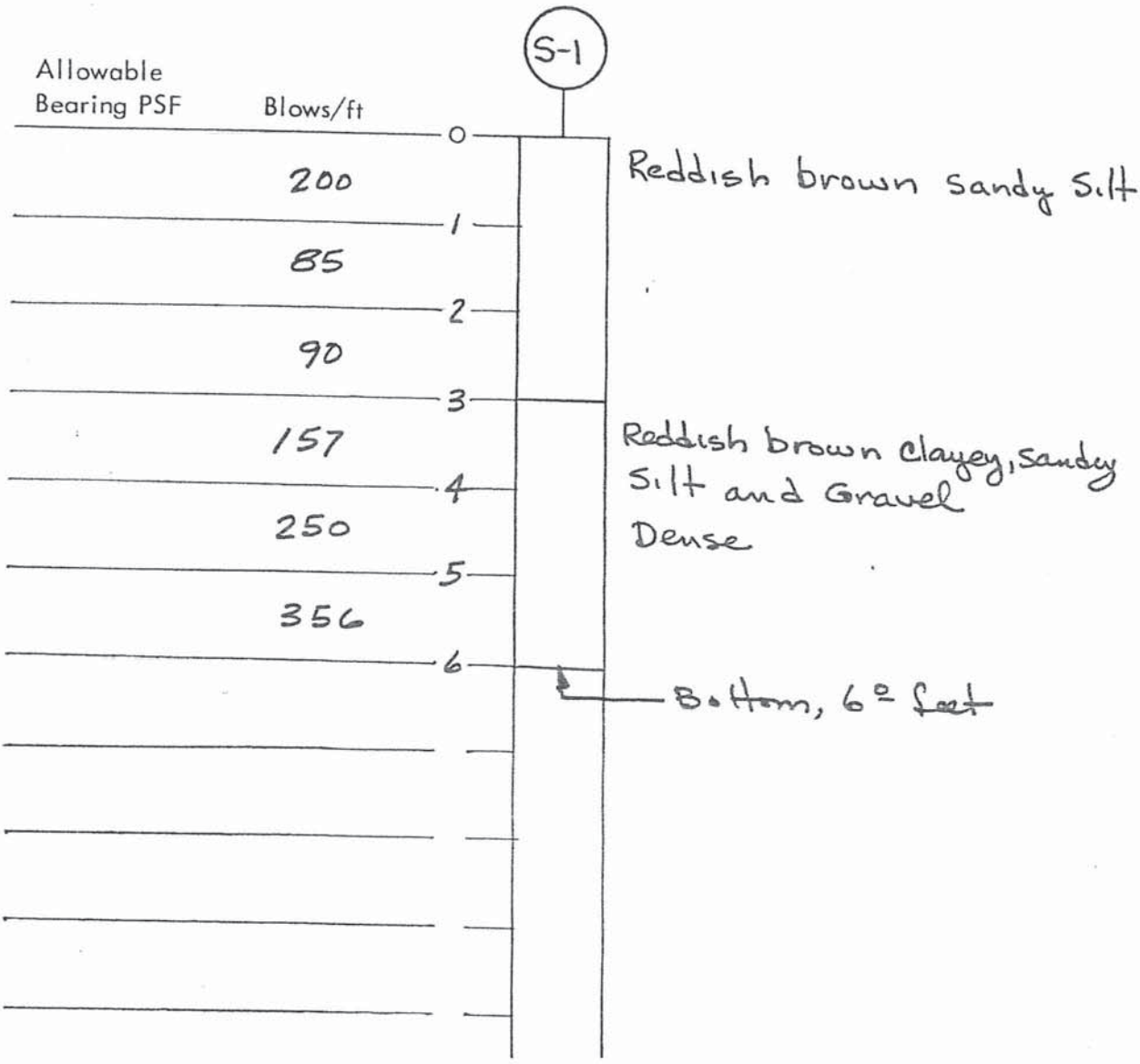
Cheryl McMillen
Laboratory Director

* Results Reported on "As Received" Basis
N.D. - None Detected

Quality Control Summary - All laboratory quality control parameters were found to be within established limits

APPENDIX C

Logs of Previous Borings by Others

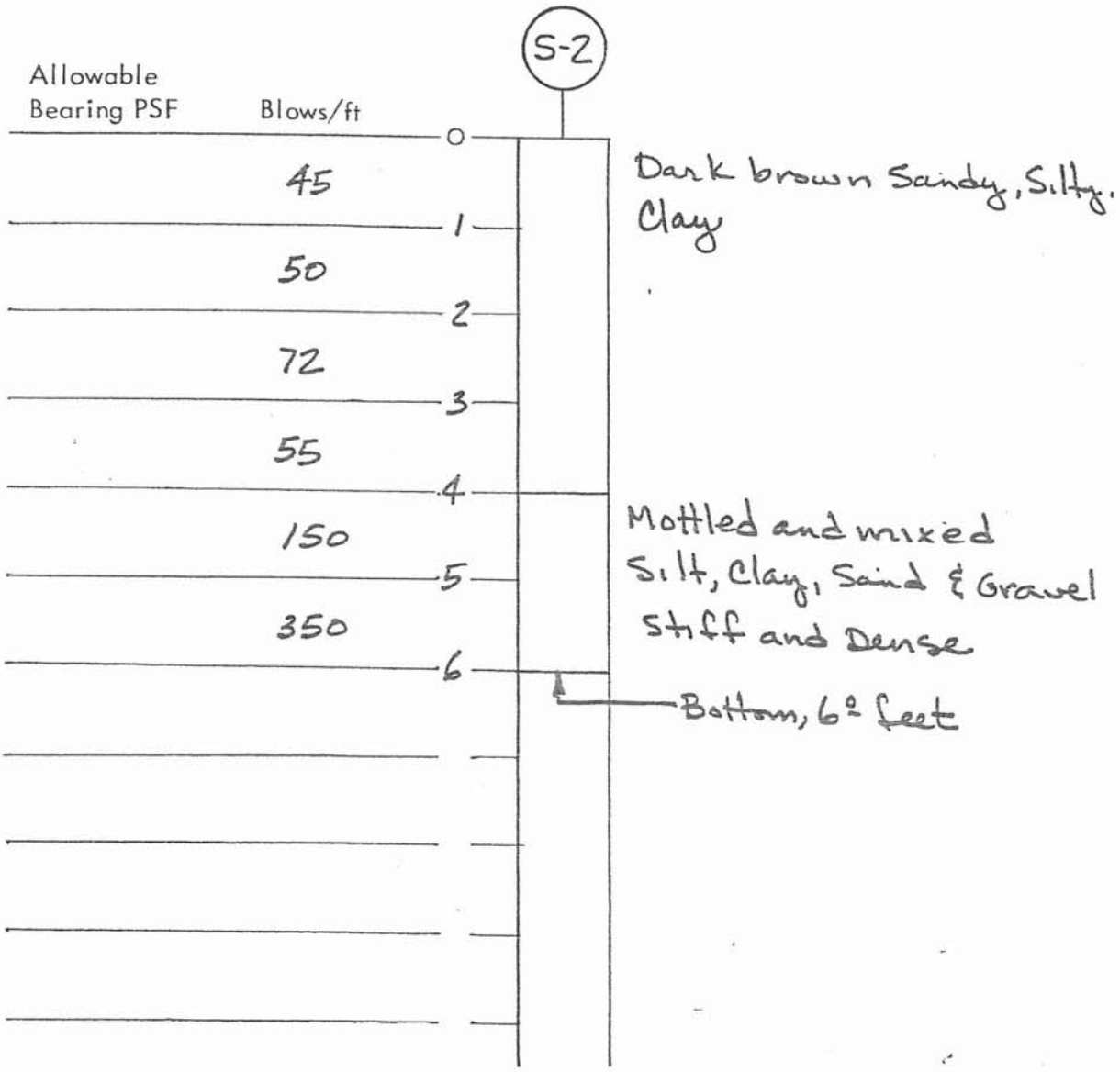


S borings taken with hand driven "porter-type" one inch sampler. Blow counts based upon 25 pounds falling 15 inches. Blow count is not the standard ASTM blow count ("N" value). For standard ASTM blow count, divide by five. (approximate only).

Location Mitchell Canyon Rd. Clayton
Job# 166-2
Drawn by ARS Date 7-13-76
Checked by ____ Date ____
Scale 1"=2'

LOG OF TEST BORINGS

ABEL R. SOARES and ASSOCIATES
soil engineers and geologists
3625 Pinole Valley Road 415-758-5651
Pinole, California 94564



S borings taken with hand driven "porter-type" one inch sampler. Blow counts based upon 25 pounds falling 15 inches. Blow count is not the standard ASTM blow count ("N" value). For standard ASTM blow count, divide by five. (approximate only).

Location Mitchell Canyon Rd. Clayton Job# 166-2 Drawn by ARS Date 7-13-76 Checked by ____ Date ____ Scale 1" = 2'	LOG OF TEST BORINGS	ABEL R. SOARES and ASSOCIATES soil engineers and geologists 3625 Pinole Valley Road 415-758-5651 Pinole, California 94564

APPENDIX D

ASFE Guidelines

Important Information about Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; ***none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.***

Rely on Your ASFE-Member Geotechnical Engineer for Additional Assistance

Membership in ASFE/The Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE THE GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@asfe.org www.asfe.org

Copyright 2004 by ASFE, Inc. Duplication, reproduction, or copying of this document, in whole or in part, by any means whatsoever, is strictly prohibited, except with ASFE's specific written permission. Excerpting, quoting, or otherwise extracting wording from this document is permitted only with the express written permission of ASFE, and only for purposes of scholarly research or book review. Only members of ASFE may use this document as a complement to or as an element of a geotechnical engineering report. Any other firm, individual, or other entity that so uses this document without being an ASFE member could be committing negligent or intentional (fraudulent) misrepresentation.

IIGER01115.0MRP

October 5, 2020

Ms. Christine Gregory AICP, Planner
Mr. Scott Allman, City Engineer
Mr. Matthew Feske, Community Development Director
CITY OF CLAYTON
6000 Heritage Trail
Clayton, CA 94517

RE: Diablo Meadows - Proposed Subdivision #9536 / Mitchell Canyon Road
Readdress of Stice September 16, 2020 concerns
Initial Study / Mitigated Negative Declaration ENV-01-20
Rezone ZOA-02-20
Development Plan Permit DP-01-20
Vesting Tentative Map MAP-01-20
Tree Removal Permit TRP-09-20

Dear Sirs:

My wife Patty and I met with Trent Sanson and Kerri Watt with DeNova Homes on Saturday September 26, 2020 to review our previously stated issues. We are pleased to report that our discussion was productive and it appears we have resolved the majority of our concerns. To clarify we are listing the following items when discussed were mitigated as follows:

1. **View Corridors & Design:**
   a. Although being impacted by having six residential lots completely lining our southern 450' long boundary our understanding is that no 2-story or homes with ADU's would be placed against this boundary.
   b. We discussed that a new 6'-0" high wood fence along the southern boundary adjacent to the existing cyclone fence.
   c. There are a number of trees along the southern boundary, some of which have grown through the existing cyclone fence. We asked that these trees be preserved and that a protection zone be implemented for protection. My understanding in reading the arborist's report was a suggestion for a 5'-0" protection zone.

2. **Zoning / Parking / Emergency Vehicle Access:**
   a. Following our discussion we support the current plan to provide 5,000 – 7,000 GSF lots despite the city's current plan requiring 15,000 GSF lots.
   b. We expressed concern that the proposed new street was relatively narrow and allowed for parking on only one-side, and only for a portion of its entire length. We were told that the street is termed a private street and meets city and county requirements.

c. Concern was expressed that the proposed clear-roadway widths do not comply with Fire Apparatus Access Roads (FAAR) requirements. My understanding is that any FAAR that services a fire hydrant, must be a minimum of 26'-0" wide. (2019 Calif. Fire Code, Appendix D, Item D103.1). We were told that fire hydrants (3) are proposed but were accidentally omitted from being shown on the drawings.
d. We also discussed how parking issues stemming from the resulting density and limited parking might be resolved in the future, (i.e. private events staged by new ownership). To safeguard our interests we intend to place boulders along the edge of the road to dissuade overflow parking in front of our residence impacting our access.
e. We were told that the requirement for additional onsite parking for ADU's was omitted as a requirement.

3. Storm Water Treatment & Watershed:

a. Concern was expressed for the design of the new 450' long swale along my property line, which doesn't detail how it will impact our existing trees and garden vegetation. Also the swale detail does not show how it will be designed to prevent flooding into our parcel.
b. We discussed what measures could be implemented preventing home owners from filling in the swale where crossing their lots and defeating its purpose. We were told the issue would be addressed as part of a community entitlement agreement.

4. Traffic Impact Analysis and TDM Plan:

a. Parcel E designated as "C3" appears to be a 5'-0" deep bio-retention pond immediately constructed next to MCR which could prove to be a safety hazard to quarry and vehicle traffic. If installed at this location should a physical barrier be placed between it and the street for safety purposes rather than just installing a curb? I'm concerned that an accident in the street could cause careening vehicles at speed to hit the barrier be propelled into our property causing property or bodily injury.

5. Construction Noise Logistics & Construction Improvement Impacts:

a. We were given assurance that we would not be impacted by construction worker parking, off-loading of personnel and equipment, and temporary storage of materials, along our southern boundary or frontage on Mitchell Canyon Road.
b. We were told limitations would be placed on locations of placement of generators, compressors, radios, etc. to lessen noise impact to neighbors.
c. We were told that hours of construction would be limited to 7:00AM and 5:00PM weekdays. We are also asking that construction be prohibited during weekends and holidays.

d. We are that measures for dust and mud cleanup on the roadway, and garbage abatement are being implemented for construction. The same holds for water run-off and containment (SWPP) as a result of the construction process.
e. We were told that electrical facilities would be tapped from the OH 12kV line on the west side of MCR and electrical and communication facilities would be placed underground within the development.
f. Our main interest is as the project moves forward we hope to work with the Applicant, City and local utility providers to schedule and limit disruptions water, gas and electric services to my property.

6. Public Utilities / Sanitary Sewer:

a. We were told that large size sanitary sewer and water lines were required by and would be extended from the Mitchell Canyon Court/MCR intersection across the frontage of our property to the new development. Knowing that this will require a major excavation we're hoping that the sizing of these services will be large enough to accommodate any future development that could occur in our property and that a SS manhole be added as part this scope across the center of our lot.

7. Traffic Impact Analysis & TDM Plan:

Although not a requirement for this development I and some of my neighbors are concerned about the cumulative increase of vehicles and overt speeding on Mitchell Canyon Road that has occurred over the years. It seems that it is time for the city to implement some type of traffic calming/control measures other than parking unoccupied police cars in an attempt to control the posted 25 mph speed limit and limit vehicle noise.

The city has displayed a knee jerk reaction to when we first moved into the area. First dealing with the death of a school child who was killed by a quarry truck, to the latest incident involving a child on a scooter. The middle section of MCR in which we front seems to be the sector that truck and neighbors living at the upper end tend to speed. It's a unique 2-lane road that not only serves the existing neighborhoods, but a working quarry and a main entrance to Mt. Diablo State Park. During the week, we see a continuous progression of tractor-trailers (quarry), neighbor vehicle traffic and pedestrians walking the adjacent trial to the park. In busy times it's not uncommon to see trucks speed up to 45 - 50 MPH by the time they hit my frontage. During spring and summer weekends there is an abundance of motor traffic transporting horse trailers, trail bikes and bicycles as well as revelers coming from parties in the park. Traffic during weekends has seen similar over-speeding.

Also during the course of our residency we've seen when wildfires occur in and around MDSP, Mitchell Canyon Road is frequently shut-down and taken over by Cal-Fire for heavy equipment and fire fighter egress. You can now add construction deliveries and construction worker traffic to that as well.

We would expect that the city take action on how they are going to deal with these issues before future incidents occur.

- The California Environmental Quality Act (CEQA) requires comprehensive evaluation of traffic impacts associated with new developments, esp. as they relate to the new Vehicle Miles Traveled (VMT) criteria.
- Has the City or Applicant implemented this process?
- Has a consultant gathered car counts? These should be scheduled for times that capture both weekday and weekend traffic, special events, etc.
- With development comes expectation that added foot and bicycle traffic will occur along our frontage.

If there are Significant Impacts discovered during the TIA we expect the City to provide and pay for Mitigation Measures. I also understand that these Mitigations are typically reconciled through the Applicant's Transportation Management Plan (TDM). Please let me know if/how we may provide input to the development of the TDM as the project moves forward.

In closing we are in support of this project trusting the above issues can be managed to the satisfaction of the community.

If you have any questions or concerns we can be reached via telephone at (408-712-3255), (925) 812-2250 or at johnstice@johnstice.com.

Sincerely,

John Stice
895 Mitchell Canyon Road

Cc: Peter Cloven, Chair, Planning Commission
Julie Pierce, Mayor

TECHNICAL MEMORANDUM

Date: October 8, 2020

To: Nick Pappini

From: Chris D. Kinzel, P.E.
Vice President

Subject: ***Diablo Meadows Traffic Analysis***

TJKM was asked to prepare a focused traffic analysis of the proposed 18 unit single family residential development located on the west side of Mitchell Canyon Road about 400 feet north of the intersection of Herriman Drive and Mitchell Canyon Road. The development will be served by a single street providing direct access to all 18 units. For the purposes of this report, the new street is called Diablo Meadows Street.

Existing Conditions

Mitchell Canyon Road is a two lane road serving primarily single family residential units from Clayton Road to the south city limits of Clayton, a distance of about 4.25 miles. Mitchell Canyon Road also extends north of Clayton Road. Based on counts supplied by the City, the traffic count on Mitchell Canyon Road is 2,432 vehicles per day. The entrance to the Cemex Clayton Quarry is located about 1,800 feet south of the proposed development with a small residential development and vacant land in the intervening 1,800 feet. The Cemex site is actively used to supply building materials, primarily in large trucks. In an observation made on September 17, 2020 there were 80 trucks on Mitchell Canyon Road between 7 and 9 a.m. and 3 trucks between 4 to 6 p.m.

TJKM conducted peak hour traffic counts at the busiest nearby intersection, Mitchell Canyon Road and Pine Hollow Road to determine the peak hour levels of service. The intersection is located very close to the Mount Diablo Elementary School, which was closed due to COVID on September 17, 2020 when the counts were made. According to the Metropolitan Transportation Commission, traffic volumes are about 20 percent below pre-COVID periods. Prior to calculating the level of service at the intersection, TJKM applied a factor to increase measured volumes by 20 percent. However, it should be noted that due to the proximity of the school, observed traffic volumes in the morning peak hours are likely to be well below those that exist when the school is in full operation. The City was not able to supply any historic peak hour counts of this intersection. It is likely that the measured p.m. peak hour volumes around 5 p.m. are not heavily affected by the school closure and are more representative of typical conditions.

Project Trip Generation

TJKM utilized the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* to determine trip generation for the development. Using land use category, 210 -- Single Family, Detached, the following information was determined:

Daily rate = 9.44 trips/day x 18 units = 170 trips/day
A.M. rate = 0.74 trips/hour x 18 units = 14 trips/hour, 4 trips in, 10 trips out
P.M. rate = 0.99 trips/hour x 18 units = 18 trips/hour, 11 trips in, 7 trips out

These volumes were used to calculate the level of service at the new intersection of Mitchell Canyon Road and Diablo Meadows Street and to determine the changes in level of service at the existing intersection of Mitchell Canyon Road and Pine Hollow Road. The Expanded Existing conditions are existing measured traffic with a 20 percent increase to reflect the fact that traffic is reduced by that amount due to COVID conditions. As noted above, the Mitchell Canyon/Pine Hollow intersection will have higher traffic volumes in the a.m. periods when on-site school instruction resumes.

Level of Service Results

Location and Scenario	A.M.		P.M.	
	Delay, seconds	LOS	Delay, seconds	LOS
Mitchell Canyon and Pine Hollow				
Existing Conditions	7.9	A	8.9	A
Expanded Existing Conditions	8.1	A	9.6	A
Expanded Existing Conditions plus Project	8.2	A	9.7	A
Mitchell Canyon and Diablo Meadows				
Expanded Existing Conditions plus Project	1.0	A	0.2	A

The calculation sheets for the level of service are shown in the Appendix.

It can be seen that both intersections operate at very acceptable LOS A conditions during both a.m. and p.m. peak hours under all scenarios.

Traffic Signal Warrant Analysis

Neither intersection would benefit from the presence of traffic signals based on the findings of this study. Much higher traffic volumes are needed to justify traffic signals.

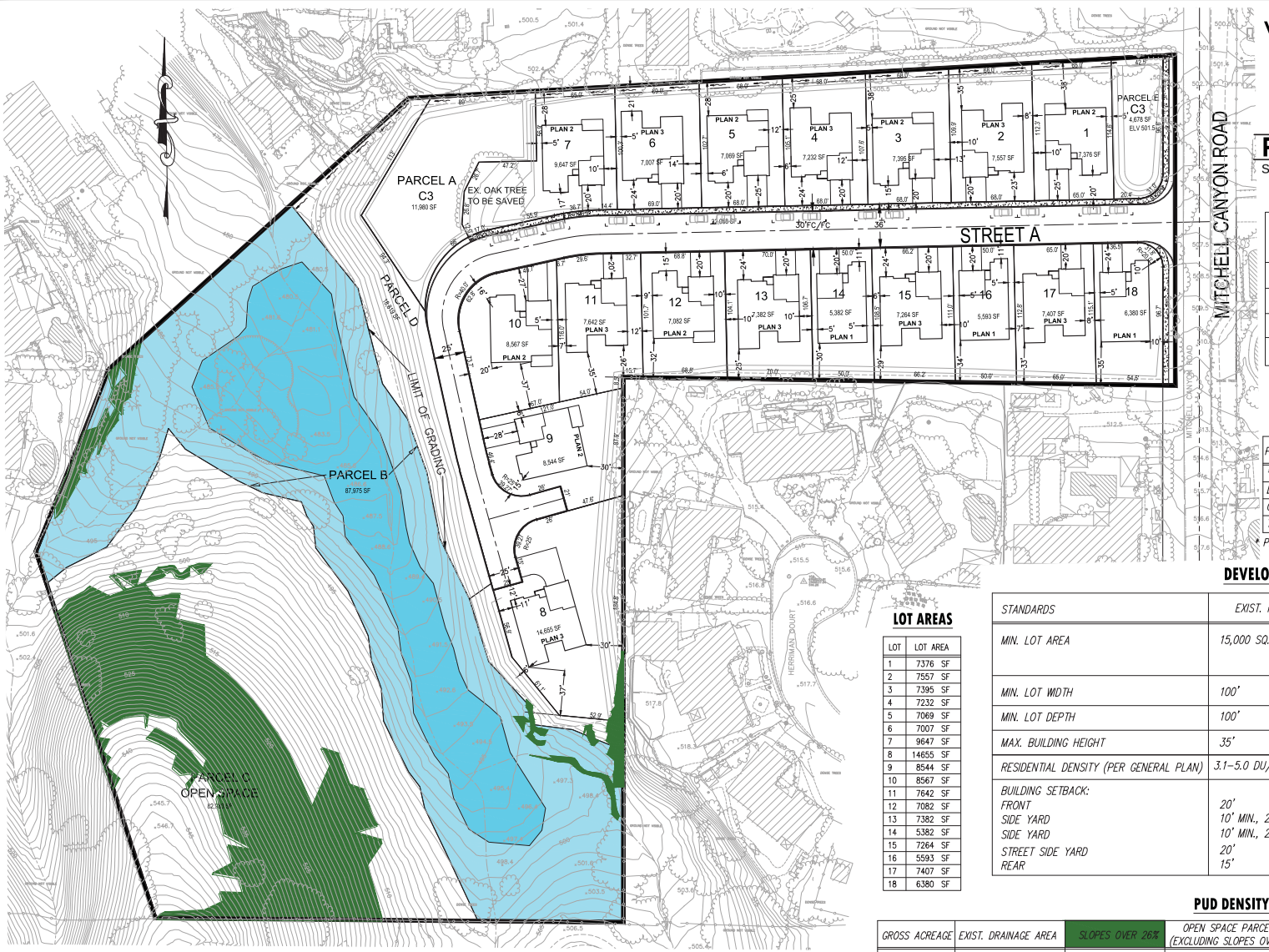
Conclusion

The Diablo Meadows project operates very acceptably and will have no discernable traffic impacts along Mitchell Canyon Road or any other location.

Please contact me if there are questions on this matter.

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9538
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY DEVELOPMENT PLAN
SCALE: AS SHOWN APRIL, 2020



PRELIMINARY DEVELOPMENT PLAN
SCALE: 1" = 40'

40 20 0 40 80 120
SCALE IN FEET

SUMMARY OF PRODUCT TYPE & SETBACKS

PLAN TYPE	NUMBER OF UNITS	MINIMUM SETBACKS			
		FRONT		SIDES	REAR
		LIVING AREA	GARAGE		
1	3	10'	20'	5'/5'	15'
2	7	10'	20'	5'/10'	15'
3	8	10'	20'	5'/10'	15'
TOTAL	18				

PARKING SUMMARY

PARKING TYPE	NUMBER OF SPACES
*ON STREET	15
DRIVEWAY	36
GARAGE	36
TOTAL	87

* PARALLEL PARKING DIMENSION IS 8'x22'

PARCEL AREAS

PARCEL	AREA	
A	0.28 AC	C3 BASIN
B	2.02 AC	EXIST. DRAINAGE AREA
C	1.91 AC	OPEN SPACE
D	0.43 AC	OPEN SPACE
E	0.11 AC	C3 BASIN
LOTS 1–18	3.19 AC	SINGLE FAMILY
STREET R/W	0.74 AC	
TOTAL	8.68 AC	

LOT AREAS

LOT	LOT AREA
1	7376 SF
2	7557 SF
3	7395 SF
4	7232 SF
5	7069 SF
6	7007 SF
7	9647 SF
8	14655 SF
9	8544 SF
10	8567 SF
11	7642 SF
12	7082 SF
13	7382 SF
14	5382 SF
15	7264 SF
16	5593 SF
17	7407 SF
18	6380 SF

DEVELOPMENT STANDARDS

STANDARDS	EXIST. R–15	PROPOSED (REZONE)
MIN. LOT AREA	15,000 SQ. FT.	5,000 SQ. FT (LOTS 14, 16 & 18) 7,000 SQ. FT (LOTS 1–13, 15 & 17 7,741 SQ. FT. (AVG)
MIN. LOT WIDTH	100'	50' (LOTS 14, 16 & 18 ONLY) TYPICAL LOT WIDTH APPROX. 65'
MIN. LOT DEPTH	100'	90' (TYPICAL LOT DEPTH APPROX. 100')
MAX. BUILDING HEIGHT	35'	35'
RESIDENTIAL DENSITY (PER GENERAL PLAN)	3.1–5.0 DU/NET ACRE (MD)	3.90 DU/NET ACRE
BUILDING SETBACK: FRONT SIDE YARD SIDE YARD STREET SIDE YARD REAR	 20' 10' MIN., 25' AGGREGATE 10' MIN., 25' AGGREGATE 20' 15'	 20' GAR / 10' LIVING AREA (VARIES BETWEEN 11'–24') 5' MIN., 10' AGGREGATE (LOTS 14, 16 & 18) 5' MIN., 15' AGGREGATE (LOTS 1–13, 15 & 17) 10' 15' (TYPICAL REAR SETBACK/YARD IS GREATER RHAN 20')

PUD DENSITY TABLE

GROSS ACREAGE	EXIST. DRAINAGE AREA	SLOPES OVER 26%	OPEN SPACE PARCEL C (EXCLUDING SLOPES OVER 26%)	*NET ACREAGE	NO. OF UNITS	DU/GROSS ACRE	DU/*NET ACRE
8.68± AC	2.02± AC	0.87± AC	1.17± AC	*4.62± AC	18	DU/AC	3.9 DU/AC

* NET ACREAGE INCLUDES STREETS, OPEN SPACE PARCEL D (AREAS LESS THAN 26% SLOPE), AND C–3 BASINS AREAS PER MUNI CODE 17.22

DATE: MARCH, 2020
SCALE:
DRAWN: TJB/YPS
DESIGNED: HK/TB
ENGINEER: JR/YS
MANAGER: HK

NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN REDICK No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
PRELIMINARY DEVELOPMENT PLAN
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. **C-5** OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-5 DEVELOPMENT PLAN.dwg Plot Date:7-17-20

Prepared by National Data & Surveying Services

Mitchell Canyon Rd & Pine Hollow Rd

Peak Hour Turning Movement Count

ID: 20-080122-001
City: Clayton

Day: Thursday
Date: 09/17/2020

PEAK HOURS	COUNT PERIODS
08:00 AM - 09:00 AM	07:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	04:00 PM - 06:00 PM

Mitchell Canyon Rd — SOUTHBOUND

AM	59	46	31	0	83	AM
NOON	0	0	0	0	0	NOON
PM	52	41	19	0	187	PM

Pine Hollow Rd — EASTBOUND

AM	NOON	PM		
89	0	81	⇦	
0	0	0	↶	0
36	0	138	↱	0
10	0	48	→	1
8	0	28	↴	0
AM	NOON	PM		

Pine Hollow Rd — WESTBOUND

PM	NOON	AM		
12	0	4	↰	0
12	0	5	←	1
0	0	0	↰	0
0	0	0	↶	0
69	0	41	⇨	
PM	NOON	AM		

Mitchell Canyon Rd — NORTHBOUND

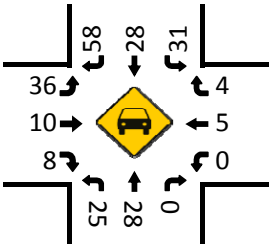
PM	69	0	17	37	2	PM
NOON	0	0	0	0	0	NOON
AM	54	0	25	43	0	AM

	⇩	↶	←	↑	↱
	0	0	1	0

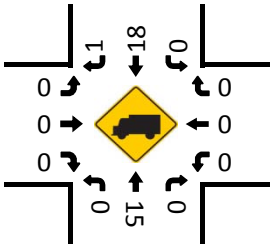
CONTROL: 4-Way Stop

TEV	267 AM	0 NOON	406 PM
PHF	0.95		0.92

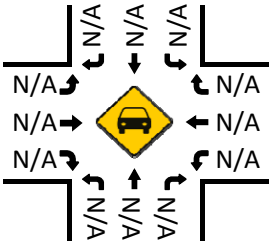
Cars (AM)



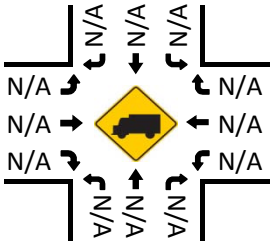
HT (AM)



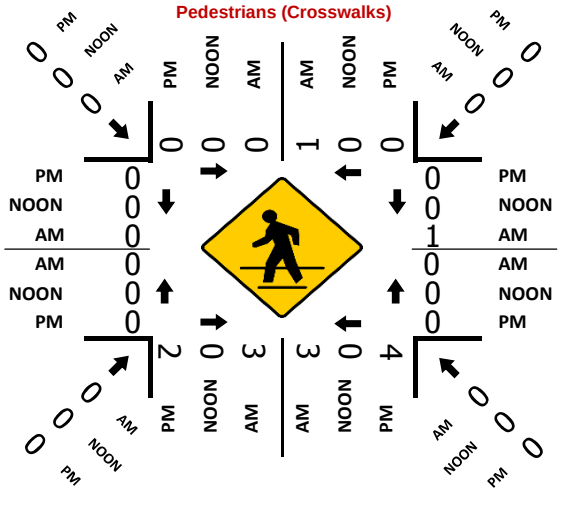
Cars (NOON)

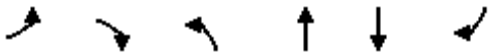


HT (NOON)



Pedestrians (Crosswalks)

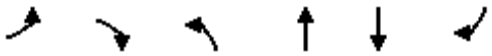

PM
NOON
AM
0
0
0
0
0
0
1
0
0
0
0
0
1
0
0
0
0
0
0
0
0



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	10	0	0	41	33	4
Future Volume (Veh/h)	10	0	0	41	33	4
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	11	0	0	45	36	4
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					373	
pX, platoon unblocked						
vC, conflicting volume	83	38	40			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	83	38	40			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	99	100	100			
cM capacity (veh/h)	919	1034	1570			

Direction, Lane #	EB 1	NB 1	SB 1
Volume Total	11	45	40
Volume Left	11	0	0
Volume Right	0	0	4
cSH	919	1570	1700
Volume to Capacity	0.01	0.00	0.02
Queue Length 95th (ft)	1	0	0
Control Delay (s)	9.0	0.0	0.0
Lane LOS	A		
Approach Delay (s)	9.0	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	1.0		
Intersection Capacity Utilization	13.3%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	2	0	0	34	42	11
Future Volume (Veh/h)	2	0	0	34	42	11
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	2	0	0	37	46	12
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					274	
pX, platoon unblocked						
vC, conflicting volume	89	52	58			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	89	52	58			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	912	1016	1546			

Direction, Lane #	EB 1	NB 1	SB 1
Volume Total	2	37	58
Volume Left	2	0	0
Volume Right	0	0	12
cSH	912	1546	1700
Volume to Capacity	0.00	0.00	0.03
Queue Length 95th (ft)	0	0	0
Control Delay (s)	9.0	0.0	0.0
Lane LOS	A		
Approach Delay (s)	9.0	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	0.2		
Intersection Capacity Utilization	13.3%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	43	12	10	0	6	5	30	62	0	37	59	71
Future Vol, veh/h	43	12	10	0	6	5	30	62	0	37	59	71
Peak Hour Factor	0.75	0.75	0.75	0.56	0.56	0.56	0.94	0.94	0.94	0.83	0.83	0.83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	57	16	13	0	11	9	32	66	0	45	71	86
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.3	7.5	8.1	8.3
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	33%	66%	0%	22%
Vol Thru, %	67%	18%	55%	35%
Vol Right, %	0%	15%	45%	43%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	92	65	11	167
LT Vol	30	43	0	37
Through Vol	62	12	6	59
RT Vol	0	10	5	71
Lane Flow Rate	98	87	20	201
Geometry Grp	1	1	1	1
Degree of Util (X)	0.121	0.112	0.024	0.228
Departure Headway (Hd)	4.454	4.648	4.418	4.083
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	807	773	811	881
Service Time	2.468	2.664	2.438	2.096
HCM Lane V/C Ratio	0.121	0.113	0.025	0.228
HCM Control Delay	8.1	8.3	7.5	8.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	0.4	0.1	0.9

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	43	12	10	0	6	5	30	52	0	37	55	71
Future Vol, veh/h	43	12	10	0	6	5	30	52	0	37	55	71
Peak Hour Factor	0.75	0.75	0.75	0.56	0.56	0.56	0.94	0.94	0.94	0.83	0.83	0.83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	57	16	13	0	11	9	32	55	0	45	66	86
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.2	7.5	8	8.2
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	66%	0%	23%
Vol Thru, %	63%	18%	55%	34%
Vol Right, %	0%	15%	45%	44%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	82	65	11	163
LT Vol	30	43	0	37
Through Vol	52	12	6	55
RT Vol	0	10	5	71
Lane Flow Rate	87	87	20	196
Geometry Grp	1	1	1	1
Degree of Util (X)	0.108	0.111	0.024	0.222
Departure Headway (Hd)	4.456	4.613	4.383	4.077
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	807	779	818	886
Service Time	2.469	2.629	2.401	2.077
HCM Lane V/C Ratio	0.108	0.112	0.024	0.221
HCM Control Delay	8	8.2	7.5	8.2
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	0.4	0.1	0.8

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		✣			✣			✣			✣	
Traffic Vol, veh/h	36	10	8	0	5	4	25	43	0	31	46	59
Future Vol, veh/h	36	10	8	0	5	4	25	43	0	31	46	59
Peak Hour Factor	0.75	0.75	0.75	0.56	0.56	0.56	0.94	0.94	0.94	0.83	0.83	0.83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	48	13	11	0	9	7	27	46	0	37	55	71
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8	7.3	7.8	7.9
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	67%	0%	23%
Vol Thru, %	63%	19%	56%	34%
Vol Right, %	0%	15%	44%	43%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	68	54	9	136
LT Vol	25	36	0	31
Through Vol	43	10	5	46
RT Vol	0	8	4	59
Lane Flow Rate	72	72	16	164
Geometry Grp	1	1	1	1
Degree of Util (X)	0.086	0.09	0.019	0.179
Departure Headway (Hd)	4.287	4.505	4.26	3.927
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	823	800	845	901
Service Time	2.378	2.506	2.261	2.007
HCM Lane V/C Ratio	0.087	0.09	0.019	0.182
HCM Control Delay	7.8	8	7.3	7.9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.3	0.1	0.6

Intersection	
Intersection Delay, s/veh	9.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	166	58	34	0	14	14	20	51	2	23	60	62
Future Vol, veh/h	166	58	34	0	14	14	20	51	2	23	60	62
Peak Hour Factor	0.84	0.84	0.84	0.66	0.66	0.66	0.76	0.76	0.76	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	198	69	40	0	21	21	26	67	3	25	65	67
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.6	7.9	8.8	8.9
HCM LOS	B	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	27%	64%	0%	16%
Vol Thru, %	70%	22%	50%	41%
Vol Right, %	3%	13%	50%	43%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	73	258	28	145
LT Vol	20	166	0	23
Through Vol	51	58	14	60
RT Vol	2	34	14	62
Lane Flow Rate	96	307	42	158
Geometry Grp	1	1	1	1
Degree of Util (X)	0.132	0.393	0.054	0.203
Departure Headway (Hd)	4.963	4.603	4.575	4.629
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	719	780	778	772
Service Time	3.013	2.642	2.63	2.673
HCM Lane V/C Ratio	0.134	0.394	0.054	0.205
HCM Control Delay	8.8	10.6	7.9	8.9
HCM Lane LOS	A	B	A	A
HCM 95th-tile Q	0.5	1.9	0.2	0.8

Intersection	
Intersection Delay, s/veh	9.6
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	166	58	34	0	14	14	20	44	2	23	49	62
Future Vol, veh/h	166	58	34	0	14	14	20	44	2	23	49	62
Peak Hour Factor	0.84	0.84	0.84	0.66	0.66	0.66	0.76	0.76	0.76	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	198	69	40	0	21	21	26	58	3	25	53	67
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.5	7.8	8.7	8.7
HCM LOS	B	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	64%	0%	17%
Vol Thru, %	67%	22%	50%	37%
Vol Right, %	3%	13%	50%	46%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	66	258	28	134
LT Vol	20	166	0	23
Through Vol	44	58	14	49
RT Vol	2	34	14	62
Lane Flow Rate	87	307	42	146
Geometry Grp	1	1	1	1
Degree of Util (X)	0.119	0.388	0.053	0.186
Departure Headway (Hd)	4.942	4.55	4.514	4.59
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	723	789	790	779
Service Time	2.987	2.585	2.563	2.629
HCM Lane V/C Ratio	0.12	0.389	0.053	0.187
HCM Control Delay	8.7	10.5	7.8	8.7
HCM Lane LOS	A	B	A	A
HCM 95th-tile Q	0.4	1.8	0.2	0.7

Intersection	
Intersection Delay, s/veh	8.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	138	48	28	0	12	12	17	37	2	19	41	52
Future Vol, veh/h	138	48	28	0	12	12	17	37	2	19	41	52
Peak Hour Factor	0.84	0.84	0.84	0.66	0.66	0.66	0.76	0.76	0.76	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	164	57	33	0	18	18	22	49	3	21	45	57
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

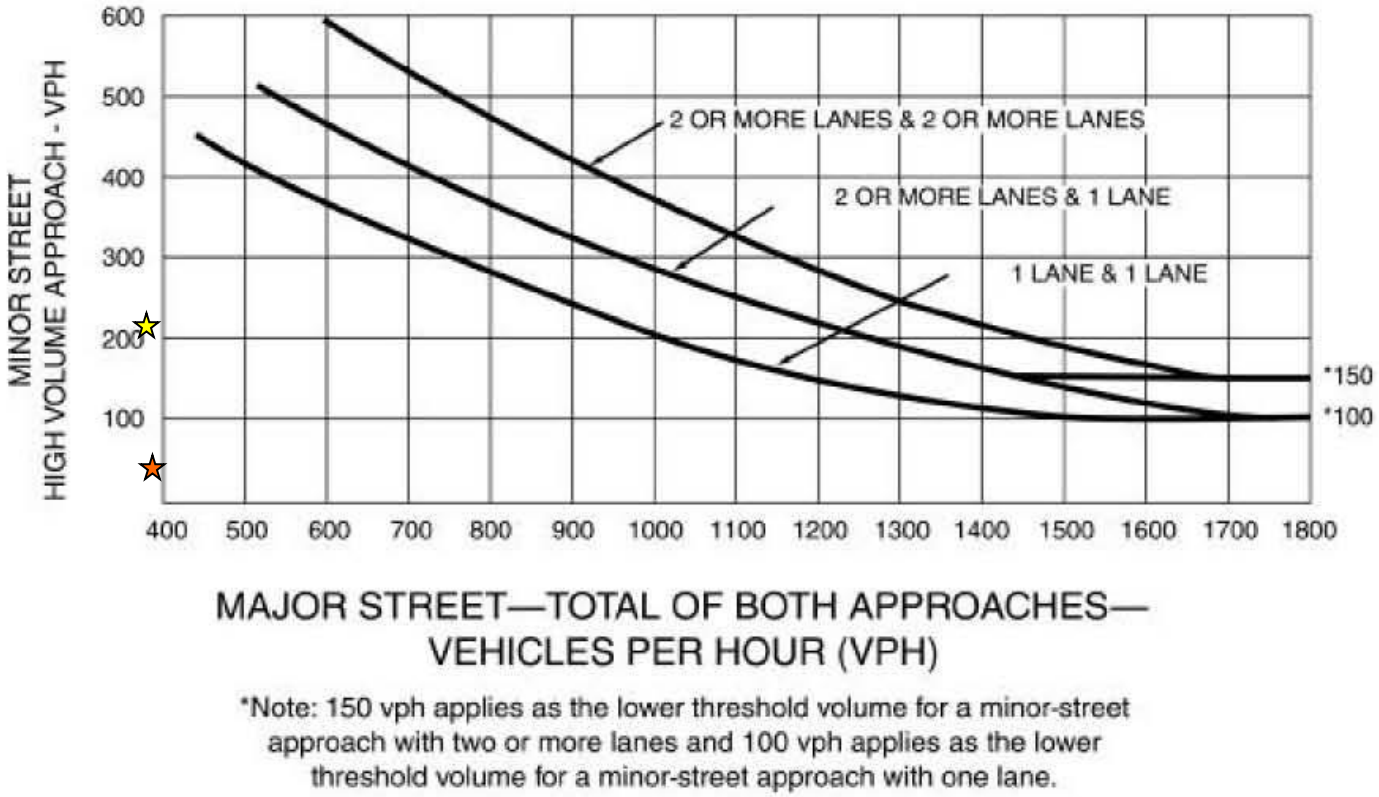
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.5	7.6	8.3	8.2
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	64%	0%	17%
Vol Thru, %	66%	22%	50%	37%
Vol Right, %	4%	13%	50%	46%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	56	214	24	112
LT Vol	17	138	0	19
Through Vol	37	48	12	41
RT Vol	2	28	12	52
Lane Flow Rate	74	255	36	122
Geometry Grp	1	1	1	1
Degree of Util (X)	0.097	0.314	0.044	0.149
Departure Headway (Hd)	4.753	4.444	4.34	4.418
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	754	810	824	812
Service Time	2.781	2.465	2.369	2.443
HCM Lane V/C Ratio	0.098	0.315	0.044	0.15
HCM Control Delay	8.3	9.5	7.6	8.2
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	1.3	0.1	0.5

Peak Hour Warrant (Urban Areas)

Intersection #1: Mitchell Canyon Rd and Pine Hollow Rd, City of Clayton, CA
Scenario: Existing Conditions

Figure 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Minor Street Volume = 54 (214) VPH

Major Street Volume = 204 (168) VPH

★ ***AM Peak Hour***

★ ***PM Peak Hour***

A signal is NOT warranted in either Peak Hour

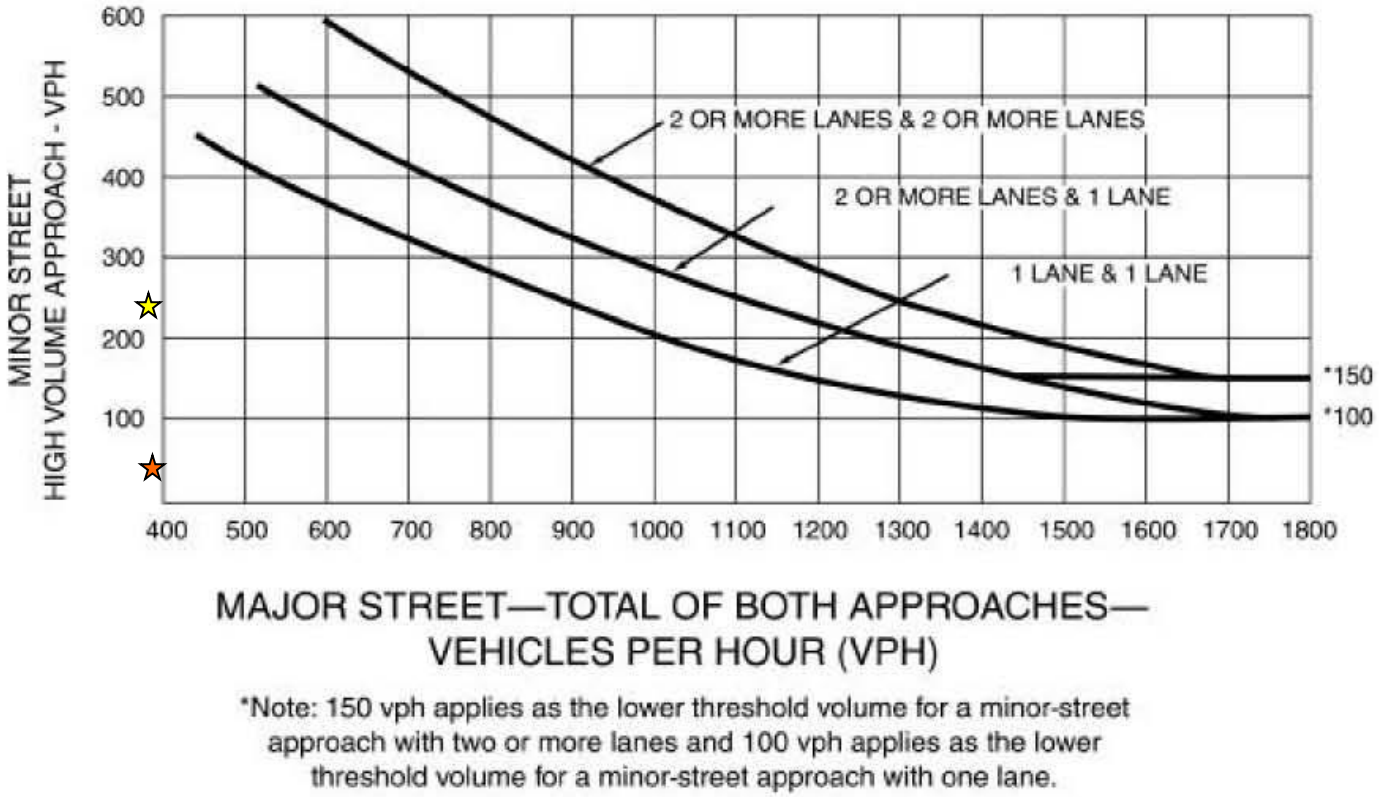
Source: CA MUTCD 2014, Chapter 4C – Traffic Control Signal Needs Studies, Part 4 - Highway Traffic Signals, Figure 4C-3

TJKM

Peak Hour Warrant (Urban Areas)

Intersection #1: Mitchell Canyon Rd and Pine Hollow Rd, City of Clayton, CA
Scenario: Expanded Existing Conditions

Figure 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Minor Street Volume = 65 (258) VPH

Major Street Volume = 245 (200) VPH

★ ***AM Peak Hour***

★ ***PM Peak Hour***

A signal is NOT warranted in either Peak Hour

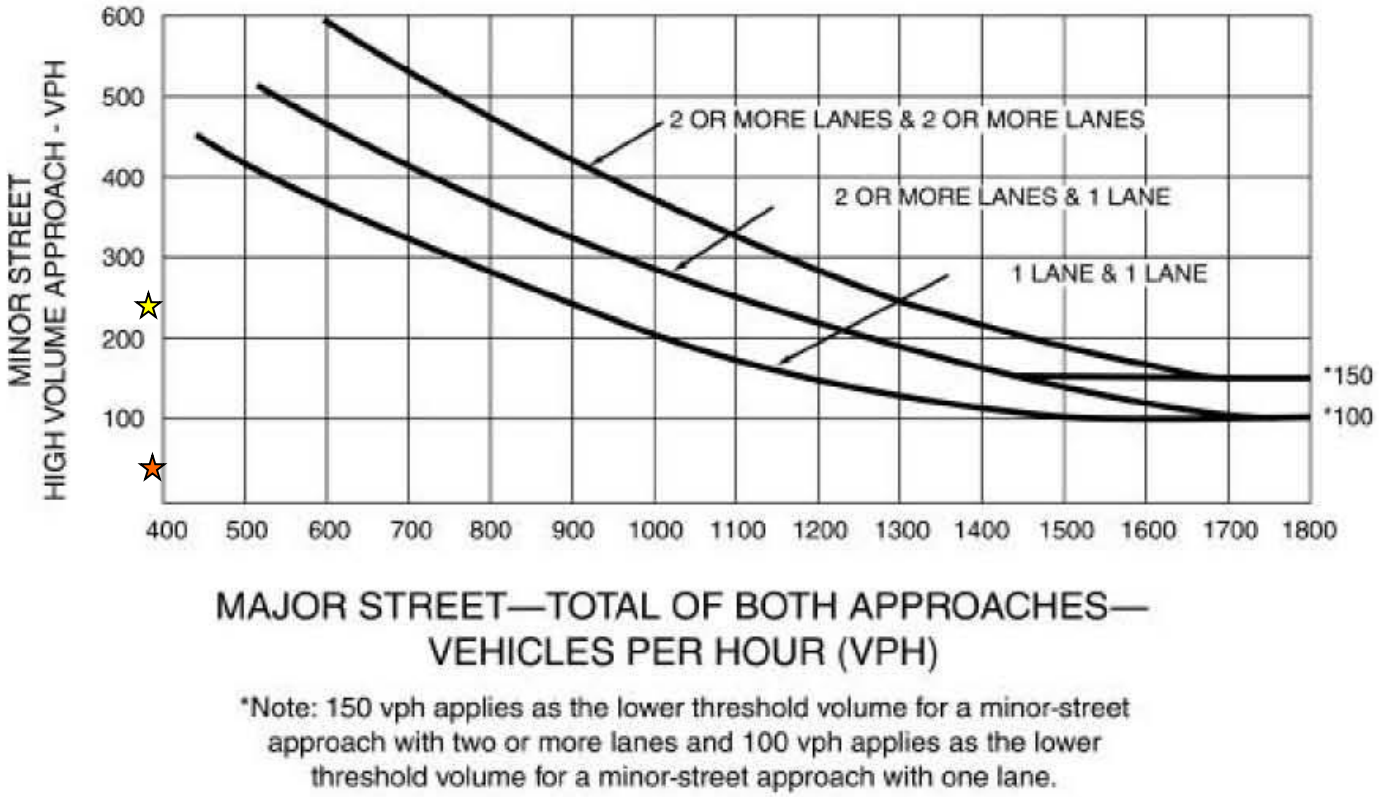
Source: CA MUTCD 2014, Chapter 4C – Traffic Control Signal Needs Studies, Part 4 - Highway Traffic Signals, Figure 4C-3

TJKM

Peak Hour Warrant (Urban Areas)

Intersection #1: Mitchell Canyon Rd and Pine Hollow Rd, City of Clayton, CA
Scenario: Expanded Existing plus Project Conditions

Figure 4C-3. Warrant 3, Peak Hour



Minor Street Volume = 65 (258) VPH

Major Street Volume = 259 (218) VPH

★ ***AM Peak Hour***

★ ***PM Peak Hour***

A signal is NOT warranted in either Peak Hour

Source: CA MUTCD 2014, Chapter 4C – Traffic Control Signal Needs Studies, Part 4 - Highway Traffic Signals, Figure 4C-3

TJKM

Diablo Meadows Project
Initial Study/Mitigated Negative Declaration
ENV-01-2020

CITY OF CLAYTON

Founded 1857 .. Incorporated 1964

City of Clayton
Community Development Department
6000 Heritage Trail
Clayton, California 94517
(925) 673-7340

September 2020

TABLE OF CONTENTS

INTRODUCTION **1**

PROJECT/APPLICANT INFORMATION **2**

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED **3**

ENVIRONMENTAL CHECKLIST **3**

DETERMINATION **5**

BACKGROUND **5**

PROJECT DESCRIPTION **6**

LIST OF MITIGATION MEASURES **18**

EVALUATION OF ENVIRONMENTAL IMPACTS **25**

1. AESTHETICS. *25*
2. AGRICULTURE RESOURCES. *29*
3. AIR QUALITY. *31*
4. BIOLOGICAL RESOURCES. *41*
5. CULTURAL RESOURCES. *61*
6. ENERGY *64*
7. GEOLOGY AND SOILS. *68*
8. GREENHOUSE GAS EMISSIONS *74*
9. HAZARDS AND HAZARDOUS MATERIALS. *82*
10. HYDROLOGY AND WATER QUALITY *88*
11. LAND USE. *95*
12. MINERAL RESOURCES. *97*
13. NOISE. *98*
14. POPULATION AND HOUSING. *102*
15. PUBLIC SERVICES. *104*
16. RECREATION. *107*
17. TRANSPORTATION. *108*
18. TRIBAL CULTURAL RESOUCES *112*
19. UTILITIES AND SERVICE SYSTEMS. *114*
20. WILDFIRE. *118*
21. MANDATORY FINDINGS OF SIGNIFICANCE. *121*

STAFF AND SOURCES **124**

TABLES

Table 1 BAAQMD Thresholds of Significance 32
Table 2 Maximum Construction Emissions (lbs/day) 33
Table 3 Unmitigated Maximum Operational Emissions 34
Table 4 Operational GHG Emissions 76

Table 5 Project Consistency with the 2017 Scoping Plan 76
Table 6 Vibration Source Levels for Construction Equipment 99
Table 7 Weekday Project Trip Generation Rates and Estimates 109

FIGURES

Figure 1: Regional Location Map 7
Figure 2 Project Site 8
Figure 3 Vesting Tentative Subdivision Map 10
Figure 4 Preliminary Development Plan 11
Figure 5 Preliminary Landscaping Plan 13
Figure 6 Common Area Landscape Plan 15
Figure 7 Preliminary Grading and Drainage Plan 16
Figure 8 Preliminary Utility Plan 17
Figure 9 Field Verified Landcover Map 43
Figure 10 Wetland Delineation 53
Figure 11 Tree Exhibit 57
Figure 12 Stromwater Control Plan 91

APPENDICES

Appendix A: CalEEMod Modeling Results
Appendix B: Planning Survey Report
Appendix C: Geotechnical Investigation
Appendix D: Phase 1 Environmental Site Assessment

INTRODUCTION

DeNova Homes, Inc., has proposed to subdivide a portion of an 8.68-acre site into 18 single-family residential lots. The project site is bound by single-family homes to the north, northwest, south and east. Mitchell Canyon Road borders the project site to the east, and the CEMEX Clayton Quarry is located approximately 1,000 feet to the south of the site. Clayton city limits border the southern and western boundaries of the project site.

This Initial Study/Mitigated Negative Declaration (IS/MND) identifies potentially significant environmental impacts for the following environmental areas:

- Biological Resources;
- Cultural Resources;
- Geology and Soils;
- Hazards and Hazardous Materials; and
- Noise.

Environmental analysis determined that measures were available to mitigate potential adverse impacts to insignificant levels. As a result, a Mitigated Negative Declaration has been prepared pursuant to Public Resources Code Section 21064.5, and Article 6 of the California Environmental Quality Act (CEQA) Guidelines.

Pursuant to the requirements of CEQA Guidelines Section 15071, this Mitigated Negative Declaration describes the proposed project; identifies, analyzes, and evaluates the potential significant environmental impacts, which may result from the proposed project; and identifies measures to mitigate adverse environmental impacts. With implementation of the included mitigation measures, the project would not have a significant impact on the environment.

PROJECT/APPLICANT INFORMATION

1.	Project Title:	Diablo Meadows Project
2.	Lead Agency Name and Address:	City of Clayton 6000 Heritage Trail Clayton, CA 94517
3.	Contact Person and Phone Number:	Matthew Feske Community Development Director City of Clayton (925) 673-7343
4.	Project Location:	West of Mitchell Canyon Road and north of Herriman Court Clayton, CA 94517
5.	Project Sponsor's Name and Address:	DeNova Homes, Inc. 1500 Willow Pass Court Concord, CA 94520 Contact: Kerri Watt
6.	Existing General Plan Designation:	Single-Family Medium Density (MD)
7.	Existing Zoning Designation:	Single-Family Residential (R-15)
8.	Proposed Zoning Designation:	Planned Development (PD)

9. Project Description Summary:

The proposed project would include subdivision of the site and subsequent development of 18 single-family residential units and three accessory dwelling units (ADUs) on 18 lots within the easterly portion of an 8.68-acre subject property, while five additional parcels would be used for stormwater retention or maintained as open space, and a street right-of-way. Access to the site would be provided by a proposed private street connected to Mitchell Canyon Road, which would terminate in a turnaround. Approximately 4.36 acres of the project site would be preserved as open space. City of Clayton entitlements include a Rezone, a Development Plan Permit, a Vesting Tentative Map, Site Plan Review, and a Tree Removal Permit.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project. The following Evaluation of Environmental Impacts identifies at least one impact that is "Less Than Significant with Mitigation Incorporated" for each of the checked environmental factors.

☐ **Aesthetics**	☐ **Agriculture and Forest Resources**	☐ **Air Quality**
✖ **Biological Resources**	✖ **Cultural Resources**	☐ **Energy**
✖ **Geology and Soils**	☐ **Greenhouse Gas Emissions**	✖ **Hazards and Hazardous Materials**
☐ **Hydrology and Water Quality**	☐ **Land Use and Planning**	☐ **Mineral Resources**
✖ **Noise**	☐ **Population and Housing**	☐ **Public Services**
☐ **Recreation**	☐ **Transportation**	☐ **Tribal Cultural Resources**
☐ **Utilities and Service Systems**	☐ **Wildfire**	☐ **Mandatory Findings of Significance**

ENVIRONMENTAL CHECKLIST

The following checklist contains the environmental checklist form presented in Appendix G of the CEQA Guidelines. The checklist form is used to describe the impacts of the proposed project. A discussion follows each environmental issue identified in the checklist. For this checklist, the following designations are used:

Potentially Significant Impact: An impact that could be significant, and for which no mitigation has been identified. If any potentially significant impacts are identified, an EIR must be prepared.

Less Than Significant with Mitigation Incorporated: An impact that requires mitigation to reduce the impact to a less-than-significant level.

Less-Than-Significant Impact: Any impact that would not be considered significant under CEQA relative to existing standards.

No Impact: The project would not have any impact.

As noted in Section 21002.1 of the California Public Resources Code, "[t]he purpose of an environmental impact report is to identify the significant effects on the environment of a project[.]" Consequently, the scope of analysis prepared for a proposed project under CEQA is only required to consider whether implementation of the proposed project would create new impacts on the environment, and such analyses are not required to demonstrate whether effects from existing environmental conditions would occur on the project. The focus of CEQA on a project's impacts to the environment were confirmed by the California Supreme Court decision in the case of *California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal. 4th 369*. The decision clarified that CEQA does not require lead agencies to analyze the impact of existing environmental conditions on a project's future users or residents unless the project will exacerbate the existing environmental hazards or conditions. In the case of the proposed project, the focus of CEQA on a project's impacts on the environment limits the degree to which this

CEQA analysis may address impacts that could result from existing environmental conditions on future residents. This important distinction particularly relates to on-going operations of the CEMEX quarry plant, and associated heavy-duty haul truck trips along Mitchell Canyon Road. The operations of the CEMEX quarry plant represent an existing condition of the environmental setting for the project, and implementation of the proposed project would not have the potential to alter the existing CEMEX operations or exacerbate the potential for impacts to occur due to the CEMEX quarry plant operations. Due to the focus of CEQA on a project's potential impacts on the environment, not the environment's potential effect on a project, potential effects that could be experienced by future on-site residents due to CEMEX operations, such as excess noise and vibration, traffic congestion, or exposure to air pollutants, are not within the purview of CEQA analysis. Such issues will be considered by City staff, as may be warranted, during the planning review of the project, and included within the Staff Report prepared for the proposed project.

Per Public Resources Code Section 21002.1, the analysis contained herein focuses on the potential for the proposed project to result in impacts on the environment.

DETERMINATION

On the basis of this initial evaluation:

☐ I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

X I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case since the Project proponent has made revisions in the Project and has agreed to the mitigation measures listed in "Section V. List of Mitigation Measures." I further find that the mitigation measures and the information in this study constitute a MITIGATED NEGATIVE DECLARATION in accordance with Section 15071 of the State CEQA Guidelines.

☐ I find that the Proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature Date

Matthew Feske
Community Development Director

BACKGROUND

This IS/MND identifies and analyzes the potential environmental impacts of the current proposal for the Diablo Meadows Project. The information and analysis presented in this document is organized in accordance with the order of the CEQA checklist in Appendix G of the CEQA Guidelines. If the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures that must be applied to the project are prescribed.

This IS/MND relies on site-specific studies prepared for the project, as well as information provided in the City of Clayton General Plan and associated EIR.

PROJECT DESCRIPTION

A description of the project location and setting, the components of the project, and discretionary actions is provided below.

Site Location and Setting

The project site consists of two parcels constituting 8.68 acres of land located west of Mitchell Canyon Road and north/west of Herriman Court in the City of Clayton, California (see Figure 1 and Figure 2). The site is identified by Assessor's Parcel Numbers (APN) 121-090-011-2 and 121-090-016-1. Clayton city limits border the southern and western boundaries of the project site; thus, the project site is within the city limits of Clayton, but the areas south and west of the project site are outside city limits, within an unincorporated portion of Contra Costa County. A portion of the site's northwestern property line is bordered by the City of Concord. The site is designated Single-Family Medium Density (MD) per the City of Clayton General Plan and zoned Single-Family Residential (R-15).

The approximately 4.32-acre development area abuts Mitchell Canyon Road and is dominated by annual grassland, but also consists of moderate growths of trees and shrubs. A shed and water well are located within the northwestern corner of the development area. The development area is generally flat with a gentle downward slope towards the west. In comparison, the 4.36-acre open space area, located within the western portion of the project site, would not be developed and contains a seasonal wetland feature and an ephemeral stream which flows south to north. Generally, the terrain within the open space area slopes steeply downward towards the north. Figure 2 depicts the project site, including the development area and the areas to be preserved as open space.

<u>Surrounding Land Uses</u>

The project site is bordered primarily by single-family residences to the northwest, north, and east and south, while vacant land borders the project site to the west and southwest. Clayton city limits border the western and southern boundaries of the project site. A CEMEX quarry plant is located approximately 1,000 feet south, just beyond the vacant land bordering the project site.

Figure 1
Regional Location Map

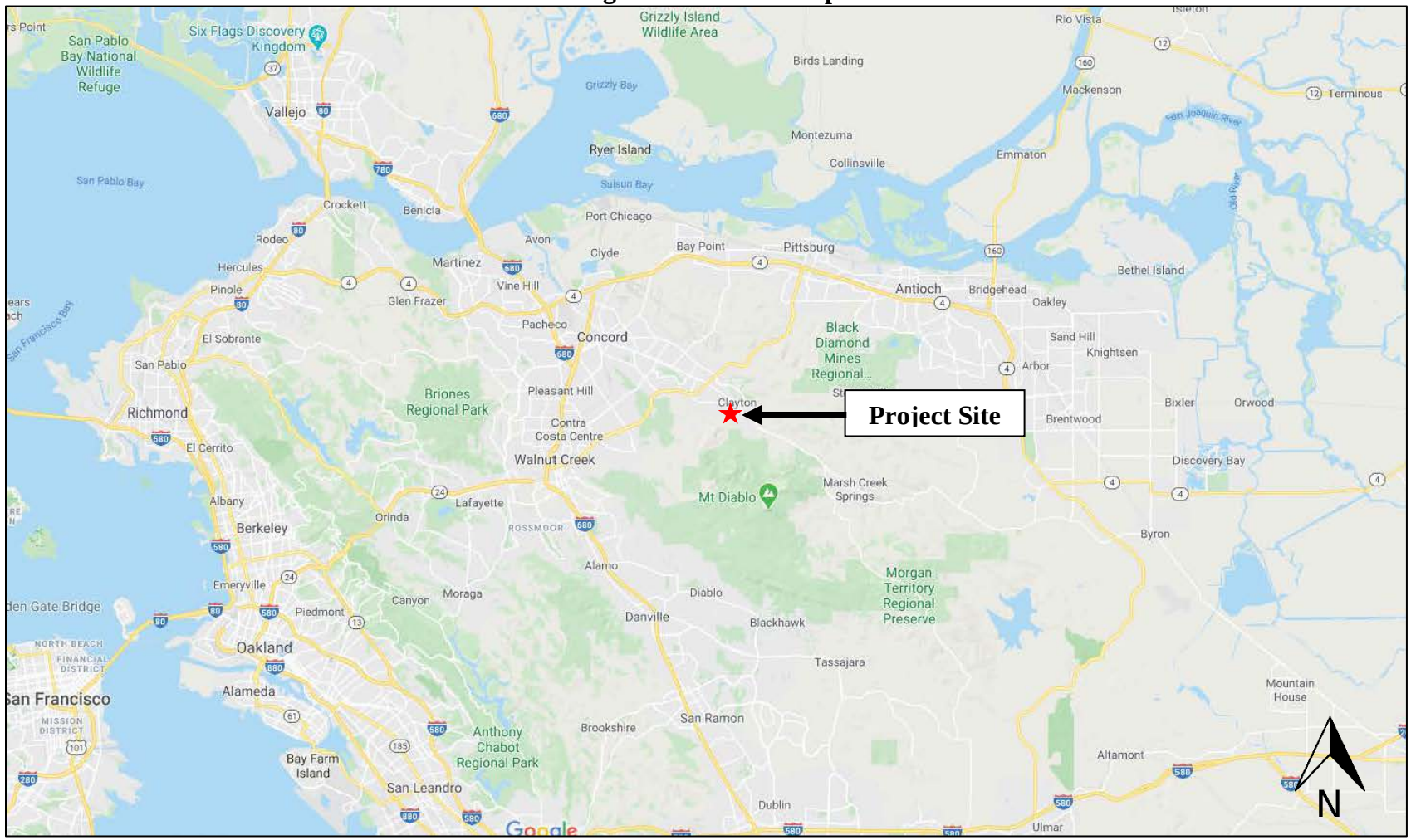


Figure 2
Project Site



**Boundaries approximate.*

Project Components

The proposed project would include grading of the development area and subsequent construction of 18 single-family, one-story residences and three ADUs on the 18 lots. The density of the proposed project would be approximately 3.9 dwelling units per acre (du/ac), which would be consistent with the current General Plan density allowance for the site (3.1 to 5.0 du/ac). The proposed residences would be accessed by a new private internal roadway connecting to Mitchell Canyon Road, which would terminate in a turnaround in accordance with East Contra Costa Fire Protection District standards. The proposed residences would be "clustered" so as to avoid grading or development on the steeper slopes and drainage features located within the open space area.

The proposed project would require approval of a Rezone, a Development Plan Permit, a Vesting Tentative Map, Site Plan Review, and a Tree Removal Permit. Each of the project components is discussed in detail below. With respect to meeting the City's affordable housing requirements, the proposed project would develop Lot 18 as affordable housing to satisfy the City's requirement for ten percent below-market rate homes. The primary home would be deed-restricted for rent to a moderate-income household, while an ADU would be deed-restricted for rent to a low-income household. Rental of the two units on Lot 18 would be managed by the Yellow-Roof Foundation, a non-profit public charity.

Rezone

The project site is currently zoned R-15. An R-15 zoning designation stipulates a minimum lot size of 15,000 square feet (sf), which would allow for up to 25 lots on the 8.68-acre project site. However, due to the steep topography and sensitive environmental features within the western portion of the project site, residential development would only be feasible on approximately 4.62 acres of the project site. Buildout pursuant to the current zoning designation would result in 11 residential units and would not meet the City's designated General Plan density range of 3.1-5.0 du/ac. Development of the project site with 18 single-family residential units would result in a proposed density of 3.9 du/ac. Therefore, the proposed project would satisfy the current land use density requirements with the approval of a request to Rezone the entire site from R-15 to Planned Development (PD) to allow for reduced lot sizes and setbacks.

Vesting Tentative Subdivision Map

The proposed Vesting Tentative Subdivision Map would subdivide the project site into 18 single-family residential lots, five parcels for stormwater retention and open space uses, and a street right-of-way (see Figure 3 and Figure 4). Parcels A and E would contain the two bio-retention basins, while Parcels B, C, and D, which consist of a total of 4.36 acres, would contain the open space area, inclusive of the existing seasonal wetland and ephemeral stream segments.

Figure 3
Vesting Tentative Subdivision Map

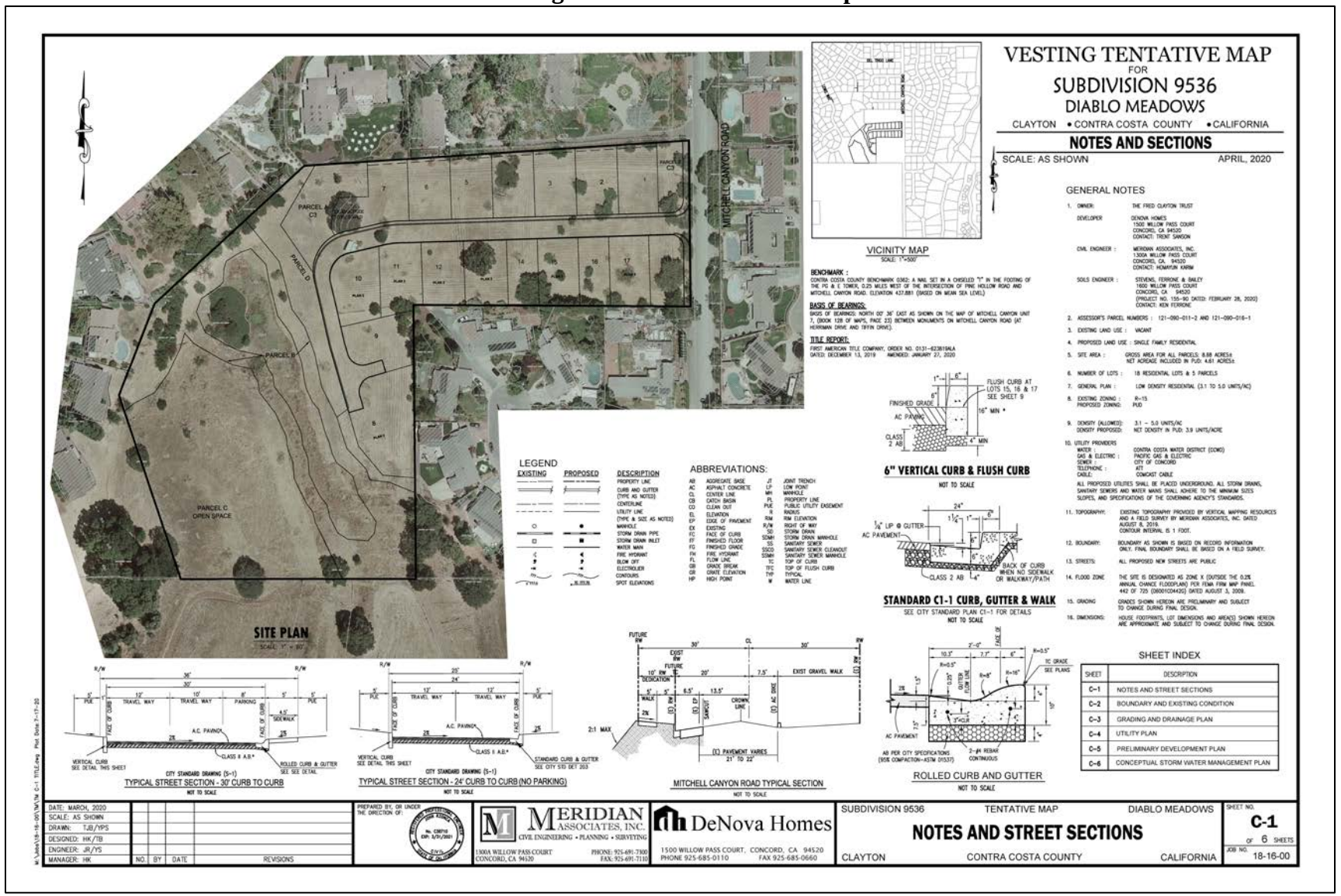
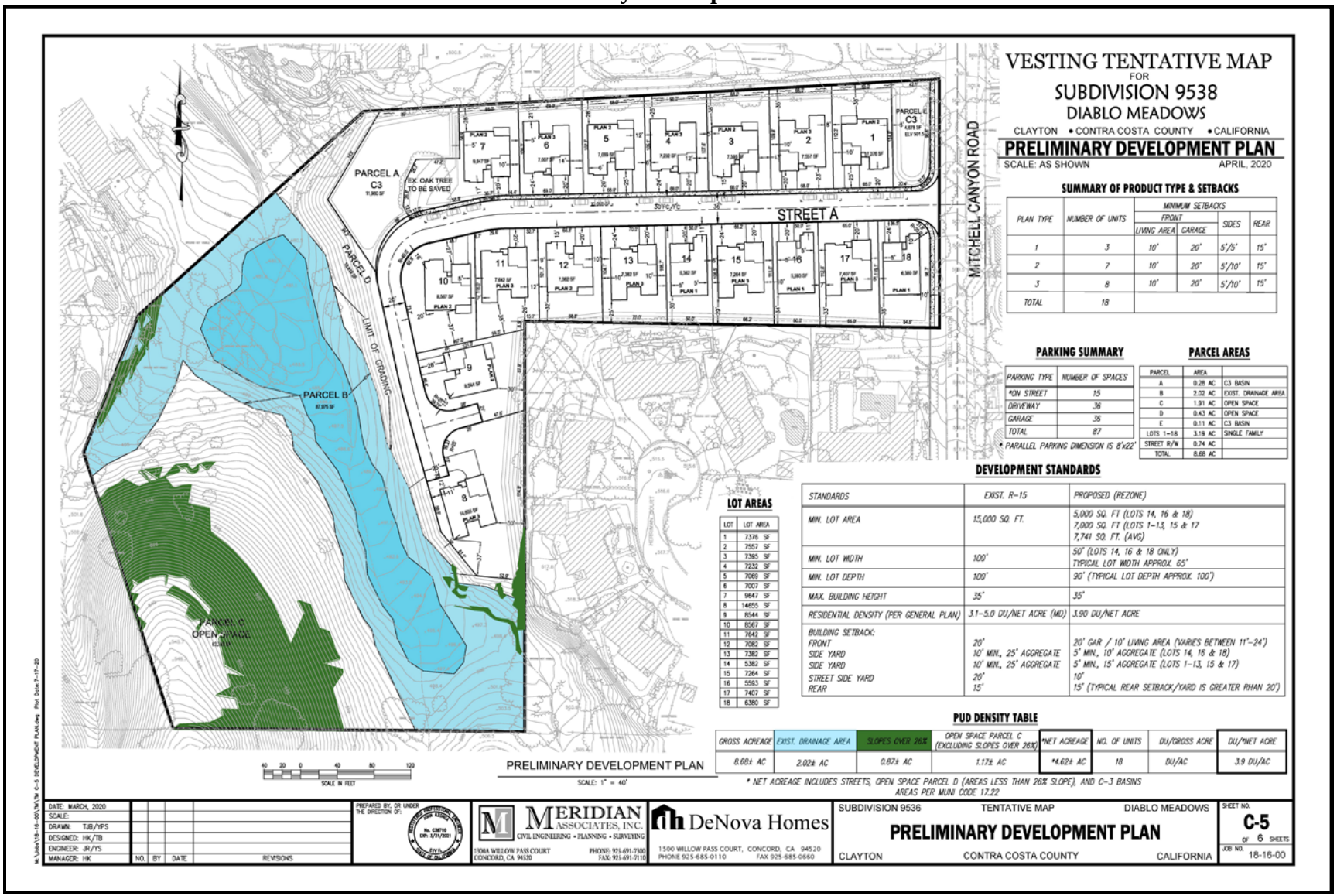


Figure 4
Preliminary Development Plan



Access to the site would be provided by a new private roadway from Mitchell Canyon Road along the eastern border of the project site, which would terminate in a turnaround. A proposed sidewalk would be provided along the project's Mitchell Creek Road frontage and along the northern side of the internal street. The open space area of the project site, which contains steep topography, a seasonal wetland, and a drainage channel, would be preserved in perpetuity and would not be affected by grading or construction activities.

Development Plan Permit

As discussed previously, the project site would be rezoned to PD, which would require a Development Plan Permit. Development Plan considerations include, but are not limited to, architecture and landscaping, grading, and on- and off-site improvements, including utilities.

Architecture

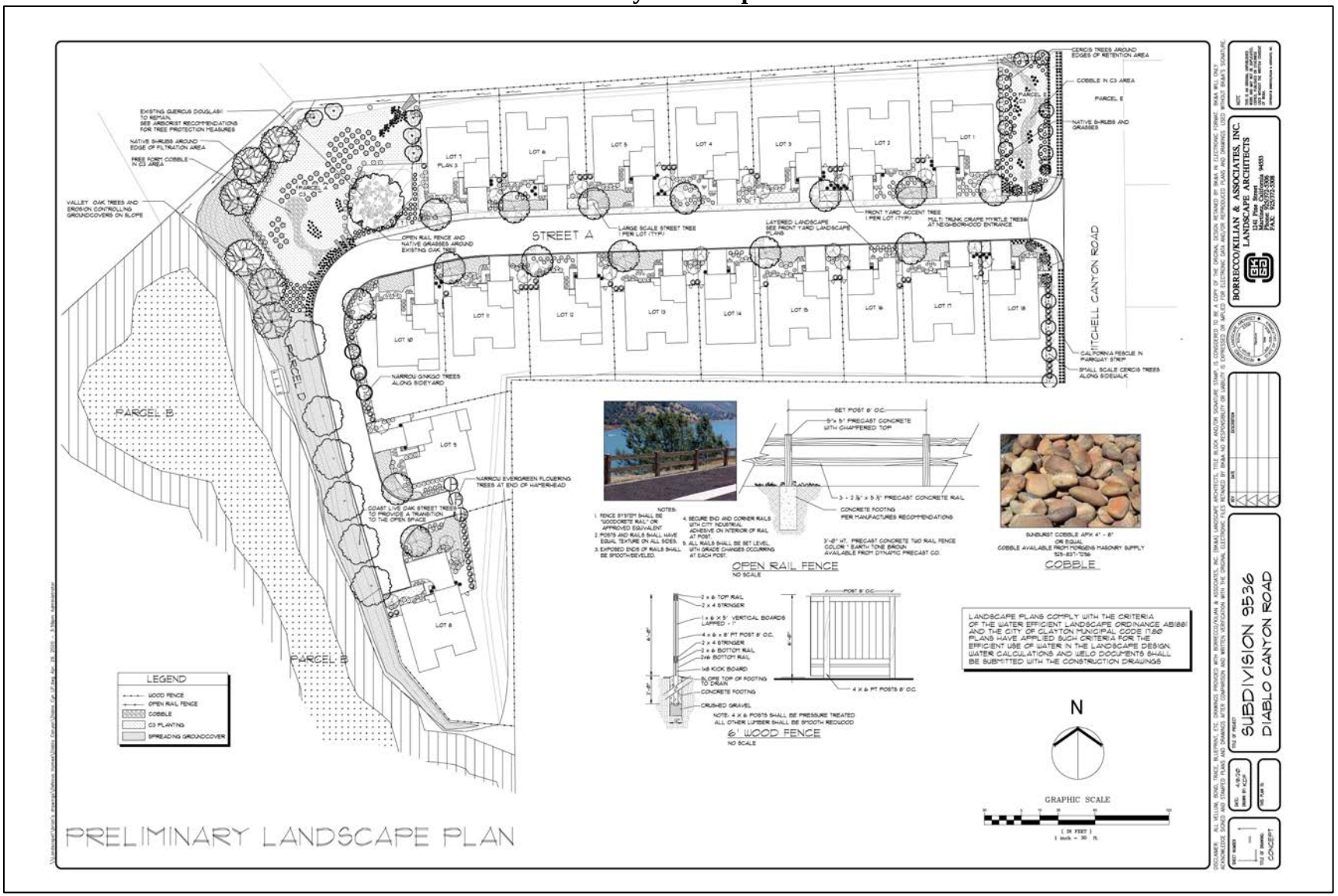
Several different floor plans and architectural styles are planned for the proposed residences. Three homes are proposed to have three bedrooms, two bathrooms, a two-car garage, with an approximately 347-sf ADU. The ADUs would be designed as studios that offer complete independent living amenities, including a living area, kitchen (including a full range and oven, refrigerator, and sink), a separate sleeping area and bathroom, and a stacked washer-dryer area. Seven homes would have either three bedrooms and 2.5 bathrooms, or four bedrooms with three bathrooms, and two-car garages. It should be noted that the four-bedroom homes would contain a second-story "pop-up" containing the fourth bedroom and third bathroom. The pop-up would be incorporated within the ridgeline of the home, thereby limiting the total height increase of the residences with pop-ups to less than four feet. The remaining eight homes would each contain four bedrooms with 2.5 bathrooms and a two-car garage.

It should be noted that the Rezone from R15 to PD would permit a reduction in lot sizes and setback requirements needed to fit all 18 single-family homes and three ADUs on the development site and ensure compliance with Single-Family Medium Density land use density requirements (3.1-5.0 du/ac). Minimum lot sizes would be reduced from 15,000 sf to an average of 7,400 sf. Proposed setbacks would be reduced from 20-feet to 10-feet for living areas; from 25 feet to 10-15 feet for side yards; and from 20 feet to 10 feet for street side yards.

Landscaping

As shown in Figure 5, the proposed project would incorporate landscaping features throughout the developed portions of the project site and along the project frontage. Four plant palettes are proposed for the future residences, each including one 15-gallon tree and several one-gallon to five-gallon flowering shrubs planted in the front yards of residences. In addition, tall evergreen shrubs would be planted alongside six-foot tall wooden fences separating the residential lots.

Figure 5
Preliminary Landscape Plan



Landscaping within common areas would include decorative cobble-stone within the bio-retention areas and along the project frontage (see Figure 6). Native oaks and drought-tolerant shrubs and grasses would provide erosion control near the slope between the development area and the open space area. In addition, wood-grain, two-rail open fencing would surround an existing large oak tree within Lot #7 and border the project frontage along Mitchell Canyon Road.

Grading

The export or import of off-site soils would not be required as earthwork within the site is anticipated to balance. Per the Preliminary Grading Plan, the site would be graded to create building pads for the 18 residential lots and the proposed roadway (see Figure 7). A bench for the proposed western bio-retention basin would be created to the west of the proposed building pads within Lot #1 through Lot #7. The slope between the development area and the open space area would be 2:1. The western open space portion of the project site would not be affected by on-site grading.

Utilities

Eight-inch water and sewage connections would be installed within the proposed roadway and connect to existing water and sewer infrastructure within Mitchell Canyon Road (see Figure 8). With respect to stormwater, runoff from pavement and rooftop areas from the western-most residences would drain to a new bio-retention basin west of Lot #7. Treated stormwater from the bio-retention basin would flow through an 18-inch storm drain within the new internal roadway and discharge through a proposed storm drain outfall within the open space area (Parcel D). The storm drain outfall would incorporate an energy dissipator to slow discharged water and protect slopes from erosion. Stormwater from the eastern-most residences, nearer to Mitchell Canyon Road, would flow into the proposed bio-retention basin east of Lot #1. Treated water from the eastern bio-retention basin would flow through a new 12-inch storm drain connecting to an existing storm drain within Mitchell Canyon Road.

Development Plan Review

All development occurring on the project site would be subject to Development Plan Review consistent with Chapter 17.44 of the Clayton Municipal Code. The Development Plan Review process would include a review of the exterior appearance of all proposed facilities and structures to ensure compliance with the City's established General Plan policies. Importantly, the proposed residences would incorporate design features intended to reflect the rural character of surrounding development, including, but not limited to, single-story development not more than 27 feet in height, wood-grain two-rail open fencing, and preservation of on-site open space and the existing drainage channel.

Figure 6
Common Area Landscape Plan

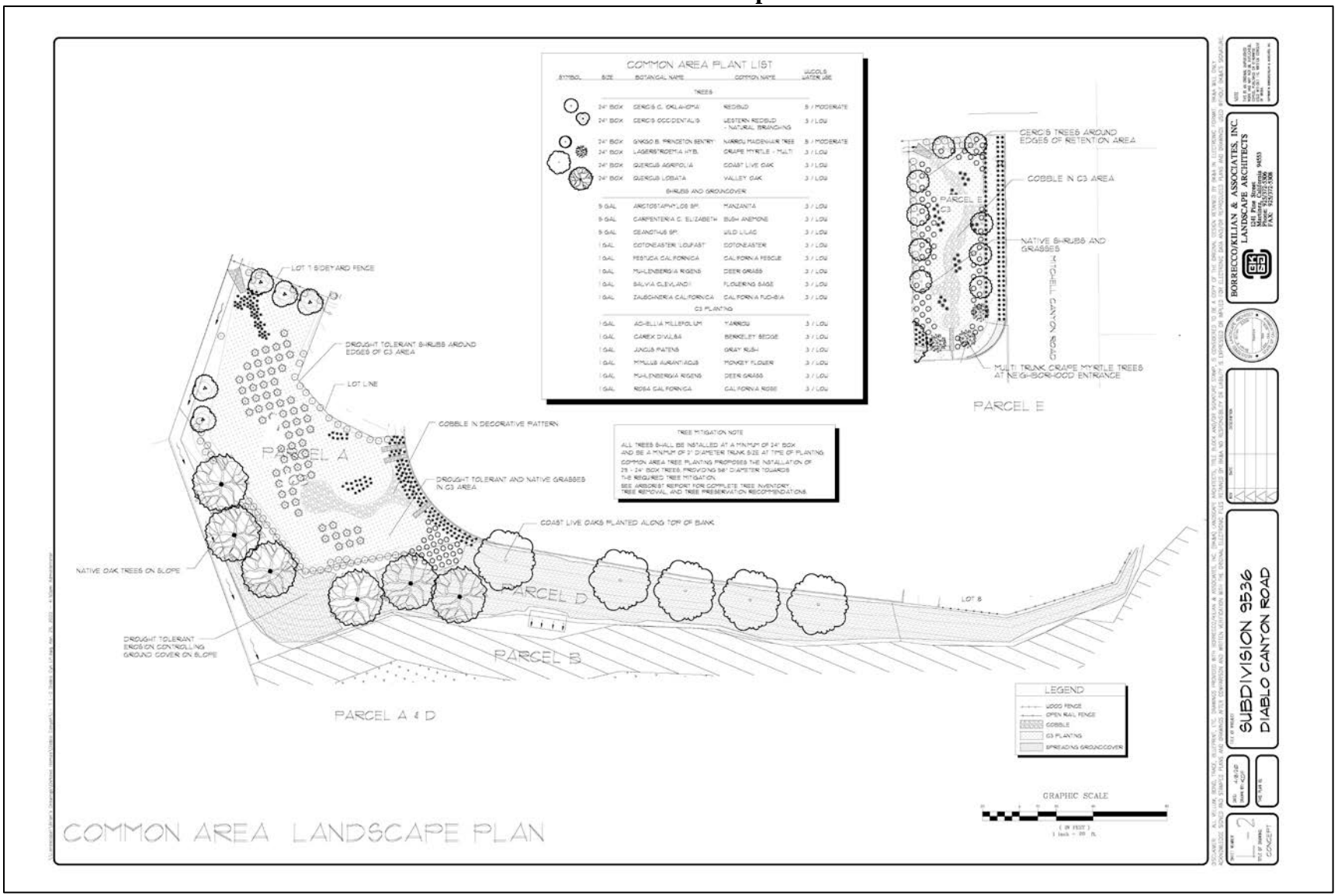


Figure 7
Preliminary Grading and Drainage Plan

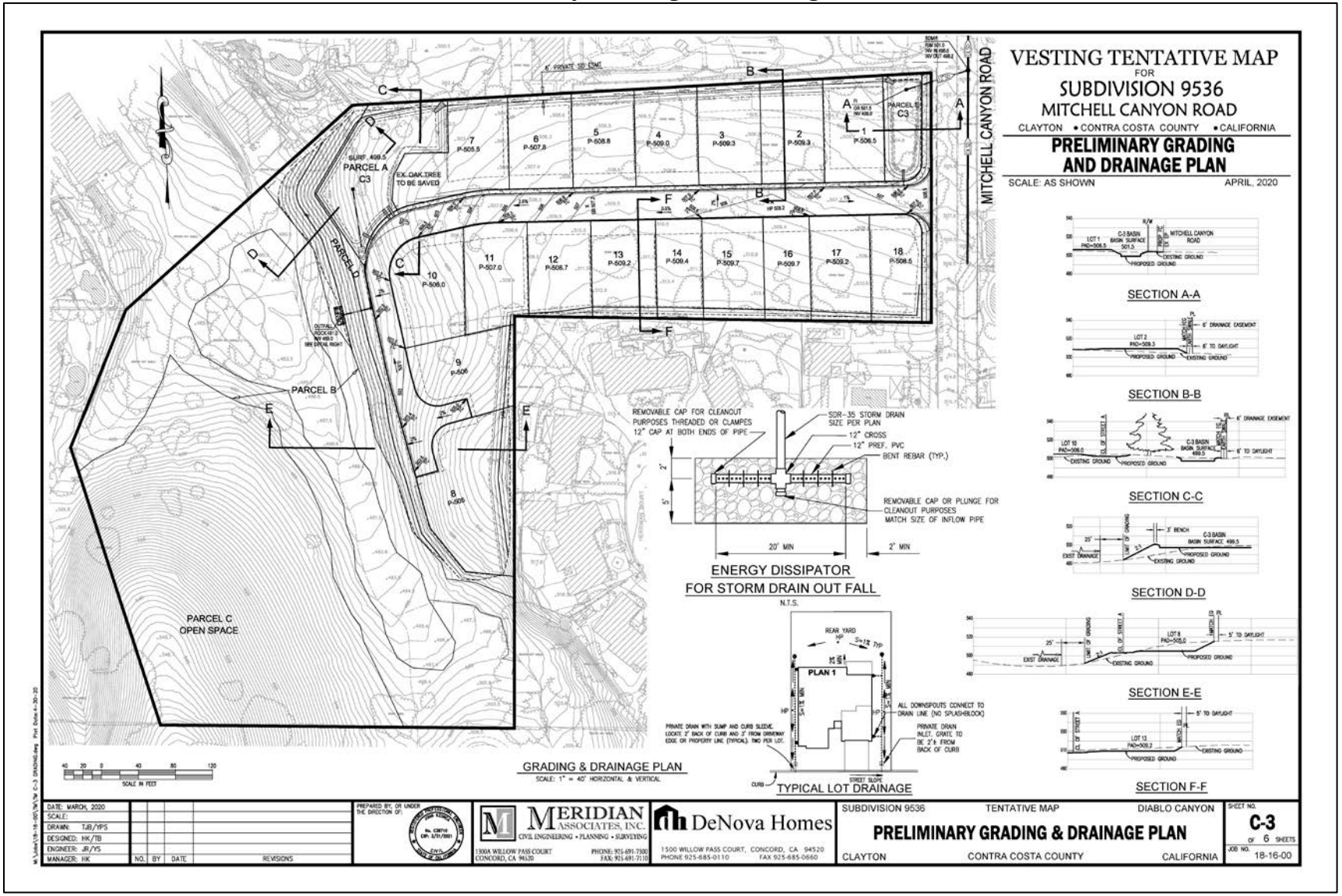
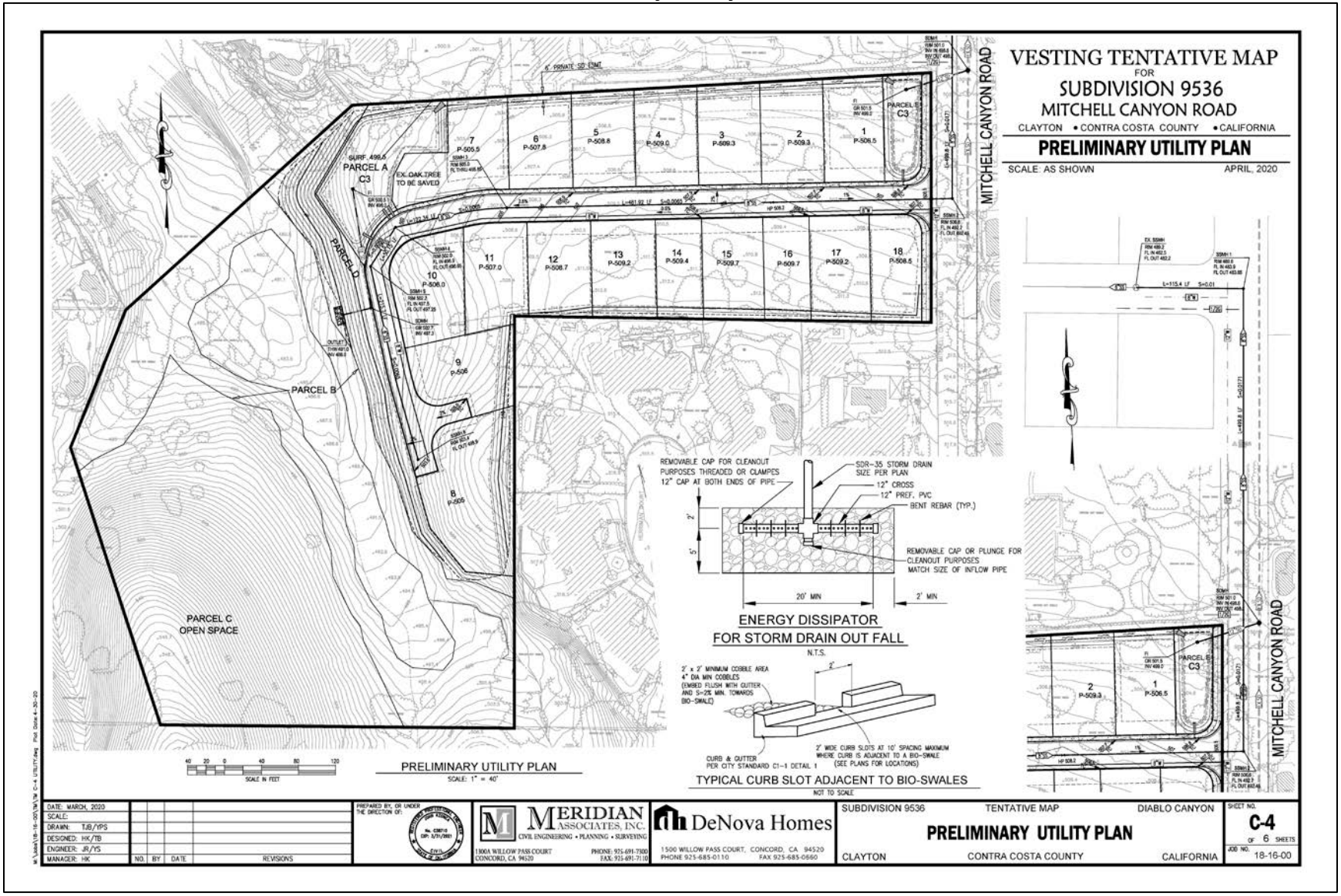


Figure 8
Preliminary Utility Plan



Tree Removal Permit

Per the Arborist Report prepared for the project site, 58 trees are located within the project site or in close enough proximity to suffer potential root damage from development. Of the 37 trees recommended for removal, 34 are protected species according to the City of Clayton Tree Protection Ordinance. Therefore, the proposed project would require approval of a Tree Removal Permit to remove the existing trees. The largest tree on-site, a large blue oak tree, would be preserved and incorporated into Lot #7.

Discretionary Actions

As discussed in detail above, the proposed project would require the following approvals from the City of Clayton:

- Rezone;
- Vesting Tentative Subdivision Map;
- Development Plan Permit;
- Development Plan Review; and
- Tree Removal Permit.

LIST OF MITIGATION MEASURES

Mitigation Measure 1. *The project applicant shall be subject to pay all required fees associated with development in Zone 2 of the ECCCHCP/NCCP prior to the start of construction at the current fee rate in place at that time.*

Mitigation Measure 2. *Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys shall establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by kit foxes in accordance with USFWS survey guidelines (U.S Fish and Wildlife Service, 1999).*

The preconstruction survey shall be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens shall be determined and mapped. Written results of the preconstruction survey shall be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

Avoidance and Minimization Measures. If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the project applicant shall comply with the following avoidance and minimization requirements:

- *If a San Joaquin kit fox den is discovered within the proposed development footprint, the den shall be monitored for three days by a USFWS-CDFW-approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.*
- *Unoccupied dens should be destroyed immediately to prevent subsequent use.*
- *If a natal or pupping den is found, USFWS and CDFW shall be notified immediately. The den shall not be destroyed until the pups and adults have vacated and further consultation with USFWS and the CDFW has been performed.*
- *If kit fox activity is observed at the den during the initial monitoring period, the den shall be monitored for an additional five consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied, the den may be excavated under the direction of the biologist. Alternatively, if the animal is still present after five or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgement of a biologist, it is temporarily vacant (i.e., during the animal's normal foraging activities).*
- *If San Joaquin kit fox dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances shall be demarcated. The configuration of exclusion zones shall be circular, with a radius measured outward from the den entrance(s). No covered activities shall occur within the exclusion zones. Exclusion zone radii for potential dens shall be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by the kit fox.*

Mitigation Measure 3. *Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The survey shall establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).*

On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership shall not be surveyed. Surveys shall take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls shall be identified and mapped. Surveys shall take place no more than 30 days prior to construction. During the breeding season (February 1 to August 31), surveys shall document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1 to January 31), surveys shall document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results shall be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization Measures. If burrowing owls are found during the breeding season (February 1 to August 31), the project proponent shall avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance shall include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 to January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance shall include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur shall be established around each occupied burrow (nest site). Buffer zones of 160 feet shall be established around each burrow being used during the nonbreeding season. The buffers shall be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation shall be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

Mitigation Measure 4. *Prior to implementation of covered activities, a qualified biologist shall conduct a preconstruction survey to establish whether nests of golden eagles are occupied. If nests are occupied, minimization requirements and construction monitoring shall be required.*

Covered activities shall be prohibited within 0.5-mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity shall coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction monitoring shall focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the Urban Limit Line, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring shall ensure that direct effects to golden eagles are minimized.

Mitigation Measure 5. *Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. The findings of the survey shall be submitted*

to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

Mitigation Measure 6. *If work is scheduled to take place between February 1 and August 31, a pre-construction nesting bird survey shall be conducted by a qualified biologist within 14 days of construction. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.*

Mitigation Measure 7. *The proposed project shall be designed in compliance with stream setback requirements set forth in Conservation Measures 1.7 and 2.12 of the ECCCHCP/NCCP, including the following avoidance and minimization measures:*

- *All wetlands to be avoided by covered activities shall be temporarily staked in the field by a qualified biologist, and a 25-foot buffer zone shall be implemented along the seasonal wetland swale and between the ephemeral streams and development activities.*
- *Herbicides shall not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In such a case, herbicides that have been approved by the EPA for use in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides shall be applied to the ruderal grassland within the buffer area during the dry season to control non-native invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.*
- *Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the ephemeral streams or the seasonal wetland swale shall be trained by a qualified biologist in the avoidance and minimization measures set forth by this IS/MND and the permit obligations of the project proponents working under the ECCCHCP.*

Mitigation Measure 8. *Vehicles and equipment shall be parked on pavement, existing roads, and previously disturbed areas. No construction or maintenance vehicles shall be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill. In addition, trash generated during project construction shall be promptly removed from the site.*

Mitigation Measure 9. *The proposed project shall be implemented in compliance with the hydrologic maintenance and erosion minimization measures set forth in Conservation Measures 1.10 and 2.12 of the ECCCHCP/NCCP. Standard construction best management practices (BMPs) shall be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs shall include the use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences, or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.*

Appropriate erosion-control measures (e.g. fiber rolls, filter fences, vegetative buffer strips) shall be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh shall be of material that shall not entrap reptiles or amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Fiber rolls used for erosion control shall be certified as free of noxious weed seed. Seed mixtures applied for erosion control shall not contain invasive non-native species, and shall be composed of native species or sterile non-native species.

Mitigation Measure 10. *The following tree protection measures shall be implemented pursuant to the recommendations listed in the Arborist Report, to the extent feasible:*

- *The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the existing trees to be retained, as identified in the Arborist Report;*
- *A five-foot tree protection zone shall be established from the northern and southern fence lines extending into the development area where no foot, vehicle, storage, or any other intrusion shall be allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within the tree protection zone;*
- *Landscaping around the protected oak (Tree #37) on-site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface;*
- *Fences along the northern and southern borders shall require absolutely no grading or digging within five radial feet of all protected tree trunks;*
- *New trees shall be selected, installed, and maintained as per requirements of the City of Clayton; and*
- *If a new fence line is established for the property, rather than demolishing and reinstalling the existing fence line, four border trees shall be preserved.*

Mitigation Measure 11. *Prior to the initiation of ground-disturbing activities, the potential for root damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Air spading shall be performed along property lines within the northern and southern portions of the project site;*
- *All exposed roots shall be pruned using sharp sawzall blades;*
- *Pruned roots shall be covered with soil.*

Mitigation Measure 12. *Prior to the initiation of ground-disturbing activities, the potential for crown damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Crowns shall be raised as specified to allow for vehicle and equipment clearance:*
    - *Crowns shall be raised 16 feet above the existing grade;*
    - *50 percent of live crown ratio shall be maintained;*
    - *Thinning cuts shall be made two inches in diameter or smaller;*

- *Downward growing branches from zero to 15 feet above grade shall be removed;*
- *Branches larger than two inches in diameter shall be shortened by heading the branches back to at least half of their diameters; and*
- *No more than 25 percent of a crown is to be removed in one season*

Mitigation Measure 13. *A tree replacement plan for the removal of 152 inches of cumulative trunk diameter of protected tree species shall be prepared in accordance with Municipal Code Section 15.070.040 A1.or A.2., or, subject to determination by the Community Development Director or Planning Commission, the applicant must pay an in-lieu fee to the City for the purchase and installation of trees of equivalent value.*

Mitigation Measure 14. *Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.*

Mitigation Measure 15. *Pursuant to State Health and Safety Code §7050.5(c) and State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the Most Likely Descendant (MLD). The MLD shall work with the contractor to develop a program for re-internment of the human remains and any associated artifacts. Additional work shall not take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.*

Mitigation Measure 16. *Prior to approval of the improvement plans for the project, all recommendations from the Geotechnical Report prepared for the project by Stevens, Ferrone, & Bailey Engineering Company, Inc (2020) shall be incorporated into the improvement plans to the satisfaction of the City Engineer. In addition, the applicant shall retain a California Registered Geotechnical Engineer to perform field observations during grading. Compliance with the recommendations of the Geotechnical Engineer shall be provided to the City Engineer.*

Mitigation Measure 17. *Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:*

- *Hydro-seeding;*

- *Placement of erosion control measures within drainage ways and ahead of drop inlets;*
- *The temporary lining (during construction activities) of drop inlets with "filter fabric";*
- *The placement of straw wattles along slope contours;*
- *Use of a designated equipment and vehicle "wash-out" location;*
- *Use of siltation fences;*
- *Use of on-site rock/gravel road at construction access points; and*
- *Use of sediment basins and dust palliatives.*

Mitigation Measure 18. *Prior to initiation of any ground disturbance activities, the applicant shall hire a licensed well contractor to obtain a well abandonment permit from Contra Costa Health Services and properly abandon the on-site well to the satisfaction of the Contra Costa Health Services Department. Proof of abandonment shall be provided to the City of Clayton Community Development Department and City Engineer.*

Mitigation Measure 19. *During grading and construction, the project contractor shall ensure that the following measures are implemented:*

- *Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;*
- *The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and*
- *All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.*

EVALUATION OF ENVIRONMENTAL IMPACTS

1. AESTHETICS.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Have a substantial adverse effect on a scenic vista?	□	□	□	X
b.	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?	□	□	□	X
c.	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	□	□	X	□
d.	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	□	□	X	□

a. Would the project have a substantial adverse effect on a scenic vista? ..... No Impact

Discussion (a.)

For purposes of this analysis, scenic vistas would be officially designated mountain ranges, ridgelines, or bodies of water as viewed from a highway, public space, or other area designated for the express purpose of viewing and sightseeing. The City of Clayton General Plan identifies the protection of scenic resources as a core concern for future development and planning. Impacts to the views of open spaces or vistas would diminish the rural character of the City, and should be avoided. However, the City's General Plan does not contain any policies that address scenic vistas, nor does the General Plan define or identify any specific scenic vistas. Thus, the proposed project would not have a substantial adverse effect on a scenic vista, and ***no impact*** would occur.

b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway? ..... No Impact

Discussion (b.)

According to the California Scenic Highway Mapping System, two highways in Contra Costa County are officially-designated State Scenic Highway corridors: [1] Interstate 680 (I-680), from the Alameda County line to the junction with State Route (SR) 24; and SR 24

[1] California Department of Transportation. *Scenic Highways*. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed July 2020.

from the east portal of the Caldecott tunnel to I-680 near Walnut Creek. Neither of the aforementioned corridors provide views of Clayton or the project site. Accordingly, the proposed project would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, or historic buildings within a State Scenic Highway. Thus, the project would result in ***no impact***.

c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? .....Less-Than-Significant Impact

Discussion (c.)

The project site would be divided between an undeveloped open space area, which contains an existing wetland and steep hillside area in the southwestern portion of the project site, and the flatter development site located nearer to Mitchell Canyon Road. Only approximately 50 percent of the site would be developed as part of the proposed project, while the remaining 50 percent of the project site would be preserved as open space in perpetuity and not affected by construction or future operations of the proposed project. The area to be retained as open space is the portion of the project site that currently provides the greatest visual quality offered on the project site. Therefore, implementation of the proposed project would only change the existing visual setting of the development site from undeveloped to a single-family residential subdivision. The following discussion provides an analysis of the changes in visual character and quality, as viewed from public areas in the project vicinity, that would be expected to occur as a result of the proposed project.

Distinguishing between public and private views is important, because private views are views seen from privately-owned land and are typically associated with individual viewers, including views from private residences. Public views are experienced by the collective public, and include views of significant landscape features and along scenic roads. According to CEQA (Pub. Resources Code, § 21000 et seq.) case law, only public views, not private views, are protected under CEQA. For example, in *Association for Protection etc. Values v. City of Ukiah* (1991) 2 Cal.App.4th 720, the court determined that "we must differentiate between adverse impacts upon particular persons and adverse impacts upon the environment of persons in general. As recognized by the court in *Topanga Beach Renters Assn. v. Department of General Services* (1976) 58 Cal.App.3d 188: '[A]ll government activity has some direct or indirect adverse effect on some persons. The issue is not whether [the project] will adversely affect particular persons but whether [the project] will adversely affect the environment of persons in general.'" Therefore, the focus in this section is on potential impacts to public views.

Public views in the project vicinity would consist primarily of views of the development site seen by motorists, bicyclists, and pedestrians traveling on Mitchell Canyon Road. Public views looking east to west from this vantage point do not include prominent background features that would be obscured by the proposed project. The proposed project would convert a portion of the undeveloped project site to a residential use, and, thus, would alter the existing visual character of the site. However, all proposed residences would be single-story and the project would be consistent with the type, location, and intensity of the residential development that has been anticipated in the City of Clayton General Plan. The proposed project would also be considered an infill project by filling in a currently vacant parcel within the surrounding residential community with 18 single-family residences and three ADUs. Furthermore, the project includes landscaping within the project frontage located along Mitchell Canyon Road, such as cobble-stone pathways and native shrubs and grasses that would be bordered by wood-grain, two-rail open fencing. Landscaping improvements would also be included within each residential lot in an effort to ensure the development would be consistent with the visual aesthetic of landscaped areas along other adjacent portions of Michell Canyon Road. For example, one 15-gallon accent tree would be included in the front yards of the proposed residences, in addition to flowering shrubs and drought tolerant groundcover.

All development occurring on the project site would be subject to Site Plan Review consistent with Chapter 17.44 of the Clayton Municipal Code. The Site Plan Review process would include a review of the exterior appearance of all proposed facilities and structures to ensure compliance with the City's established General Plan policies. Importantly, the proposed residences would incorporate design features intended to reflect the rural character of surrounding development, including, but not limited to, single-story development not more than 27 feet in height, wood-grain two-rail open fencing, and the preservation of on-site open space area and the existing drainage channel.

Given the fact that: 1) the General Plan anticipated medium density residential development for the project site, generally consistent with what is being proposed, 2) the project includes the preservation of the existing drainage channel and hilly portions of the project site as open space, and 3) the project will adhere to the Site Plan Review requirements and other applicable policies set forth in the Clayton Municipal Code, the proposed project would not substantially degrade the existing visual character or quality of the site and its surroundings, and a ***less-than-significant*** impact would occur.

d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? .....Less-Than-Significant Impact

Discussion (d.)

The project site is currently undeveloped. As such, buildout of the development area with 18 single-family residences, three ADUs, an internal street, and various other associated improvements would introduce new sources of light and/or glare to portions of the site where none currently exist. Potential sources of nighttime light would include, but not be

limited to, lighting spilling from the interiors of the proposed residences, exterior light fixtures, street lighting on the new on-site roadway, and headlights from vehicles. Sources of glare could include windows on the proposed residential structures, as well as any other reflective surfaces.

The nearest sensitive receptors, considered to be the existing residences in proximity to the site, are located less than 50 feet from the project site to the north, south, and east across Mitchell Canyon Road. The project would be required to comply with Section 8.09 of the City's Municipal Code, which prohibits the installation or maintenance of outdoor light fixtures that would cause an undue annoyance to persons on neighboring parcels in residential zoning districts. Compliance with Section 8.09 of the City's Municipal Code would be ensured during the Site Plan Review process mentioned previously. In addition, 15-foot rear setbacks and the proposed intervening landscaping would further reduce impacts related to new light sources and glare.

Based on the above, the proposed project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area, and a ***less-than-significant*** impact would occur.

2. AGRICULTURE RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:					
a.	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping Program of the California Resources Agency, to non-agricultural use?	□	□	□	X
b.	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	□	□	□	X
c.	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	□	□	□	X
d.	Result in the loss of forest land or conversion of forest land to non-forest use?	□	□	□	X
e.	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	□	□	□	X

a. Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use? ..... No Impact

b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract? ..... No Impact

Discussion (a. and b.)

According to the California Department of Conservation Important Farmland Finder, the proposed project site is classified as Grazing Land.[2] The site does not contain Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, and, thus, the project would not convert such lands to non-agricultural use. Conflicts with existing zoning for agricultural use or a Williamson Act contract would not occur. As such, the proposed project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural uses and would not conflict with existing zoning for agricultural use, or a Williamson Act contract. Thus, ***no impact*** would occur as a result of the proposed project.

[2] California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed July 2020.

c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))? ..... No Impact

d. Result in the loss of forest land or conversion of forest land to non-forest use? ..... No Impact

Discussion (c. and d.)

The project site is not considered forest land (as defined in Public Resources Code section 12220[g]) or timberland (as defined by Public Resources Code section 4526), and the site is not zoned Timberland Production (as defined by Government Code section 51104[g]). Therefore, the proposed project would have ***no impact*** with regard to conversion of forest land or any potential conflict with forest land, timberland, or Timberland Production zoning.

e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use? ..... No Impact

Discussion (e.)

The project site is located within the City of Clayton, and is located near existing residential development. Agricultural activities do not currently occur on the site, nor do they occur in any areas adjacent to or near the project site. Therefore, constructing 18 new single-family residences, three ADUs, and associated improvements within the development area of the project site would not result in conflicts between existing agricultural activities and the proposed residential land uses, which could impair existing agricultural operations or lead to induced conversion of agricultural lands due to incompatible uses. Therefore, the proposed project would not involve other changes in the existing environment, due to their location or nature, that could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use and, thus, ***no impact*** would occur.

3. AIR QUALITY.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:					
a.	Conflict with or obstruct implementation of the applicable air quality plan?	□	□	X	□
b.	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	□	□	X	□
c.	Expose sensitive receptors to substantial pollutant concentrations?	□	□	X	□
d.	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	□	□	X	□

a. Would the project conflict with or obstruct implementation of the applicable air quality plan? .....Less-Than-Significant Impact

b. Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? .....Less-Than-Significant Impact

Discussion (a. and b.)

The City of Clayton is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). The SFBAAB area is currently designated as a nonattainment area for State and federal ozone, State and federal fine particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State respirable particulate matter 10 microns in diameter (PM_{10}) ambient air quality standards (AAQS). The SFBAAB is designated attainment or unclassified for all other AAQS. It should be noted that on January 9, 2013, the U.S. Environmental Protection Agency (USEPA) issued a final rule to determine that the Bay Area has attained the 24-hour $PM_{2.5}$ federal AAQS. Nonetheless, the Bay Area must continue to be designated as nonattainment for the federal $PM_{2.5}$ AAQS until such time as the BAAQMD submits a redesignation request and a maintenance plan to the USEPA, and the USEPA approves the proposed redesignation. The USEPA has not yet approved a request for redesignation of the SFBAAB; therefore, the SFBAAB remains in nonattainment for 24-hour $PM_{2.5}$.

In compliance with regulations, due to the nonattainment designations of the area, the BAAQMD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The current air quality plans are prepared in cooperation with the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG).

The most recent federal ozone plan is the 2001 Ozone Attainment Plan, which was adopted on October 24, 2001 and approved by the California Air Resources Board (CARB) on November 1, 2001. The plan was submitted to the USEPA on November 30, 2001 for review and approval. The most recent State ozone plan is the 2017 Clean Air Plan, adopted on April 19, 2017. The 2017 Clean Air Plan was developed as a multi-pollutant plan that provides an integrated control strategy to reduce ozone, PM, toxic air contaminants (TACs), and greenhouse gases (GHGs). Although a plan for achieving the State PM_{10} standard is not required, the BAAQMD has prioritized measures to reduce PM in developing the control strategy for the 2017 Clean Air Plan. The control strategy serves as the backbone of the BAAQMD's current PM control program.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures to be implemented in the region to attain the State and federal AAQS within the SFBAAB. Adopted BAAQMD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated nonattainment, consistent with applicable air quality plans. For development projects, BAAQMD establishes significance thresholds for emissions of the ozone precursors reactive organic gases (ROG) and oxides of nitrogen (NO_X), as well as for PM_{10} and $PM_{2.5}$, expressed in pounds per day (lbs/day) and tons per year (tons/yr). The thresholds are listed in Table 1. Thus, by exceeding the BAAQMD's mass emission thresholds for construction and/or operational emissions of ROG, NO_X, PM_{10}, or $PM_{2.5}$, a project would be considered to conflict with or obstruct implementation of the BAAQMD's air quality planning efforts.

Table 1
BAAQMD Thresholds of Significance

	Construction	Operational	
Pollutant	**Average Daily Emissions (lbs/day)**	**Average Daily Emissions (lbs/day)**	**Maximum Annual Emissions (tons/year)**
ROG	54	54	10
NO_x	54	54	10
PM_{10} (exhaust)	82	82	15
$PM_{2.5}$ (exhaust)	54	54	10

Source: BAAQMD, CEQA Guidelines, May 2017.

The proposed project's construction and operational emissions were quantified using the California Emissions Estimator Model (CalEEMod) software version 2016.3.2 - a Statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, vehicle mix, trip length, average speed, etc. Where project-specific information is available, such information is applied in the model. The proposed project's modeling assumed the following:

- The modeled land uses consist of:
  - 18 single-family residential units on 3.19 acres of land; and
  - 0.74-acre of paved roadway.
- Construction would begin in May of 2021 and occur over approximately one year;

- Demolition of the on-site shed would involve removal of approximately 350 sf of building material;
- A total of 3.93 acres of land would be disturbed during grading, and import or export of material would not be required;
- The trip generation rate was set to 9.52 trips/unit, based on the Institute of Transportation Engineers (ITE) 9th edition trip generation rate for Single Family Homes (210);
- Fireplaces would not be installed;
- The project would provide on-site pedestrian connectivity;
- The project site is located within 0.5-mile of an existing transit stop;
- Pursuant to BAAQMD requirements, low-VOC outdoor paints would be used for architectural coatings; and
- The project would comply with all applicable provisions of the 2019 California Building Code (CBC), including installation of efficient indoor water fixtures, and generation of 100 percent of electricity on-site from renewable sources.

The proposed project's estimated emissions associated with construction and operations and the project's contribution to cumulative air quality conditions are provided below. All CalEEMod results are included as Appendix A to this IS/MND. It should be noted that the three ADU's proposed for Lots 14, 16, and 18 would be expected to have reduced trip rates compared to the proposed single-family units. Overall, the three ADUs would not result in emissions substantial enough to affect the conclusions presented below.

Construction Emissions

According to the CalEEMod results, the proposed project would result in maximum unmitigated construction criteria air pollutant emissions as shown in Table 2. As shown in the table, the proposed project's construction emissions would be below the applicable thresholds of significance for ROG, NO_X, PM_{10}, and $PM_{2.5}$.

Table 2
Maximum Construction Emissions (lbs/day)

Pollutant	Proposed Project Emissions	Threshold of Significance	Exceeds Threshold?
ROG	4.03	54	**NO**
NO_X	40.54	54	**NO**
PM_{10} (exhaust)	2.05	82	**NO**
PM_{10} (fugitive)	18.21	None	**N/A**
$PM_{2.5}$ (exhaust)	1.88	54	**NO**
$PM_{2.5}$ (fugitive)	9.97	None	**N/A**

Source: CalEEMod, August 2020 (see Appendix A)

Although thresholds of significance for mass emissions of fugitive dust PM_{10} and $PM_{2.5}$ have not been identified by BAAQMD, the proposed project's estimated fugitive dust emissions have been included for informational purposes. All projects within the jurisdiction of the BAAQMD are required to implement all of the BAAQMD's Basic Construction Mitigation Measures, which include the following:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

The proposed project's implementation of the BAAQMD's Basic Construction Mitigation Measures would further minimize construction-related emissions.

Because the proposed project would be below the applicable thresholds of significance for construction emissions, project construction would not result in a significant air quality impact.

Operational Emissions

According to the CalEEMod results, the proposed project would result in maximum unmitigated operational criteria air pollutant emissions as shown in Table 3. As shown in the table, the proposed project's operational emissions would be well below the applicable thresholds of significance.

Table 3
Unmitigated Maximum Operational Emissions

Pollutant	Proposed Project Emissions		Threshold of Significance		Exceeds Threshold?
	lbs/day	tons/yr	lbs/day	tons/yr	
ROG	1.08	0.19	54	10	**NO**
NO_X	1.08	0.19	54	10	**NO**
PM_{10} (exhaust)	0.03	0.00	82	15	**NO**
PM_{10} (fugitive)	0.79	0.14	None	None	**N/A**
$PM_{2.5}$ (exhaust)	0.02	0.00	54	10	**NO**
$PM_{2.5}$ (fugitive)	0.21	0.04	None	None	**N/A**

Source: CalEEMod, August 2020 (see Appendix A)

Because the proposed project's operational emissions would be below the applicable thresholds of significance, the proposed project would be considered to result in a less-than-significant air quality impact during operations.

Cumulative Emissions

Past, present and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By nature, air pollution is largely a cumulative impact. A single project is not sufficient in size to, by itself, result in nonattainment of AAQS. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant. In developing thresholds of significance for air pollutants, BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. The thresholds of significance presented in Table 1 represent the levels at which a project's individual emissions of criteria air pollutants or precursors would result in a cumulatively considerable contribution to the SFBAAB's existing air quality conditions. If a project exceeds the significance thresholds presented in Table 1, the proposed project's emissions would be cumulatively considerable, resulting in significant adverse cumulative air quality impacts to the region's existing air quality conditions. Because the proposed project would result in emissions below the applicable thresholds of significance, the project would not be expected to result in a cumulatively considerable contribution to the region's existing air quality conditions.

Conclusion

As stated previously, the applicable regional air quality plans include the 2001 Ozone Attainment Plan and the 2017 Clean Air Plan. According to BAAQMD, if a project would not result in significant air quality impacts, after the application of all feasible mitigation, the project may be considered consistent with the air quality plans. Because the proposed project would result in emissions below the applicable thresholds of significance, the project would not be considered to conflict with or obstruct implementation of regional air quality plans.

Because the proposed project would not conflict with or obstruct implementation of the applicable air quality plans, violate any air quality standards or contribute substantially to an existing or projected air quality violation, or result in a cumulatively considerable net increase in any criteria air pollutant, impacts would be considered ***less than significant***.

c. Would the project expose sensitive receptors to substantial pollutant concentrations? .....Less-Than-Significant Impact

Discussion (c.)

Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically

considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics. The nearest existing sensitive receptors to the site would be the single-family residences to the north and south of the project site, located approximately 50 feet away in each direction.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions and TAC emissions. Discussions of CO emissions, TAC emissions, criteria pollutants and potential health impacts resulting from the emission of criteria pollutants are included below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. Emissions of CO are of potential concern, as the pollutant is a toxic gas that results from the incomplete combustion of carbon-containing fuels such as gasoline or wood. CO emissions are particularly related to traffic levels.

In order to provide a conservative indication of whether a project would result in localized CO emissions that would exceed the applicable threshold of significance, the BAAQMD has established screening criteria for localized CO emissions. According to BAAQMD, a proposed project would result in a less-than-significant impact related to localized CO emission concentrations if all of the following conditions are true for the project:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans;
- The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour; and
- The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, underpass, etc.).

According to the Contra Costa Transportation Authority (CCTA) Congestion Management Plan (CMP), any land development application generating less than 100 peak hour trips is not required to prepare a study of the development's traffic impacts on the CMP network as such projects are expected to have minimal impacts on the CMP network.[3] As discussed in further detail in Section 17, Transportation, of this IS/MND, the proposed project would result in an estimated 193 new daily vehicle trips, with 16 new AM and 20 new PM peak hour vehicle trips. Because the project is anticipated to only generate 36 total peak hour trips per day, the project would be well below the CCTA CMP threshold of 100 new peak hour trips, and would thus be considered consistent with the CCTA CMP.

[3] Contra Costa Transportation Authority. *2019 Update of the Contra Costa Congestion Management Program* [page 72]. Adopted December 18, 2019.

As discussed above, the project is not expected to generate a significant increase in peak hour trips. According to recent traffic counts on Mitchell Canyon Road, conducted by the City Engineering Department, Mitchell Canyon Road experiences an average daily traffic level of approximately 2,432 vehicle trips. The proposed residences are anticipated to generate approximately 193 trips per day, which would contribute a nominal increase in local traffic levels, and would not increase traffic volumes at any intersection to more than 44,000 vehicles per hour. As such, the proposed project's increase of 36 total new peak hour trips would not increase traffic volumes at nearby intersections to more than the hourly traffic volumes set forth in the BAAQMD's localized CO screening criteria. Furthermore, intersections where vertical and/or horizontal mixing is limited are not located in the project vicinity.

Based on the above, per the BAAQMD's screening criteria for localized CO emissions, the proposed project would not be expected to result in substantial levels of localized CO at surrounding intersections or generate localized concentrations of CO that would exceed standards or cause health hazards.

TAC Emissions

Another category of environmental concern is TACs. The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk. The nearest sensitive receptors to the proposed project are single-family residences located approximately 50 feet to the north and the single-family residences located approximately 50 feet to the south of the project site.

The proposed residential project does not include any operations that would be considered a substantial source of TACs. Accordingly, operations of the proposed project would not expose sensitive receptors to excess concentrations of TACs.

Short-term, construction-related activities could result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. Specifically, as noted above, construction would occur over an approximately one-year period, with the most intense period of construction occurring during the site-preparation phase, which would take place over approximately five days. The exposure period typically analyzed in health risk assessments is 30 years or greater, which is substantially longer than the approximately one-year total construction period associated with the proposed project. In addition, all construction equipment and operation thereof would be regulated by the In-Use Off-Road Diesel Vehicle Regulation, which is intended to help reduce emissions associated with off-road diesel vehicles and equipment, including DPM. Project construction would also be

required to comply with all applicable BAAQMD rules and regulations, particularly associated with permitting of air pollutant sources. In addition, per the City of Clayton Municipal Code Section 15.01.101, construction activities would be limited to daytime hours only, which would limit the duration during which emissions from on-site equipment would occur.

During construction, only portions of the project site would be disturbed at a time. Operation of construction equipment would occur on portions of the site intermittently throughout the course of a day over the overall construction period. Because construction equipment on-site would operate only intermittently and would be used at varying locations within the site, associated emissions of DPM would not occur at the same location (or be evenly spread throughout the entire project site) for long periods of time. According to BAAQMD, research conducted by CARB indicates that DPM is highly dispersive in the atmosphere. Thus, any particular nearby sensitive receptor would be exposed to varying concentrations of DPM emissions throughout the construction period, and a single receptor would not consistently be subject to substantial DPM emissions. Due to the temporary nature of construction and the relatively short duration of potential exposure to associated emissions, sensitive receptors in the area would not be exposed to pollutants for a permanent or substantially extended period of time.

Considering the short-term nature of construction activities, the regulated and intermittent nature of the operation of construction equipment, and the highly dispersive nature of DPM, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time would be low. For the aforementioned reasons, project construction would not be expected to expose sensitive receptors to substantial pollutant concentrations.

Criteria Pollutants

The BAAQMD thresholds of significance were established with consideration given to the health-based air quality standards established by the NAAQS and CAAQS, and are designed to aid the district in achieving attainment of the NAAQS and CAAQS.[4] Although the BAAQMD's thresholds of significance are intended to aid achievement of the NAAQS and CAAQS for which the SFBAAB is in nonattainment, the thresholds of significance do not represent a level above which individual project-level emissions would directly result in public health impacts. Nevertheless, a project's compliance with BAAQMD's thresholds of significance provides an indication that criteria pollutants released as a result of project implementation would not inhibit attainment of the health-based regional NAAQS and CAAQS. Because project-related emissions would not exceed the BAAQMD's thresholds, and, thus, would not inhibit attainment of regional NAAQS and CAAQS, the criteria pollutants emitted during project implementation would not be anticipated to result in measurable health impacts to sensitive receptors. Accordingly, the proposed project would not expose sensitive receptors to excess concentrations of criteria pollutants.

[4] Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines.* May 2017.

Conclusion

Based on the above discussion, the proposed project would not expose any sensitive receptors to substantial concentrations of localized CO or TACs from construction or operation, nor would the proposed project result in measurable health impacts to sensitive receptors due to the release of criteria pollutants. Therefore, the proposed project would result in a ***less-than-significant*** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? .....Less-Than-Significant Impact

Discussion (d.)

Emissions such as those leading to odors have the potential to adversely affect sensitive receptors within the project area. Pollutants of principal concern include emissions leading to odors, emission of dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in sections "a" through "c" above. Therefore, the following discussion focuses on emissions of odors and dust.

Pursuant to the BAAQMD CEQA Guidelines, odors are generally regarded as an annoyance rather than a health hazard.[5] Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The presence of an odor impact is dependent on several variables including: the nature of the odor source; the frequency of odor generation; the intensity of odor; the distance of odor source to sensitive receptors; wind direction; and sensitivity of the receptor.

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantification of significant odor impacts is relatively difficult. Typical odor-generating land uses include, but are not limited to, wastewater treatment plants, landfills, and composting facilities. The proposed project would not introduce any such land uses.

Construction activities often include diesel-fueled equipment and heavy-duty diesel trucks, which can create odors associated with diesel fumes, which could be found to be objectionable. However, as discussed above, construction activities would be temporary, and operation of construction equipment would be regulated and intermittent. Project construction would be required to comply with all applicable BAAQMD rules and regulations, particularly associated with permitting of air pollutant sources. The aforementioned regulations would help to minimize air pollutant emissions as well as any associated odors. Accordingly, substantial objectionable odors would not occur during construction activities or affect a substantial number of people.

[5] Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines* [pg. 7-1]. May 2017.

In addition, the BAAQMD rules and regulations would act to reduce construction-related dust, which would ensure that construction of the proposed project does not result in substantial emissions of dust. Following project construction, the project site would not include any exposed topsoil. Thus, project operations would not include any substantial sources of dust.

For the aforementioned reasons, construction and operation of the proposed project would not result in emissions (such as those leading to odors) adversely affecting a substantial number of people, and a ***less-than-significant*** impact would result.

4. BIOLOGICAL RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	□	X	□	□
b.	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	□	X		□
c.	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	□	X		□
d.	Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	□	□	X	□
e.	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	□	X	□	□
f.	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan?	□	□	X	□

a. Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? ..... Less-Than-Significant With Mitigation Incorporated

Discussion (a.)

This section is based upon a Planning Survey Report (PSR) prepared for the project site by Moore Biological Consultants (MBC) in order to comply with and receive Permit coverage under the *Natural Community Conservation Plan and the East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan* (ECCCHCP/NCCP) (see Appendix B)[6].

The following discussion describes the sensitive biological resources that have the potential to be present within the project site based on the PSR. Sensitive biological resources

[6] Moore Biological Consultants. *Application Form and Planning Survey Report, Diablo Meadows.* July 2020.

include habitats and/or individual plant and animal species that have special recognition by federal, State, or local conservation agencies. For purposes of this analysis, special-status animal species are defined as animals protected under the California and Federal Endangered Species Acts (CESA and FESA, respectively), or other regulations, and species that are considered rare by the scientific community. Special-status plant species are defined as plants that are protected under the CESA and FESA or listed as rare by California Department of Fish and Wildlife (CDFW) and the California Native Plant Society (CNPS). Special-status species include:

- Animals and plants listed or proposed for listing as threatened or endangered under the CESA (Fish and Game Code §2050 et seq.; 14 CCR §670.1et seq.) or the FESA (50 CFR 17.11);
- Animals and plants that are candidates for possible future listing as threatened or endangered under the FESA (50 CFR 17; FR Vol. 64, No. 205, pages 57533-57547, October 25, 1999); and under the CESA (California Fish and Game Code §2068);
- Animals that meet the definition of endangered, rare, or threatened under the California Environmental Quality Act (CEQA) (14 CCR §15380) that may include species not found on either State or Federal Endangered Species lists;
- Animals that are designated as "species of special concern" by CDFW (2016);
- Animal species that are designated as “fully protected” under California (Fish and Game Code 3511, 4700, 5050, and 5515);
- Animal species that are designated as “covered” species under the ECCHCP/NCCP;
- Plants that are listed by CNPS Rare Plant Program as rank 1A – plants presumed extirpated in California and either rare or extinct elsewhere, 1B – plants rare, threatened or endangered in California or elsewhere, 2A – plants presumed extirpated in California but common elsewhere, 2B – plants rare, threatened or endangered in California by common elsewhere, 3 – plants about which more is needed and 4 – plants of limited distribution; and
- Plants that are listed by the ECCHCP/NCCP as “covered” or “no take” species.

In addition to regulations for special-status species, most birds in the United States, including non-status species, are protected by the Migratory Bird Treaty Act (MBTA) of 1918. Under the MBTA, destroying active nests, eggs, and young is illegal.

According to the PSR, the project site consists of approximately 8.07 acres of annual grassland cover, 0.19-acres of seasonal wetlands, 0.02-acre of streams, and 0.38-acres of urban land (see Figure 9). The western portion of the project site, generally referred to as the open space area in this IS/MND, consists of rolling hills vegetated with annual grassland. Dominant annual grassland species within the western open space portion of the project site include oats, ripgut brome, foxtail barley, California poppy, common bedstraw, cut leaved geranium, and vetch. A marginal seasonal wetland feature is also located in the western portion of the site, in a low valley at the base of two hillslopes (see Figure 9). Vegetation associated with the seasonal wetland includes perennial ryegrass, creeping wild rye, curly dock, a few other marginal hydrophytes, and various upland species, including black mustard and common bedstraw.

Figure 9
Project Site Landcover Map



As shown in Figure 9, the southern end of the seasonal wetland abruptly transitions to a defined channel with notable bed and bank that is best described as an ephemeral stream. The channel is approximately three feet wide without any adjacent wetlands. A very weak ephemeral stream is also located within the open space area along the western edge of the project site, with a barely discernible Ordinary High-Water Mark (OHWM). The channel is approximately one to two feet wide without any adjacent wetlands.

The eastern "panhandle" of the site, referred to as the development area, is considered a highly disturbed flat terrace vegetated with annual grassland. Dominant grassland species in the development area include oats, ripgut brome, black mustard, yellow star-thistle, radish, rose clover, and filaree. Upon site reconnaissance, the annual grassland was determined to be highly disturbed by periodic mowing and/or disking for fire suppression and weed abatement. In addition, 103 trees, predominantly of the Valley Oak species, were observed within the project site.

It should be noted that an approximately 0.38-acre area in the northwestern portion of the project site is depicted as urbanized and previously developed. A historical aerial photograph from 1939 shows the project site as an orchard, with a structure present within the area mapped as urbanized. While evidence of a structure does not exist on-site, there is a notably straight row of walnuts within the area that MBC determined was likely an old fence line, and a depressional area in the nearby seasonal wetland appears to be remnants of a small constructed stock pond.

The project site is located within the boundaries of the ECCCHCP/NCCP, which is intended to provide an effective framework to protect natural resources in the County.[7] The project site is located within Zone 2 of the Fee Payment Zones designated in the ECCCHCP/NCCP. Per the Fee Payment Zones, the proposed project would be subject to payment of all applicable fees prior to construction of the project, as further discussed under question 'f'.

Visual reconnaissance surveys of the project area were conducted by MBC in April 2020. During the field surveys, the biologist walked the entire project site in meandering transects to evaluate biological resource conditions at the site. In addition, a botanist performed three field surveys to assess potentially suitable habitat for special-status plants. The field surveys were floristic in nature with the goal of identifying species observed to the taxonomic level necessary to determine whether a species was a special-status species.

As part of the PSR, a total of 11 covered or no-take special-status plant species were identified through the literature review and database queries as having suitable land cover present within the project site. Upon site reconnaissance, covered or no-take plants were not observed or are not expected to occur on the project site. MBC determined that the annual grassland within the site is moderately to highly disturbed and does not provide potentially suitable habitat for any of the covered plants that occur in the more natural annual grasslands in the greater project vicinity. The seasonal wetland is also disturbed and provides very poor-quality habitat for covered plants that occur in similar environments.

[7] East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan*. http://www.co.contra-costa.ca.us/depart/cd/water/HCP/. As updated October 2007

While the project site contains an ephemeral stream and grasslands, which may provide migration and aestivation habitat for California red-legged frog (CRLF), MBC determined that the stream would be considered too small and/or weak to provide suitable habitat for CRLF; similarly, the annual grasslands do not provide suitable aestivating habitat for CRLF due to periodic disking. MBC also determined that the seasonal wetland, which has been moderately disturbed by periodic mowing and past cultivation for orchard crops, does not provide suitable habitat for California tiger salamander (CTS) or vernal pool branchiopods (VPB). The project site is mapped in Appendix D of the ECCCHCP/NCCP as "potential movement habitat" for Alameda whipsnake; however, the site does not contain the mosaic of scrub, chaparral, grassland, and woodland habitat required by the species. In addition, while the stream along the western edge of the site is mapped in the ECCCHCP/NCCP as "potential movement habitat" for western pond turtle and "suitable low use habitat" for foothill yellow-legged frog, according to MBC, the hydrological regime of the on-site stream makes the stream unlikely to be used by either species.

However, MBC concluded that the project site contains suitable habitat for burrowing, foraging, and/or nesting activities for the San Joaquin kit fox, western burrowing owl, and golden eagle, as well as white-tailed kite, which is considered a fully protected species per California Fish and Game Code Section 3511. In addition, development of the site could result in significant adverse impacts to birds protected under the MBTA. Such species are discussed in further detail below.

Special-Status Wildlife

The following discussions summarize the potential for the proposed project to result in adverse effects to San Joaquin kit fox, western burrowing owl, golden eagle, white-tailed kite, and birds protected by the MBTA.

San Joaquin Kit Fox

San Joaquin kit fox habitat is largely restricted to annual grassland. Within Contra Costa County, kit foxes primarily occur in the Los Vaqueros Watershed and Black Diamond Mines Regional Preserve, and are assumed to regularly move through and forage within the lands in between. The project site consists of annual grassland and ruderal grassland that is within the historical range of San Joaquin kit fox. However, the CNDDB contains no occurrences of San Joaquin kit fox within 0.5-mile of the site.

The site is within ECCCHCP/NCCP-modeled range for San Joaquin kit fox and is identified as "suitable core habitat" in Appendix D of the ECCCHCP/NCCP. Therefore, the on-site grasslands were inspected for burrows or dens with evidence of kit fox occupancy (i.e. scat, tracks) or burrows or dens that meet the dimensional criteria for kit fox. Comprehensive inspection of potential den habitat was accomplished by walking meandering transects throughout the property, but did not uncover any potential San Joaquin kit fox dens. Nevertheless, because the project site is within modeled habitat for San Joaquin kit fox, preconstruction surveys would be required to ensure that the proposed development would not result in impacts to the species.

Western Burrowing Owl

The western burrowing owl is designated by CDFW as a Species of Special Concern. Burrowing owls are found in open arid and semiarid habitats with short or sparse vegetation, including grasslands, deserts, agricultural fields, ruderal areas and open, landscaped areas. The species is dependent on mammals such as the California ground squirrel that dig underground burrows, which the owls occupy. Some burrowing owls have adapted to urban landscapes, and in some instances, open lots, roadsides, and landscaped areas can provide suitable habitat. Breeding typically occurs from March to August but can begin as early as February and can last into December.

The site consists of annual grassland and ruderal grassland that is within the range of western burrowing owl. CDFW's CNDDB does not contain occurrences of western burrowing owl within 0.5-mile of the site. The site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Western burrowing owls or burrows with evidence of the species were not observed upon site reconnaissance. Nevertheless, because the project site is within modeled habitat for western burrowing owl, preconstruction surveys would be required to ensure that the proposed development would not result in impacts to the species.

Golden Eagle

The site consists of annual grassland and ruderal grassland that is within the range of golden eagle habitat. CDFW's CNDDB does not contain occurrences of golden eagle within 0.5-mile of the site. MBC determined that only a few of the on-site trees are large enough to support golden eagle. Potential nest trees near and visible from the site also contain potentially suitable habitat for nesting. Raptor stick nests were not observed within the on-site trees or off-site trees visible from the site. Golden eagles were not observed on the project site, as the species primarily nests more often on cliffs in remote natural areas than in trees near urban areas. Nevertheless, because the project site is within ECCCHCP/NCCP-modeled habitat for golden eagle, preconstruction surveys would be required to ensure that the proposed development would not result in impacts to the species.

White-tailed kite

Potential nesting habitat for the white-tailed kite, a species identified by California Fish and Game Code 3511 as a fully protected species, occurs within various existing trees on the project site. Given that the project site includes suitable nesting habitat for the white-tailed kite, development of the site and removal of potential nesting trees could result in a significant adverse impact to white-tailed kite.

Birds Protected by the MBTA

Several trees present on the proposed project site could serve as nesting locations for common and sensitive passerine and raptor species protected under the MBTA. Site construction activities, including tree removal during the active nesting season (February 1 to August 31) would have the potential to cause the failure or abandonment of active nests of migratory birds. Impacts to nesting birds, their eggs, and/or young caused by implementation of the project would be regarded as a potentially significant impact.

Special-Status Plants

The PSR indicates that surveys must be completed for special-status plants based on whether suitable land cover types are found on-site. Based on the suitable land cover types identified in the PSR, a total of 11 special-status plant species could occur on-site, and, thus, require surveys. The species include adobe navarretia (*Navarretia nigelliformis*, Covered species), alkali milkvetch (*Astragalus tener*, ECCCHCP/NCCP No-take species), big tarplant (*Blepharizonia plumose*, ECCCHCP/NCCP Covered species), Brewer's dwarf flax (*Hesperolinon breweri*, ECCCHCP/NCCP Covered species), Contra Costa goldfields (*Lasthenia conugens*, ECCCHCP/NCCP No-take species), diamond-petaled poppy (*Eschscholzia rhombipetala*, ECCCHCP/NCCP No-take species), large-flowered fiddleneck (*Amsinckia grandiflora*, ECCCHCP/NCCP No-take species), Mount Diablo buckwheat (*Eriogonum truncatum*, ECCCHCP/NCCP No-take species), Mount Diablo fairy-lantern (*Calochortus Pulchellus*, ECCCHCP/NCCP Covered species), round-leaved filaree (*California macrophylla*, ECCCHCP/NCCP Covered species), and showy madia (*Madia radiata*, ECCCHCP/NCCP Covered species).

Three floristic surveys were determined appropriate to encompass the blooming periods of target species and were conducted on April 9th, April 29th, and July 14th of 2020. Special-status plants were not observed during the surveys. Therefore, impacts related to the potential disturbance of special-status plant species would be considered less-than-significant.

Conclusion

Based on the above, in the absence of appropriate mitigation, construction activities associated with the proposed project could result in adverse effects to San Joaquin kit fox, western burrowing owl, golden eagle, white-tailed kite, and birds protected by the MBTA. Thus, a ***potentially significant*** impact could occur.

Mitigation Measure(s)
Implementation of the following mitigation measures would reduce the above potential impacts to a *less-than-significant* level.

Mitigation Measure 1. *The project applicant shall be subject to pay all required fees associated with development in Zone 2 of the ECCCHCP/NCCP prior to the start of construction at the current fee rate in place at that time.*

San Joaquin Kit Fox

Mitigation Measure 2. *Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys shall establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by*

kit foxes in accordance with USFWS survey guidelines (U.S Fish and Wildlife Service, 1999).

The preconstruction survey shall be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens shall be determined and mapped. Written results of the preconstruction survey shall be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

<u>Avoidance and Minimization Measures.</u> If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the project applicant shall comply with the following avoidance and minimization requirements:

- *If a San Joaquin kit fox den is discovered within the proposed development footprint, the den shall be monitored for three days by a USFWS-CDFW-approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.*
- *Unoccupied dens should be destroyed immediately to prevent subsequent use.*
- *If a natal or pupping den is found, USFWS and CDFW shall be notified immediately. The den shall not be destroyed until the pups and adults have vacated and further consultation with USFWS and the CDFW has been performed.*
- *If kit fox activity is observed at the den during the initial monitoring period, the den shall be monitored for an additional five consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied, the den may be excavated under the direction of the biologist. Alternatively, if the animal is still present after five or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgement of a biologist,*

it is temporarily vacant (i.e., during the animal's normal foraging activities).

- *If San Joaquin kit fox dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances shall be demarcated. The configuration of exclusion zones shall be circular, with a radius measured outward from the den entrance(s). No covered activities shall occur within the exclusion zones. Exclusion zone radii for potential dens shall be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by the kit fox.*

Western Burrowing Owl

Mitigation Measure 3. *<u>Preconstruction Survey.</u> Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The survey shall establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).*

On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership shall not be surveyed. Surveys shall take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls shall be identified and mapped. Surveys shall take place no more than 30 days prior to construction. During the breeding season (February 1 to August 31), surveys shall document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1 to January 31), surveys shall document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results shall be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

<u>Avoidance and Minimization Measures.</u> If burrowing owls are found during the breeding season (February 1 to August 31), the project proponent shall avoid all nest sites that

could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance shall include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 to January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance shall include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur shall be established around each occupied burrow (nest site). Buffer zones of 160 feet shall be established around each burrow being used during the nonbreeding season. The buffers shall be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation shall be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

Golden Eagle

Mitigation Measure 4. *Prior to implementation of covered activities, a qualified biologist shall conduct a preconstruction survey to establish whether nests of golden eagles are occupied. If nests are occupied, minimization requirements and construction monitoring shall be required.*

Covered activities shall be prohibited within 0.5-mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation,

limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity shall coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction monitoring shall focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the Urban Limit Line, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring shall ensure that direct effects to golden eagles are minimized.

White-tailed Kite

Mitigation Measure 5. *Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.*

Birds Protected by the MBTA

Mitigation Measure 6. *If work is scheduled to take place between February 1 and August 31, a pre-construction nesting bird survey shall be conducted by a qualified biologist within 14 days of construction. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.*

b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service? .... Less-Than-Significant With Mitigation Incorporated

c. Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal,

filling, hydrological interruption, or other means?..... ..... Less-Than-Significant With Mitigation Incorporated

Discussion (b. and c.)
Riparian habitats are described as the land and vegetation that is situated along the bank of a stream or river. Wetlands are areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of time during the year. Vernal pools are seasonal depressional wetlands that are covered by shallow water for variable periods from winter to spring, but may be completely dry for most of the summer and fall. Vernal pools range in size from small puddles to shallow lakes, and are usually found in gently sloping plains of grasslands.

As shown in Figure 10, an intermittent 0.01-acre blue-line stream traverses the western edge of the project site. Upon site reconnaissance, MBC determined that the stream is a very weak ephemeral stream with a barely discernable OHWM. The channel is approximately one to two feet wide with no adjacent wetlands. A marginal seasonal wetland feature is located to the east of the blue-line stream, located in a low valley between two notable hillslopes. Vegetation associated with the seasonal wetland includes perennial ryegrass, creeping wild rye, curly dock, a few other marginal hydrophytes, and some upland species including black mustard and common bedstraw. The southern end of the seasonal wetland abruptly transitions to a defined channel with a notable bed and bank that would also be considered a 0.01-acre ephemeral stream. The channel is approximately three feet wide with no adjacent wetlands. MBC did not identify any riparian vegetation or habitat associated with the foregoing features.

MBC conducted a wetland delineation of the project on April 3, 2020 and April 29, 2020. A total of approximately 0.21-acres of wetlands have been delineated on-site. The delineated features include the approximately 0.19-acre seasonal wetland and 0.02-acre of ephemeral streams. The water features are respectively labeled SW-1, ES-1, and ES-2 on the Wetland Delineation Map included as part of the PSR (see Figure 10).

The proposed project includes mitigation measures to ensure that the proposed project would fully avoid development on or near the wetland features, such as the proposed implementation of 25-foot setbacks between such water features and the limits of grading. Furthermore, as mentioned previously, the wetland features would be excluded from the development area and preserved in perpetuity as part of the open space area. Nonetheless, the potential exists for construction and operations within the development area to have a ***potentially significant*** impact regarding riparian habitat, seasonal wetlands, or vernal pools as defined by Section 404 of the Clean Water Act, or regarding a substantial adverse effect on a riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS.

Figure 10
Wetland Delineation



Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 7. *The proposed project shall be designed in compliance with stream setback requirements set forth in Conservation Measures 1.7 and 2.12 of the ECCCHCP/NCCP, including the following avoidance and minimization measures:*

- *All wetlands to be avoided by covered activities shall be temporarily staked in the field by a qualified biologist, and a 25-foot buffer zone shall be implemented along the seasonal wetland swale and between the ephemeral streams and development activities.*
- *Herbicides shall not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In such a case, herbicides that have been approved by the EPA for use in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides shall be applied to the ruderal grassland within the buffer area during the dry season to control non-native invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.*
- *Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the ephemeral streams or the seasonal wetland swale shall be trained by a qualified biologist in the avoidance and minimization measures set forth by this IS/MND and the permit obligations of the project proponents working under the ECCCHCP.*

Mitigation Measure 8. *Vehicles and equipment shall be parked on pavement, existing roads, and previously disturbed areas. No construction or maintenance vehicles shall be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill. In addition, trash generated during project construction shall be promptly removed from the site.*

Mitigation Measure 9. *The proposed project shall be implemented in compliance with the hydrologic maintenance and erosion minimization measures set forth in Conservation Measures 1.10 and 2.12 of the ECCCHCP/NCCP. Standard construction best*

management practices (BMPs) shall be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs shall include the use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences, or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

Appropriate erosion-control measures (e.g. fiber rolls, filter fences, vegetative buffer strips) shall be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh shall be of material that shall not entrap reptiles or amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Fiber rolls used for erosion control shall be certified as free of noxious weed seed. Seed mixtures applied for erosion control shall not contain invasive non-native species, and shall be composed of native species or sterile non-native species.

d. Would the project interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?.....Less-Than-Significant Impact

Discussion (d.)

The proposed project site is bordered by Mitchell Canyon Road to the east and is surrounded by single-family residential development on the site's northern and western borders. A CEMEX quarry plant is located adjacent to the vacant land that borders the project site to the south. Such uses act as impediments to wildlife movement, and the project site does not provide connections to any nearby areas of high quality habitat. Although the ECCCHCP/NCCP mapped the project site as within a region of potential movement habitat for the Alameda whipsnake and western pond turtle, upon site reconnaissance, MBC determined that the project site does not contain the mosaic of scrub, chaparral, grassland, or woodland habitat required by the Alameda whipsnake, nor does the project site maintain a hydrological regime capable of supporting western pond turtle. The limited on-site habitat reduces the likelihood that the project site would be used for movement of the Alameda whipsnake or western pond turtle. Although the site could be used for scattered nesting of various raptor species, the site is not known to act as a substantial wildlife nursery site. Furthermore, the open space area of the site would continue to provide habitat for nesting species with implementation of the project. As such, the proposed project would not interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites. Therefore, a ***less-than-significant*** impact would occur.

e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?..... ..... Less-Than-Significant With Mitigation Incorporated

Discussion (e.)

The proposed project would be required to comply with all relevant policies and ordinances of the City of Clayton, including the Tree Protection Ordinance (Chapter 15.70 of the Municipal Code). The Tree Protection Ordinance calls for the protection of certain species of trees, and a Tree Removal Permit is required when removal of any tree with a trunk diameter of six inches or greater is proposed. An Arborist Report was prepared by Trees, Bugs, Dirt Landscaping Consulting and Training for the project site to inventory all on-site trees and make recommendations regarding tree preservation and removal based on tree health, structural condition, and location.[8] The Arborist Report evaluated a total of 58 trees, which included 36 trees with trunks located on-site, 18 trees located on adjacent properties bordering the project site, and four trees with trunks embedded along various fences surrounding the project site. A total of 37 trees are slated for removal. Thirty-four of the 37 trees proposed for removal are protected pursuant to the City's Tree Preservation Ordinance. It should be noted that approximately 26 of the 34 protected trees were determined to have various indicators of poor health and would be recommended for removal regardless of ground-disturbing activities associated with the proposed project.

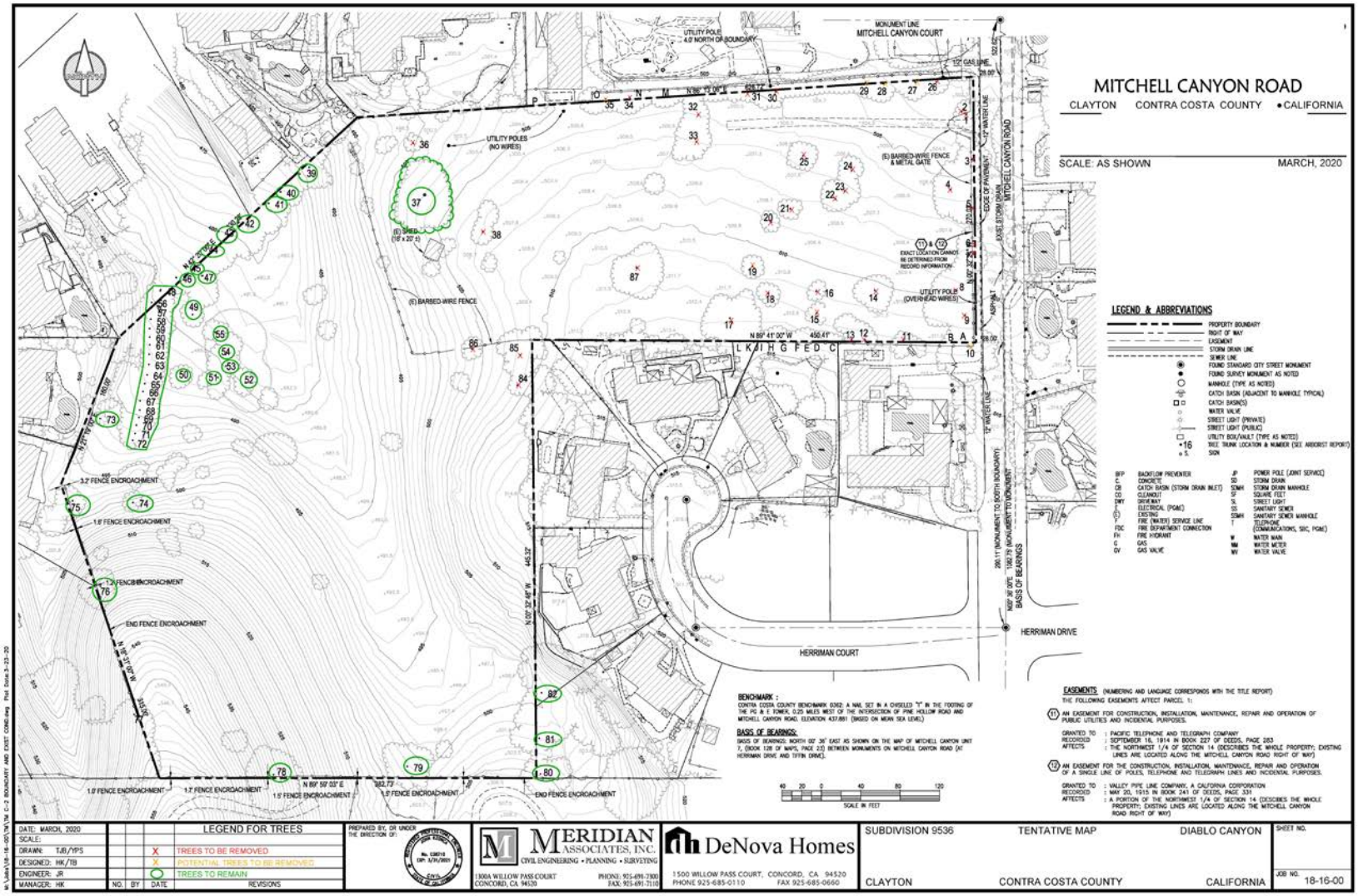
A large blue oak tree (Tree #37 per the Arborist Report) would be preserved within the development area as part of Lot 7 (see Figure 11).

The planting of replacement trees or payment of an in-lieu fee is required for trees designated as protected trees per Chapter 15.70 of the City's Municipal Code. As noted above, 26 of the protected trees proposed to be removed are in poor health and would be recommended for removal in any case. The other 8 protected trees proposed for removal are considered to be in good or excellent health. The cumulative tree diameter of those healthy trees is 152 inches. The City's Municipal Code Section 15.70.035 allows for discretion regarding the requirement for a tree replacement plan. Section 15.70.040 indicates that replacement may be determined based upon 50% of the cumulative trunk diameter of the removed trees (i.e. 76 inches), or 33% of the cumulative trunk diameter of the removed trees (i.e. approximately 50 inches) if the replacement trees are of a variety listed in Section 15.70.015 C. Additionally, Section 15.070 allows the payment of an in-lieu fee if it is determined that the limitations of the site cannot accommodate the entirety of the tree replacement.

The arborist report includes recommendations to protect preserved trees during construction. Without implementation of protection measures, the proposed project could conflict with policies protecting biological resources, and could result in a ***potentially significant*** impact.

[8] Trees, Bugs, Dirt Landscape Consulting and Training. *Arborist Report: Diablo Canyon, Mitchell Canyon Road, Clayton, CA.* April 30th, 2020.

Figure 11
Tree Exhibit



Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 10. *The following tree protection measures for tree to remain shall be implemented pursuant to the recommendations listed in the Arborist Report, to the extent feasible:*

- *The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the existing trees to be retained, as identified in the Arborist Report;*
- *A five-foot tree protection zone shall be established from the northern and southern fence lines extending into the development area where no foot, vehicle, storage, or any other intrusion shall be allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within the tree protection zone;*
- *Landscaping around the protected oak (Tree #37) on-site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface;*
- *Installation of fences along the northern and southern borders shall adhere to tree protection measures to the greatest extent possible and avoid grading or digging within five radial feet of all protected tree trunks;*
- *New trees shall be selected, installed, and maintained as per requirements of the City of Clayton; and*
- *If a new fence line is established for the property, rather than demolishing and reinstalling the existing fence line, four border trees shall be preserved if feasible.*

Mitigation Measure 11. *Prior to the initiation of ground-disturbing activities, the potential for root damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Air spading around trees to be retained shall be performed along property lines within the northern and southern portions of the project site;*
- *All exposed roots shall be pruned using sharp sawzall blades;*
- *Pruned roots shall be covered with soil.*

Mitigation Measure 12. *Prior to the initiation of ground-disturbing activities, the potential for crown damage shall be minimized through compliance with the following recommendations listed in the arborist report:*

- *Crowns shall be raised as specified to allow for vehicle and equipment clearance:*
  - *Crowns shall be raised 16 feet above the existing grade;*
  - *50 percent of live crown ratio shall be maintained;*
  - *Thinning cuts shall be made two inches in diameter or smaller;*
  - *Downward growing branches from zero to 15 feet above grade shall be removed;*
  - *Branches larger than two inches in diameter shall be shortened by heading the branches back to at least half of their diameters; and*
  - *No more than 25 percent of a crown is to be removed in one season.*

Mitigation Measure 13. *A tree replacement plan for the removal of 152 inches of cumulative trunk diameter of protected tree species shall be prepared in accordance with Municipal Code Section 15.070.040 A1.or A.2., or, subject to determination by the Community Development Director or Planning Commission, the applicant must pay an in-lieu fee to the City for the purchase and installation of trees of equivalent value.*

f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan? ..... Less-Than-Significant-Impact

Discussion (f.)

The ECCCHCP/NCCP was prepared in 2007 and the City of Clayton became a signatory in January 2008. The ECCCHCP/NCCP is intended to provide a coordinated, regional approach to special-status species conservation and development regulation. A total of 28 species are covered under the ECCCHCP/NCCP. The ECCCHCP/NCCP provides streamlined permits from the USFWS and CDFW for covered species for new urban development projects and a variety of public infrastructure projects. Development fees within the ECCCHCP/NCCP area are assessed based on fee zones and land cover types.

A PSR has been prepared for the proposed project in order to comply with and receive permit coverage under the ECCHCP/NCCP. Per the PSR, the project site is located within Development Fee Zone 2. As noted previously, the site comprises three field-verified land cover types: 8.07 acres of annual grassland, 0.19 acres of seasonal wetland, and 0.02 acres of aquatic stream. As required by Mitigation Measure 1, the proposed project would be

subject to pay all applicable fees according to the Fee Zone Map of the ECCCHCP/NCCP prior to construction. Therefore, the project would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan, and a ***less-than-significant*** impact would result from the proposed project.

5. CULTURAL RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	□	□	X	□
b.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	□	X	□	□
c.	Disturb any human remains, including those interred outside of dedicated cemeteries.	□	X	□	□

a. Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?.....Less-Than-Significant

Discussion (a.)

The project site is primarily undeveloped, with the exception of an existing shed on-site that has not been identified as a historic resource. The site is not included in the Historical Sites listed in the City of Clayton General Plan or indicated in Exhibit V-3 of the General Plan Community Design Element. As such, the proposed project would not cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5; and a ***less-than-significant*** impact would occur.

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5? ... Less-Than-Significant With Mitigation Incorporated

c. Disturb any human remains, including those interred outside of dedicated cemeteries? Less-Than-Significant With Mitigation Incorporated

Discussion (b. and c.)

An archaeological resources review was conducted by Basin Research Associates (BASIN) for the project site.[9] The review included the results of records searches, a review of pertinent literature, and a request to the Native American Heritage Commission (NAHC) for a review of the Sacred Lands Inventory. In addition, a prehistoric and historic site record and literature search was conducted by the California Historical Resources Information System (CHRIS) Northwest Information Center at California State University for a 0.25-mile radius around the project site. A field review of the parcels was not undertaken.

The Contra Costa General Plan Archaeological Sensitivity Map shows the proposed project and vicinity as "largely urbanized areas and publicly owned lands excluded from [the] archaeological sensitivity survey."[10] The project site is located in proximity to nearby

[9] BASIN Research Associates. *Archaeological Resources Review – Mitchell Canyon Road Development, Clayton, Contra Costa County, California.* August 9, 2019.

[10] Contra Costa County. *General Plan, Open Space Element, Figure 9-2: Archaeological Sensitivity Map*. [pg. 9-11] January 18, 2005.

Mitchell Creek, located east of Mitchell Canyon Road. Water courses and springs were often focus points for Native American activity in the region. While the project site is located in proximity to a water source, resource procurement sites for food, raw materials, and/or prominent topographic features that would indicate historical Native American activity have not been recorded within the project site or in the project vicinity. CHRIS records search results indicated that neither recorded prehistoric and historic area cultural resources nor any known ethnographic, traditional, or contemporary Native American use areas and/or features of cultural significance exist within, adjacent to, or within 0.25-mile of the project site. Furthermore, a Sacred Lands File search conducted by the NAHC in 2019 returned negative results for Native American tribal resources on-site. Because cultural and/or archeological resources were not identified by the literature review, BASIN determined the likelihood of discovering such artifacts, in addition to significant subsurface cultural materials, would be low.

Although the likelihood of disturbing prehistoric and historic era cultural resources is low, unknown archaeological resources, including human remains, have the potential to be uncovered during ground-disturbing construction and excavation activities at the project site. If previously unknown resources are encountered during construction activities, the proposed project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to CEQA Guidelines Section 15064.5 and/or disturb human remains, including those interred outside of dedicated cemeteries. Therefore, the proposed project could result in a ***potentially significant*** impact to such resources.

Mitigation Measure(s)

The following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 14. *Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.*

Mitigation Measure 15. *Pursuant to State Health and Safety Code §7050.5(c) and State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native*

American, the Coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the Most Likely Descendant (MLD). The MLD shall work with the contractor to develop a program for re-internment of the human remains and any associated artifacts. Additional work shall not take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.

6. ENERGY

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	□	□	X	□
b.	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	□	□	X	□

a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? .....Less-Than-Significant

b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? .....Less-Than-Significant

Discussion (a. and b.)

The main forms of available energy supply are electricity, natural gas, and oil. A description of the 2019 California Green Building Standards Code (CAL Green Code) and the Building Energy Efficiency Standards, with which the proposed project would be required to comply, as well as discussions regarding the proposed project's potential effects related to energy demand during construction and operations are provided below.

California Green Building Standards Code

The 2019 CAL Green Code is a portion of the CBC, otherwise known as the CAL Green Code (CCR Title 24, Part 11), which became effective on January 1, 2020.[11] The purpose of the CAL Green Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices. The provisions of the code apply to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure throughout California. Requirements of the CAL Green Code include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of Electric Vehicle charging infrastructure in residential and non-residential structures;
- Indoor water use consumption is reduced through the establishment of maximum fixture water use rates;
- Outdoor landscaping must comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), or a local ordinance, whichever is more stringent, to reduce outdoor water use;

[11] California Building Standards Commission. *California Green Building Standards Code*. 2019.

- Diversion of 65 percent of construction and demolition waste from landfills; and
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board.
- For some single-family and low-rise residential development developed after January 1, 2020, mandatory on-site solar energy systems capable of producing 100 percent of the electricity demand created by the residence(s). Certain residential developments, including those developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement.

Building Energy Efficiency Standards

The 2019 Building Energy Efficiency Standards is a portion of the CBC, which expands upon energy efficiency measures from the 2016 Building Energy Efficiency Standards. The 2019 Building Energy Efficiency Standards are in effect for building permit applications submitted after January 1, 2020. The 2019 standards provide for additional efficiency improvements beyond the 2016 standards. Non-residential buildings built in compliance with the 2019 standards are anticipated to use approximately 30 percent less energy compared to the 2016 standards, primarily due to lighting upgrades. For residential buildings, compliance with the 2019 standards will use approximately seven percent less energy due to energy efficiency measures compared to homes built under the 2016 standards. One of the improvements included within the 2019 Building Energy Efficiency Standards is the requirement that certain residential developments, including some single-family and low-rise residential developments, include on-site solar energy systems capable of producing 100 percent of the electricity demanded by the residences. Certain residential developments, including developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement; however, such developments are subject to all other applicable portions of the 2019 Building Energy Efficiency Standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use approximately 53 percent less energy than those under the 2016 standards.

Construction Energy Use

Construction of the proposed project would involve on-site energy demand and consumption related to use of oil in the form of gasoline and diesel fuel for construction worker vehicle trips, hauling and materials delivery truck trips, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to provide additional electricity demands for temporary on-site lighting, welding, and for supplying energy to areas of the site where energy supply cannot be met via a hookup to the existing electricity grid. Project construction is not anticipated to involve the use of natural gas appliances or equipment.

Even during the most intense period of construction, due to the different types of construction activities (e.g., site preparation, grading, building construction), only portions of the project site would be disturbed at a time, with operation of construction equipment occurring at different locations on the project site, rather than a single location. In addition, all construction equipment and operation thereof would be regulated per the CARB In-Use Off-Road Diesel Vehicle Regulation. The In-Use Off-Road Diesel Vehicle Regulation is

intended to reduce emissions from in-use, off-road, heavy-duty diesel vehicles in California by imposing limits on idling, requiring all vehicles to be reported to CARB, restricting the addition of older vehicles into fleets, and requiring fleets to reduce emissions by retiring, replacing, or repowering older engines, or installing exhaust retrofits. In addition, as a means of reducing emissions, construction vehicles are required to become cleaner through the use of renewable energy resources. The In-Use Off-Road Diesel Vehicle Regulation would therefore help to improve fuel efficiency for equipment used in construction of the proposed project. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to further reduce demand on oil and limit emissions associated with construction.

The CARB prepared the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan),[12] which builds upon previous efforts to reduce GHG emissions and is designed to continue to shift the California economy away from dependence on fossil fuels. Appendix B of the 2017 Scoping Plan includes examples of local actions (municipal code changes, zoning changes, policy directions, and mitigation measures) that would support the State's climate goals. The examples provided include, but are not limited to, enforcing idling time restrictions for construction vehicles, utilizing existing grid power for electric energy rather than operating temporary gasoline/diesel-powered generators, and increasing use of electric and renewable fuel-powered construction equipment. The CARB In-Use Off-Road Diesel Vehicle Regulation described above, with which the proposed project must comply, would be consistent with the intention of the 2017 Scoping Plan and the recommended actions included in Appendix B of the 2017 Scoping Plan.

Based on the above, the temporary increase in energy use occurring during construction of the proposed project would not result in a significant increase in peak or base demands or require additional capacity from local or regional energy supplies. In addition, the proposed project would be required to comply with all applicable regulations related to energy conservation and fuel efficiency, which would help to reduce the temporary increase in demand.

Operational Energy Use

Energy use associated with operation of the proposed project would be typical of residential uses, requiring electricity and natural gas for interior and exterior building lighting, heating, ventilation, and air conditioning (HVAC), electronic equipment, machinery, refrigeration, appliances, security systems, and more. Maintenance activities during operations, such as landscape maintenance, would involve the use of electric or gas-powered equipment. In addition to on-site energy use, the proposed project would result in transportation energy use associated with vehicle trips generated by the proposed residential development. The project would be required to include a solar photovoltaic system in accordance with Building Energy Efficiency Standards, which would reduce impacts on electricity and natural gas generated by the proposed project. All electrical and natural gas needs that could not be met by solar energy would be provided by PG&E.

[12] California Air Resources Board. *The 2017 Climate Change Scoping Plan Update.* January 20, 2017.

The proposed residential project would be subject to all relevant provisions of the most recent update of the CBC, including the CAL Green Code and the Building Energy Efficiency Standards. Adherence to the most recent CAL Green Code and the Building Energy Efficiency Standards would ensure that the proposed structures would consume energy efficiently through the incorporation of such features as efficient water heating systems, high performance attics and walls, and high efficacy lighting. Required compliance with the CBC would ensure that the building energy use associated with the proposed project would not be wasteful, inefficient, or unnecessary. In addition, California has set energy-use reduction goals targeting zero-net-energy use in all new homes by 2020. The CALGreen Code requires that new buildings use a combination of energy efficiency and distributed renewable energy generation to meet all annual energy needs. As such, the proposed residences would be constructed to incorporate renewable energy systems sufficient to meet 100 percent of the proposed residences' electricity demand. Required compliance with the CBC would ensure that the building energy use associated with the proposed project would not be wasteful, inefficient, or unnecessary.

With regard to transportation energy use, the proposed project would comply with all applicable regulations associated with vehicle efficiency and fuel economy. In addition, as discussed in Section 17, Transportation, of this IS/MND, the project area is currently provided transit service by the Central Contra Costa Transit Authority. The nearest bus stop relative to the project site is located at the Clayton Road/Mitchell Canyon Road intersection, approximately 0.5-mile north of the site. Transit would provide access to several grocery stores, restaurants, banks, and schools within close proximity to the project site. The site's access to public transit and proximity to such uses would reduce VMT and, consequently, fuel consumption associated with the proposed project, thereby providing for increased pedestrian connectivity with the surrounding area and resulting in reduced vehicle use.

Conclusion

Based on the context above, construction and operation of the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Thus, a ***less-than-significant*** impact would occur.

7. GEOLOGY AND SOILS.

Issues			Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:						
a.	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
	i.	Rupture of a known earthquake fault, as delineated on the most recent Alquist - Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	□	□	X	□
	ii.	Strong seismic ground shaking?	□	□	X	□
	iii.	Seismic-related ground failure, including liquefaction?	□	□	X	□
	iv.	Landslides?	□	X	□	□
b.	Result in substantial soil erosion or the loss of topsoil?		□	X	□	□
c.	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?		□	X	□	□
d.	Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial risks to life or property?		□	□	X	□
e.	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?		□	□	□	X
f.	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		□	□	X	□

a-i. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist - Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault? .....Less-Than-Significant Impact

a-ii. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?.....Less-Than-Significant Impact

a-iii. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction? .....Less-Than-Significant Impact

Discussion (a-i., a-ii, aiii.)

A Geotechnical Investigation was prepared for the proposed project by Stevens, Ferrone, & Bailey Engineering Company, Inc. (see Appendix C).[13] According to the Geotechnical Report, the proposed project site is not located within an Alquist-Priolo Fault Zone; however, large earthquakes have historically occurred in the San Francisco Bay Area. The nearest active fault is the Greenville Fault, located approximately one mile east of the site. Other active faults in the region include the Concord, Calaveras, Cordelia, Green Valley, Hayward, and San Andreas faults. Given that none of the faults cross the project site, the potential for ground rupture is low.

An earthquake of moderate to high magnitude generated within the project region could cause considerable ground shaking at the site. Nonetheless, all structures proposed for the project would be designed in accordance with the requirements of the adopted edition of the CBC in place at the time of construction. Structures built according to the seismic design provisions of current building codes should be able to: 1) resist minor earthquakes without damage; 2) resist moderate earthquakes without structural damage but with some nonstructural damage; and 3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Consequently, as the proposed project would comply with all applicable CBC recommendations, the project would not be anticipated to result in the risk of loss, injury, or death due to structural collapse.

Liquefaction is a phenomenon in which saturated cohesionless soils are subject to a temporary loss of shear strength due to pore pressure build-up under the cyclic shear stresses associated with earthquakes. Soils that are most susceptible to liquefaction are lean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. Per the Geotechnical Investigation prepared for the project site, the site is located in an area that has been characterized as having very low to low liquefaction susceptibility based on the material types and densities of materials present on-site.

Therefore, the proposed project would not expose people or structures to substantial adverse effects including the risk of loss, injury, or death involving the rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zone Map, strong seismic ground shaking, and liquefaction, resulting in a ***less-than-significant*** impact.

[13] Stevens, Ferrone, & Bailey Engineering Company, Inc. *Geotechnical Investigation prepared for the Mitchell Canyon Development, Clayton, California, SFB Project No. 155-90.* February 28, 2020.

a-iv. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related landslides? ..... Less-Than-Significant Impact With Mitigation Incorporated

c. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? ..... Less-Than-Significant Impact With Mitigation Incorporated

Discussion (a-iv. and c.)

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. Because the potential for liquefaction was determined to be low, the potential for lateral spreading to pose a risk to the proposed development is low. However, general site surface grades slope gently downwards toward the north, with slope inclinations intensifying at higher elevations within the open space area and flattening within the lower elevations of the development site. The edge of the development area near the drainage channel contains a sloping open face, which may experience downward and lateral movements that could cause ground surface movements, including potential movement of any adjacent improvements such as foundations, utilities, pavements, driveways, walkways, curbs, and gutters. To reduce the potential for damaging movements, the Geotechnical Investigation recommends that slopes be appropriately restrained using an engineered retaining system, such as deepened curbs and foundations that are designed to resist lateral earth pressures and act as a retaining wall.

Seismically-induced landslides are triggered by earthquake ground shaking. The risk of landslide hazard is greatest in areas with steep, unstable slopes. According to the Geotechnical Report prepared for the proposed project, the topography of the development site slopes slightly toward the north but is generally flat. While the open space area contains steep slopes, the open space area would not be affected by grading or other construction-related activities. Furthermore, per the California Earthquake Hazards Zone Application, the project site is not located within a designated seismic hazard zone for landslides.[14] Thus, the proposed project would not be subject to substantial landslide risks.

Subsidence occurs when the earth's surface sinks due to settlement of soils during earthquake shaking, excessive groundwater extraction, and/or loose soil conditions. Groundwater extraction would not occur at the site; however, groundwater was encountered during a boring test near the drainage channel at a depth of about ten feet. During field explorations, layers of soft to stiff clays and silts with sand and gravel, as well as medium dense gravels, were encountered at depths of approximately four feet within the

[14] California Department of Conservation. *California Earthquake Hazards Zone Application.* Available at: https://maps.conservation.ca.gov/cgs/EQZApp/app/. Accessed August 2020.

northeast facing hillside in the open space area, and two feet in all other areas of the project site. The soft to firm soils that mantle the soil were determined to be weak and highly compressible. Therefore, on-site soils could experience measurable consolidation settlements. In order to minimize potential risks associated with compressible soils, the Geotechnical Report provides specific recommendations related to excavation standards.

Based on the above, if the recommendations within the Geotechnical Report related to compressible soils and lateral spread are not properly implemented during construction of the proposed project, the project could result in subsidence, and a ***potentially significant*** impact could occur as a result of the proposed project.

Mitigation Measure(s)
Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 16. *Prior to approval of the improvement plans for the project, all recommendations from the Geotechnical Report prepared for the project by Stevens, Ferrone, & Bailey Engineering Company, Inc (2020) shall be incorporated into the improvement plans to the satisfaction of the City Engineer. In addition, the applicant shall retain a California Registered Geotechnical Engineer to perform field observations during grading. Compliance with the recommendations of the Geotechnical Engineer shall be provided to the City Engineer.*

b. Would the project result in substantial soil erosion or the loss of topsoil? ... Less-Than-Significant With Mitigation Incorporated

Discussion (b.)
Construction of the proposed project would involve grading of the development footprint, including sloped portions of the project site, to accommodate the proposed site improvements. After grading, but prior to the overlaying of the ground surface with structures, topsoil of the disturbed portions of the site would be exposed, and the earth surfaces would be susceptible to erosion from wind and water. During the grading and excavation phases of construction, appropriate measures consistent with the Clayton Stormwater Management Ordinance and other applicable regulations (e.g., State Regional Water Quality Control Board National Pollutant Discharge Elimination System regulations) would be required to be implemented in order to control erosion on the site and minimize the impacts related to loss of topsoil. See Section 10, Hydrology and Water Quality, of this IS/MND for further discussion regarding the relationship of erosion to water quality.

The proposed project could result in soil erosion or the loss of topsoil associated with grading and excavation of the project site during construction. Therefore, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 17. *Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:*

- *Hydro-seeding;*
- *Placement of erosion control measures within drainage ways and ahead of drop inlets;*
- *The temporary lining (during construction activities) of drop inlets with "filter fabric";*
- *The placement of straw wattles along slope contours;*
- *Use of a designated equipment and vehicle "wash-out" location;*
- *Use of siltation fences;*
- *Use of on-site rock/gravel road at construction access points; and*
- *Use of sediment basins and dust palliatives.*

d. Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial risks to life or property? ..... Less-Than-Significant Impact

Discussion (d.)

Expansive soils are subject to shrinking and swelling as a result of seasonal fluctuations in soil moisture content, potentially resulting in heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Per the Geotechnical Report, the on-site soils were indicated to have a high shrink-swell potential and moderate potential for expansion. However, building damage due to volume changes associated with expansive soils may be reduced through proper foundation design. In order to minimize potential risks associated with expansive soils, the Geotechnical Report provides specific recommendations related to foundation design. As noted above, under question 'aiv' and 'c', the project would be required to implement Mitigation Measure 16, which requires recommendations from the Geotechnical Report be incorporated into the project improvement plans. Implementation of Mitigation Measure 16 would ensure that the recommendations within the Geotechnical Report related to expansive soils are properly implemented during construction. Thus, the proposed project would not create substantial direct or indirect risks to life or property related to being located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), and a ***less-than-significant*** impact would occur.

e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? ..... No Impact

Discussion (e.)

The proposed residences would be connected to the City of Clayton's sewer system and would not require the installation or use of septic tanks. Therefore, the proposed project would have ***no impact*** regarding having soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems.

f. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? ..... Less-Than-Significant Impact

Discussion (f.)

The City's General Plan does not note the existence of any unique geologic features or paleontological resources within the City. Consequently, implementation of the proposed project would not be anticipated to have the potential to result in direct or indirect destruction of unique geologic features.

In addition, the majority of the surrounding area is developed and paleontological resources are not known to have not been encountered in the vicinity. Thus, existing paleontological resources are not expected to occur on the site. Nonetheless, the potential exists for previously unknown paleontological resources to exist within the project site. Ground-disturbing activity such as grading, trenching, or excavating associated with implementation of the proposed project would have the potential to disturb or destroy such resources, if present. However, Mitigation Measures 14 and 15 require the appropriate actions be taken should any cultural resources, human remains, or bone of unknown origin be found within the project site during construction activities. With the implementation of Mitigation Measures 14 and 15, the proposed project would not result in the direct or indirect destruction of a unique paleontological resource, and a ***less-than-significant*** impact would occur.

8. GREENHOUSE GAS EMISSIONS

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	□	□	X	□
b.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	□	□	X	□

a. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?.....Less-Than-Significant Impact

b. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? .....Less-Than-Significant Impact

Discussion (a. and b.)

Emissions of greenhouse gases (GHGs) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Implementation of the proposed project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO_2) and, to a lesser extent, other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO_2 equivalents ($MTCO_2e$/yr).

The proposed project is located within the jurisdictional boundaries of BAAQMD. The BAAQMD threshold of significance for project-level operational GHG emissions is 1,100 $MTCO_2e$/yr or 4.6 $MTCO_2e$/yr per service population (population + employees). BAAQMD's approach to developing a threshold of significance for GHG emissions is to identify the emissions level for which a project would not be expected to substantially conflict with existing California legislation adopted to reduce statewide GHG emissions needed to move towards climate stabilization. If a project would generate GHG emissions

above the threshold level, the project would be considered to generate significant GHG emissions and conflict with applicable GHG regulations.

The quantitative thresholds above were adopted by BAAQMD in order to demonstrate a project's compliance with statewide emissions reduction targets established by the state legislature in Assembly Bill 32. Since adoption of the BAAQMD's thresholds of significance, the state legislature has passed Senate Bill (SB) 32, which established further statewide emissions targets. BAAQMD has not yet adopted thresholds that may be used to determine a project's compliance with SB 32. In the absence of adopted GHG emissions thresholds to assess compliance with SB 32, the BAAQMD has directed jurisdictions to qualitatively assess a project's compliance with the recommended mitigation measures within the *California's 2017 Climate Change Scoping Plan* (2017 Scoping Plan) as an alternative means of assessing a project's potential impacts related to GHG emissions.[15]

The proposed project's GHG emissions were quantified with CalEEMod using the same assumptions as presented in Section 3, Air Quality, of this IS/MND, and compared to the thresholds of significance noted above. The proposed project's required compliance with the 2019 California Building Energy Efficiency Standards Code was assumed in the modeling. In addition, the CO_2 intensity factor within the model was adjusted to reflect the PG&E's anticipated CO_2 emissions factor for the year 2023. All CalEEMod results are included in Appendix A to this IS/MND.

BAAQMD Thresholds

Construction GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change. Neither the City nor BAAQMD have an adopted threshold of significance for construction-related GHG emissions, nor do they require quantification. Nonetheless, the proposed project's construction GHG emissions have been estimated. The CalEEMod emissions estimates prepared for the proposed project determined that unmitigated project construction would result in total emissions of 440.61 $MTCO_2e$ over the course of the construction period.

The estimated maximum annual GHG emissions related to operations of the proposed project are presented in Table 4 below. As shown in Table 4, the project's maximum annual unmitigated operation GHG emissions were estimated to be approximately 182.60 $MTCO_2e$/yr. Thus, implementation of the proposed project would result in operational emissions well below the BAAQMD's applicable 1,100 $MTCO_2e$/yr threshold of significance for GHG emissions. Even if the total construction emissions are added to the annual operations emissions, the sum would be 623.21 $MTCO_2e$, which remains below the BAAQMD threshold of significance.

[15] Flores, Areana. Environmental Planner, Planning and Climate Protection. Personal communication [phone] with Jacob Byrne, Senior Associate/Air Quality Technician, Raney Planning and Management, Inc. September 17, 2019.

Table 4 Operational GHG Emissions	
Source	**GHG Emissions ($MTCO_2e$/yr)**
Area	0.22
Energy	26.33
Mobile	143.09
Waste	10.77
Water	2.18
Total Annual Operational GHG Emissions	**182.60**
BAAQMD Threshold	**1,100 $MTCO_2e$/yr**
Exceeds Threshold?	**NO**
Source: CalEEMod, August 2020 (see Appendix A).	

Consistency with 2017 Scoping Plan

Appendix B to the CARB's 2017 Scoping Plan provides examples of potentially feasible mitigation measures that could be considered to assess a project's compliance with the State's 2030 GHG emissions reductions goals. Thus, general compliance with the Local Actions within the 2017 Scoping Plan could be considered to demonstrate the project's compliance with SB 32. The project's consistency with the applicable Local Actions within the 2017 Scoping Plan is assessed in Table 5 below.

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
Construction	
Enforce idling time restrictions for construction vehicles.	CARB's In-Use Off-Road Vehicle Regulations include restrictions that limit idling time to five minutes under most situations. Construction fleets and all equipment operated as part of on-site construction activities would be subject to CARB's idling restrictions. As such, the proposed project would be required to comply with this measure.
Require construction vehicles to operate with the highest tier engines commercially available.	The project applicant has not committed to using construction equipment that complies with the highest tier engines commercially available. However, it should be noted that construction emissions would fall below the BAAQMD's thresholds. Nonetheless, project compliance with this measure is uncertain.
Divert and recycle construction and demolition waste, and use locally-sourced building materials with a high recycled material content to the greatest extent feasible.	The CALGreen Code requires the diversion of construction and demolition waste, and the proposed project would be required to comply with the requirements within the most up-to-date CALGreen Code. The project would not include any demolition activity. Thus, the project would be considered to comply with the suggested measure.
Minimize tree removal, and mitigate indirect GHG emissions increases that occur due to vegetation removal, loss of sequestration, and soil disturbance.	Of the 58 existing on-site trees, 37 trees are recommended for removal as part of the proposed project. However, pursuant to Chapter 15.70.040, Tree Replacement Plan, of the City's Municipal Code, the preliminary Landscaping Plan for the project site includes the provision of new trees as a means of

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
	replacement. As such, the project would comply with the suggested measure.
Utilize existing grid power for electric energy rather than operating temporary gasoline/diesel powered generators.	The contractor would use existing grid electricity to the extent feasible. However, the possibility exists that temporary generators will be used for electricity in instances where grid electricity is not accessible. Overall, the project would be considered to generally comply with the suggested measure.
Increase use of electric and renewable fuel powered construction equipment and require renewable diesel fuel where commercially available.	The project applicant has not committed to the use of alternatively fueled construction equipment. Furthermore, the commercial availability of renewable diesel in the project area is currently unknown. Consequently, compliance with this suggested measure is uncertain at this time.
Require diesel equipment fleets to be lower emitting than any current emission standard.	The project applicant has not committed to reducing emissions from the construction fleet beyond any current emissions standards. Consequently, compliance with this suggested measure is uncertain at this time.
Operations	
Comply with lead agency's standards for mitigating transportation impacts under SB 743.	As noted in Section 17, Transportation, of this IS/MND, the project would result in a less-than-significant impact related to VMT. Because buildout of the project would produce fewer residences than what was originally planned for the project site, project-generated VMT would be less than what was anticipated for the site by the General Plan. In addition, the project site's proximity to public transit would further reduce VMT. Thus, the project would be considered to comply with the suggested measure.
Require on-site EV charging capabilities for parking spaces serving the project to meet jurisdiction-wide EV proliferation goals.	Per the 2019 CALGreen Code, residential projects are required to install a listed raceway to accommodate a dedicated 208/240-volt branch circuit for each unit, which would be suitable for EV charging. Compliance with the 2019 CALGreen Code would ensure that the proposed project provides sufficient EV charging infrastructure to comply with this suggested measure.
Provide on- and off-site safety improvements for bike, pedestrian, and transit connections, and/or implement relevant improvements identified in an applicable bicycle and/or pedestrian master plan.	As part of the project, a new sidewalk would be provided along the project's Mitchell Canyon Road frontage and along the northern side of the internal street. In the vicinity of the project site, Mitchell Canyon Road provides a gravel pedestrian route. Development of the proposed sidewalk would increase connectivity to the nearby neighborhoods and public transit stops. The project would not include additions or changes to the existing bicycle infrastructure. Overall, the project would comply with the suggested measure. Additional discussion of bicycle, pedestrian, and transit facilities is provided in Section 17, Transportation, of this IS/MND.
Require on-site renewable energy generation.	The CBC requires that residential structures that are three-stories or less in height be constructed with

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
	renewable energy systems sufficient to provide 100 percent of the electricity required for the residence. The proposed single-family residences would be subject to such requirements. Due to the CBC's requirements regarding renewable energy systems for residential land uses, the proposed project would include on-site renewable energy generation and would comply with this measure.
Prohibit wood-burning fireplaces in new development, and require replacement of wood-burning fireplaces for renovations over a certain size development.	The proposed project would not include wood-burning fireplaces. Thus, the proposed project would comply with the suggested measure.
Require cool roofs and "cool parking" that promotes cool surface treatment for new parking facilities as well as existing surface lots undergoing resurfacing.	The 2019 Building Energy Efficiency Standards contains requirements for the thermal emittance, three-year aged reflectance, and Solar Reflectance Index (SRI) of roofing materials used in new construction and re-roofing projects. Such standards, with which the project would be required to comply, would help to reduce heating and cooling costs associated with the proposed project. Therefore, the proposed project would generally comply with the suggested measure.
Require solar-ready roofs.	The CBC requires that new residential structures be built with rooftop solar. Therefore, the proposed project would exceed the requirements of this suggested measure.
Require organic collection in new developments.	Solid waste, recycling, and yard waste collection services are provided to the City of Clayton by Republic Services. Thus, future residents of the proposed project would have access to such organic collection services, and the project would generally comply with the suggested measure.
Require low-water landscaping in new developments (see CALGreen Divisions 4.3 and 5.3 and the Model Water Efficient Landscape Ordinance [MWELO], which is referenced in CALGreen). Require water efficient landscape maintenance to conserve water and reduce landscape waste.	Landscaping within the project site would be required to comply with the CALGreen Code and all water efficiency measures therein, including the MWELO or any similar regulations adopted by the City of Clayton. Accordingly, the proposed project is anticipated to comply with this measure.
Achieve Zero Net Energy performance building standards prior to dates required by the Energy Code.	Through CBC requirements, such as the requirement to include on-site solar electricity for all proposed residences, the proposed single-family residences are anticipated to achieve Zero Net electricity. Therefore, the proposed project is anticipated to achieve substantial compliance with this measure.
Encourage new construction, including municipal building construction, to achieve third-party green building certifications, such as	The project applicant has not committed to achieving any third-party green building certifications. Consequently, compliance with the suggested measure is uncertain at this time.

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
the GreenPoint Rated program, LEED rating system, or Living Building Challenge.	
Expand urban forestry and green infrastructure in new land development.	The project would include landscaping throughout the site, and would include the planting and maintenance of several new trees, shrubs, and other plants. Therefore, the project would generally comply with the suggested measure.
Require the installation of electrical outlets on the exterior walls of both the front and back of residences to promote the use of electric landscape maintenance equipment.	Pursuant to California Electrical Code, Article 210.52(E), the project would be required to include at least one electrical outlet to be located in the perimeter of a balcony, desk, or porch. The project applicant has not committed to providing additional exterior electrical outlets to promote the use of electric landscape maintenance equipment. Consequently, the project would partially comply with the suggested measure.
Require the design of the electric outlets and/or wiring in new residential unit garages to promote electric vehicle usage.	The CBC requires that new residential unit garages be designed with wiring sufficient to provide future installation of electric vehicle charging infrastructure. Therefore, the proposed project would be required to comply with this measure.
Require the installation of energy conserving appliances such as on-demand tank-less water heaters and whole-house fans.	Title 20 and Title 24 of the California Code of Regulations require the use of energy efficient appliances and building systems. The proposed project would be required to comply with all applicable efficiency standards sets forth in Title 20 and Title 24 and, therefore, the project would substantially comply with the suggested measure.
Require each residential and commercial building equip buildings [sic] with energy efficient AC units and heating systems with programmable thermostats/timers.	As noted above, the proposed project would be required to comply with all energy efficiency standards set forth in Title 20 and Title 24 of the California Code of Regulations. As such, the project would generally comply with the suggested measure.
Require each residential and commercial building to utilize low flow water fixtures such as low flow toilets and faucets (see CALGreen Divisions 4.3 and 5.3 as well as Appendices A4.3 and A5.3).	The proposed project would be required to comply with the residential water efficiency regulations within the CALGreen Code. Thus, the proposed project would comply with the suggested measure.
Require the use of energy-efficient lighting for all street, parking, and area lighting.	All proposed exterior lighting would be LED type, consistent with the 2019 Building Energy Efficiency Standards. Thus, the proposed project would comply with the suggested measure.
Require the development project to propose an off-site mitigation project which should generate carbon credits equivalent to the anticipated GHG emission reductions. This would be implemented via an approved protocol for carbon credits from	The suggested mitigation measures included in the 2017 Scoping Plan are not considered to be requirements for local projects under CEQA, but instead represent options for projects to demonstrate compliance with the 2017 Scoping Plan. The inclusion of GHG off-set mitigation projects or the purchase of carbon credits is typically dependent on a project's exceedance of the

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	**Consistency Discussion**
California Air Pollution Control Officers Association (CAPCOA), the California Air Resources Board, or other similar entities determined acceptable by the local air district. The project may alternatively purchase carbon credits from the CAPCOA GHG Reduction Exchange Program, American Carbon Registry (ACR), Climate Action Reserve (CAR) or other similar carbon credit registry determined to be acceptable by the local air district.	previously identified quantitative GHG thresholds. However, BAAQMD has not identified quantitative SB 32 thresholds that could be used to determine whether the project's anticipated emissions would be such that an off-site mitigation project or purchase GHG reduction credits would be required in order to comply with SB 32. Considering that the project has been shown to be generally consistent with the foregoing measures, the City, in its discretion as lead agency, has chosen not to require the project to implement an off-site mitigation project or purchase GHG reduction credits.
Source: California Air Resources Board. AB 32 Scoping Plan [Appendix B]. Accessible at: https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed August 2020.	

As shown in the table above, the proposed project would comply with a majority of the suggested measures and, thus, the proposed project would be considered generally consistent with the 2017 Scoping Plan. Because the 2017 Scoping Plan is the CARB's strategy for meeting the State's 2030 emissions goals established by SB 32, the project would be considered to comply with the goals of SB 32.

Consistency with Plan Bay Area 2040

The San Francisco Bay Area's Plan Bay Area 2040 has been prepared jointly by the San Francisco Bay Area Metropolitan Transportation Commission (MTC) and the ABAG. Plan Bay Area 2040 is a regional plan intended to provide a strategy for the reduction of GHG emissions and air pollutants within the San Francisco Bay Area. The Plan Bay Area 2040 is a long-range plan that serves as a Regional Transportation Plan and Sustainable Communities Strategy (SCS). As an SCS, the Plan Bay Area 2040 is required to comply with regional targets for reducing GHG emissions through the integration of transportation and land use planning. ABAG has not provided a specified means of identifying an individual development project's compliance with the Plan Bay Area 2040. For the purposes of this analysis, the proposed project is compared to the overall goal of the Plan Bay Area 2040, which is to reduce regional GHG emissions through the reduction of transportation-related emissions.

The proposed project would include new and expanded sidewalks along the frontage of Michell Canyon Road, which would provide pedestrian connections for future residents to access surrounding neighborhoods and public transit stops. The nearest public transit stop is the Clayton Road and Mitchell Canyon Road bus stop, which is located approximately 0.5-mile north of the project site. The proposed project's pedestrian connectively and proximity to public transit would help to reduce VMT levels.

Because the project would not be considered to significantly contribute to an increase in regional VMT, the proposed project would be considered consistent with the Plan Bay Area 2040, and would not conflict with the regional GHG reduction targets therein.

Conclusion

Based on the above, the proposed project would not be considered to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs; and impacts would be considered ***less than significant***.

9. HAZARDS AND HAZARDOUS MATERIALS.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	□	□	X	□
b.	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?	□	X		□
c.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	□	□	X	□
d.	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	□	□	□	X
e.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	□	□	□	X
f.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	□	□	X	□
g.	Expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires?	□	□	X	□

a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?.....Less-Than-Significant Impact

Discussion (a.)

The proposed project would include operations associated with residential uses. Operations of residential uses do not involve the routine transport, use, or disposal of hazardous materials. Thus, during operations, the proposed project would not create any hazards to the public or the environment through routine transport, use, disposal, or reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment.

Construction activities would involve the use of heavy equipment, which would contain fuels, oils, and hydraulic fluid. In addition, various other products such as concrete, paints, and adhesives would likely be used on-site. However, the project contractor would be required to comply with all California Health and Safety Codes and local ordinances regulating the temporary handling, storage, and transportation of hazardous and toxic materials, as overseen by the California Environmental Protection Agency (EPA) and

Department of Toxic Substances Control (DTSC). Should an accidental release of hazardous materials occur during construction, the City (or City crews) and/or contractor, is required to notify the Contra Costa Fire Protection District (CCCFPD), who would then monitor the conditions and recommend appropriate remediation measures.

Based on the above, the proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, and a ***less-than-significant*** impact would occur.

b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment? ..... Less-Than-Significant Impact With Mitigation Incorporated

Discussion (b.)

The following discussion provides an analysis of potential hazards related to the existing on-site conditions and surrounding uses. The analysis of existing on-site conditions is based on a Phase 1 Environmental Site Assessment (ESA) conducted for the proposed project by AdvancedGeo (AGI) (see Appendix D).[16] The Phase I ESA includes findings from a Phase I and Phase II ESA prepared for the project site by AEI in 2019.

Historical uses of the project site consisted primarily of agricultural activities. Aerial photographs dating back to 1939 indicate that the project site was primarily used to farm orchards but was cleared of agricultural crops by the early 1980s. The site has since remained undeveloped. The 2019 Phase I ESA prepared by AEI indicated that agricultural chemicals such as pesticides, herbicides, and fertilizers related to the orchard may have been present within on-site soils at the time of site reconnaissance. Several soil samples were taken in September 2019 to screen for the presence of organochlorine pesticides (OCPs), metals, and petroleum hydrocarbons. Findings from the investigation indicated that metals, TPH, gasoline, diesel, and oil were present at very-low levels in on-site soils and below Environmental Screening Levels (ESLs). Arsenic was detected in five of the soil samples at concentrations above the residential Environmental Screening Level, but below the typical background concentrations for the region. In addition, lead was detected in five of the soil samples at background concentrations. Although the presence of potentially hazardous chemicals were determined to be present on-site, the 2019 Phase II ESA and the most recent Phase I ESA prepared for the proposed project determined that none of the identified chemicals were present in amounts sufficient to be considered a recognized environmental concern (REC).

Site reconnaissance for the project site was conducted by an AGI representative on February 20, 2020. The project site consisted primarily of undeveloped land with moderate growth of shrubs and trees. An approximately ten-foot by twenty-foot wooden shed was observed within the development site, as well as a water well. Absent information

[16] AdvancedGeo. *Phase 1 Environmental Site Assessment: Clayton Trust Property APNs 121-090-011-2 and 121-090-016-1, Clayton, California, Project No. 20-4996*. February 24, 2020.

regarding the depth, use, ownership, and geology of a well, the mere presence of a well could be considered a REC due to potentially being a safety hazard. Accordingly, without proper abandonment, the existing well could pose a hazard to the general public.

Asbestos is the name for a group of naturally occurring silicate minerals that are considered to be "fibrous" and, through processing, can be separated into smaller and smaller fibers. The fibers are strong, durable, chemical resistant, and resistant to heat and fire. They are also long, thin, and flexible, such that they can be woven into cloth. Because of the above qualities, asbestos was considered an ideal product and has been used in thousands of consumer, industrial, maritime, automotive, scientific, and building products. However, later discoveries found that, when inhaled, the material caused serious illness. For buildings constructed prior to 1980, the Code of Federal Regulations (29 CFR 1926.1101) states that all thermal system insulation (boiler insulation, pipe lagging, and related materials) and surface materials must be designated as "presumed asbestos-containing material" unless proven otherwise through sampling in accordance with the standards of the Asbestos Hazard Emergency Response Act. Although a small shed currently exists on the project site, AGI determined that evidence of asbestos-containing material was not present within the structure.

Lead-based paint (LBP) is defined by federal guidelines as any paint, varnish, stain, or other applied coating that has one milligram of lead per square centimeter or greater. Lead is a highly toxic material that may cause a range of serious illnesses, and in some cases death. In buildings constructed after 1978, the presence of LBP is unlikely. Structures built prior to 1978, and especially prior to the 1960s, are expected to contain LBP. Although a small shed currently exists on the project site, AGI determined that evidence of LBP was not present within the structure.

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to groundwater flow direction. The Phase I ESA analyzed historical uses of immediately adjoining properties and determined that adjacent properties have been primarily used for agriculture until the mid-1960s, when residential development commenced to the southeast of the project site. By the early 1990s, residential development had occurred on all sides except for the south, which remains currently undeveloped. A review of various environmental databases containing local, state, and federally recognized hazardous sites determined that current and historical surrounding uses did not pose an environmental risk to the project site. Therefore, impacts would be unlikely to occur.

In summary, impacts related to the release of agricultural chemicals or exposure of construction workers to asbestos or lead-based paint would not occur. However, the proposed project would necessitate the removal of an existing on-site water well. Without proper abandonment of the existing on-site water well, the proposed project could create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

The following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

Mitigation Measure 18. *Prior to initiation of any ground disturbance activities, the applicant shall hire a licensed well contractor to obtain a well abandonment permit from Contra Costa Health Services and properly abandon the on-site well to the satisfaction of the Contra Costa Health Services Department. Proof of abandonment shall be provided to the City of Clayton Community Development Department and City Engineer.*

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? ..... Less-Than-Significant Impact

Discussion (c.)

The project site is not located within one-quarter mile of any school. The nearest school is Mount Diablo Elementary School, located approximately 0.44-mile northeast of the project site. Therefore, the proposed project would result in a ***less-than-significant*** impact associated with emitting hazardous emissions or handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of a school.

d. Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? ..... No Impact

Discussion (d.)

The proposed project is not located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5,[17] and would not create a significant hazard to the public or the environment. Therefore, ***no impact*** would occur.

e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? ..... No Impact

[17] California Department of Toxic Substances Control. *EnviroStor*. Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed August 2020.

Discussion (e.)

The nearest airport to the proposed project site is the Buchanan Field Airport, located approximately eight miles to the west of the site. Therefore, the proposed project site is not located within an airport land use plan or within the vicinity or a public or private airport. As such, the project would not result in a safety hazard for people residing or working in the project area, and ***no impact*** would occur.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? .....Less-Than-Significant Impact

Discussion (f.)

The City of Clayton has an adopted Emergency Operations Plan, dated January 2012, which identifies the City's emergency planning, organizational, and response policies and procedures. The Emergency Operations Plan addresses how the City would respond to extraordinary events or disasters, including departmental Standard Operating Procedures. The primary exit routes out of the City to the north are Pine Hollow Road, Clayton Road, and Concord Boulevard. To the south, the primary exit route out of the City is Marsh Creek Road.

Although the proposed project would involve improvements to the Mitchell Canyon Road frontage, the improvements would not significantly impede vehicle traffic in the event of a major evacuation. In addition, during project construction, all equipment and materials would be staged on-site and would not substantially interfere with existing roadway operations. Furthermore, the proposed on-site roadway would provide adequate emergency access to future residents of the proposed development and emergency responders. Therefore, the proposed project would result in a ***less-than-significant*** impact associated with impairing implementation of, or physically interfering with, an adopted emergency response plan or emergency evacuation plan.

g. Would the project expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires? .....Less-Than-Significant Impact

Discussion (g.)

According to the Diablo Fire Safe Council, the City of Clayton and adjoining areas within a wildland urban interface (WUI) are at significant risk from wildfire. The WUI is defined as an area in which wildlands and communities are sufficiently close to each other to present a credible risk of fire spreading from one to another.[18] In compliance with the CBC (specifically Section 903.2.1.3, Group A-3), the design of the residences would include automatic fire sprinklers, and fire alarm systems would be incorporated pursuant to California Fire Code (CFC) requirements. Such features would help to address fire situations within the site, which would reduce the demand for fire protection services from the project site. Fire services to the Clayton area are provided by the CCCFPD, with the

[18] Diablo Fire Safe Council. *Clayton Morgan Territory Wildfire Action Plan: Public Review Draft*. January 25, 2016.

nearest station located approximately 1.3 miles east of the site by way of Mitchell Canyon Road and Clayton Road.

The proposed residential units are required to be designed in compliance with all applicable State and local standards and recommendations for new development, such as the CCCFPD's requirements for providing a water supply system for fire protection, and providing adequate emergency and fire access. Therefore, the proposed project would not expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires, and ***less-than-significant*** impact would occur.

10. HYDROLOGY AND WATER QUALITY

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	□	□	X	□
b.	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	□	□	X	□
c.	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	□	□	□	□
	i. Result in substantial erosion or siltation on- or off-site;			X	
	ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;			X	
	iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			X	
	iv. Impede or redirect flood flows?			X	
d.	In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?	□	□	□	X
e.	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	□	□	X	□

a. Would the project violate any water quality standards or waste discharge requirements? .....Less-Than-Significant Impact

Discussion (a.)

Water quality and runoff issues associated with construction and operation of the proposed project are discussed in detail below.

Construction

Per the Geotechnical Report prepared for the project site, near-surface soils on the project site were determined to have a very slow infiltration rate when thoroughly wet, thus indicating a high potential for stormwater runoff to contribute to substantial erosion. In addition, during the early stages of construction activities, topsoil would be exposed due to grading and excavation of the site. After grading and prior to overlaying the ground surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which could adversely affect water quality downstream.

The State Water Resources Control Board (SWRCB) regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a

land disturbance of one or more acres. The City's National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State's General Construction Permit prior to receipt of any construction permits. The State's General Construction Permit requires a Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the site. A SWPPP describes Best Management Practices (BMPs) to control or minimize pollutants from entering stormwater and must address both grading/erosion impacts and non-point source pollution impacts of the development project. Because the proposed project would disturb greater than one acre of land, the proposed project would be subject to the requirements of the State's General Construction Permit. Compliance with such requirements would minimize the potential for polluted runoff to leave the site during construction activities. Furthermore, Mitigation Measure 9, Mitigation Measure 10, and Mitigation Measure 11 of this IS/MND contain specific BMP requirements that the project applicant would be required to comply with during construction in order to protect the seasonal wetland and ephemeral stream features within the project site from impacts related to erosion.

Operation

The proposed residential uses would not involve operations typically associated with the generation or discharge of polluted water. Thus, typical operations on the project site would not violate any water quality standards or waste discharge requirements, nor degrade water quality. However, addition of the impervious surfaces on the site would result in the generation of urban runoff, which could contain pollutants if the runoff comes into contact with vehicle fluids on parking surfaces and/or landscape fertilizers and herbicides. All municipalities within Contra Costa County (and the County itself) are required to develop more restrictive surface water control standards for new development projects as part of the renewal of the Countywide NPDES permit.

The City of Clayton has adopted the County C.3 Stormwater Standards, which require new development and redevelopment projects that create or alter 10,000 or more sf of impervious area to contain and treat all stormwater runoff from the project site. Given that the proposed project would create approximately 37,001 sf of impervious area, the proposed project would be subject to the requirements of the SWRCB and the Regional Water Quality Control Board (RWQCB), including the C.3 Standards, which are included in the City's NPDES General Permit. Compliance with such requirements would ensure that impacts to water quality standards or waste discharge requirements would not occur during operation of the proposed project.

The Preliminary Stormwater Control Plan (SWCP) prepared for the proposed project conforms with the most recent Contra Costa Clean Water Program Stormwater C.3 Guidebook and verifies that the proposed project would comply with all City stormwater requirements. In compliance with the C.3 Guidebook, the proposed project would include two bio-retention basins (Basin A and Basin B) located in proximity to Mitchell Canyon Road and adjacent to the open space area, respectively (see Figure 12). Runoff from the developed portions of the site would be routed to the proposed bio-retention basins. The portion of the site that would remain in open space would be self-treating.

According to the Preliminary SWCP prepared for the project, the basins would be sized to exceed the minimum volume requirement necessary to adequately handle all runoff from the proposed impervious surfaces and landscaping (see Figure 12).

Bio-Retention Basin A: Runoff from pavement, rooftop and landscaped areas within Lots #1, #2, and Lots #16 through #18, would be directed to bio-retention Basin A located to the west of Mitchell Canyon Road and to east of Lot #1. Bio-retention Basin A is comprised of an irregular shaped landscape area of approximately 4,678 sf. Treated water from bio-retention Basin A would flow through a 12-inch storm drain and connect to an existing storm drain in Mitchell Canyon Road.

Bio-Retention Basin B: Runoff from Lots #3 through #15, including pavement, rooftop and landscaped areas, would be directed to Bio-retention Basin B, located adjacent to the western boundary of Lot #7 and to the east of the open space area. Treated water from Bio-retention Basin B would flow through an 18-inch storm drain and connect to a storm drain outfall located within the open space area. The storm drain outfall would incorporate an energy dissipator which would slow the release of discharged water to protect slopes within the open space area from erosion. Bio-retention Basin B is comprised of an irregular shaped landscape area of approximately 11,980 sf.

The bio-retention basins would remove pollutants primarily by filtering runoff slowly through an active layer of soil. The process of stormwater moving through the soil layers would remove pollutants from the stormwater prior to subsurface infiltration or discharge to City infrastructure. Each of the bio-retention basins would be designed and constructed according to criteria from the Contra Costa Clean Water Program Stormwater C.3 Guidebook. Specifically, the bio-retention basins would include 18-inch depth soil mix with minimum long-term percolation rate of five inches per hour, and a perforated pipe under drain would be bedded near the top with holes facing downward. In addition, the bio retention areas would be designed to accommodate runoff for treatment and hydro-modification as specified in the C.3 manual.

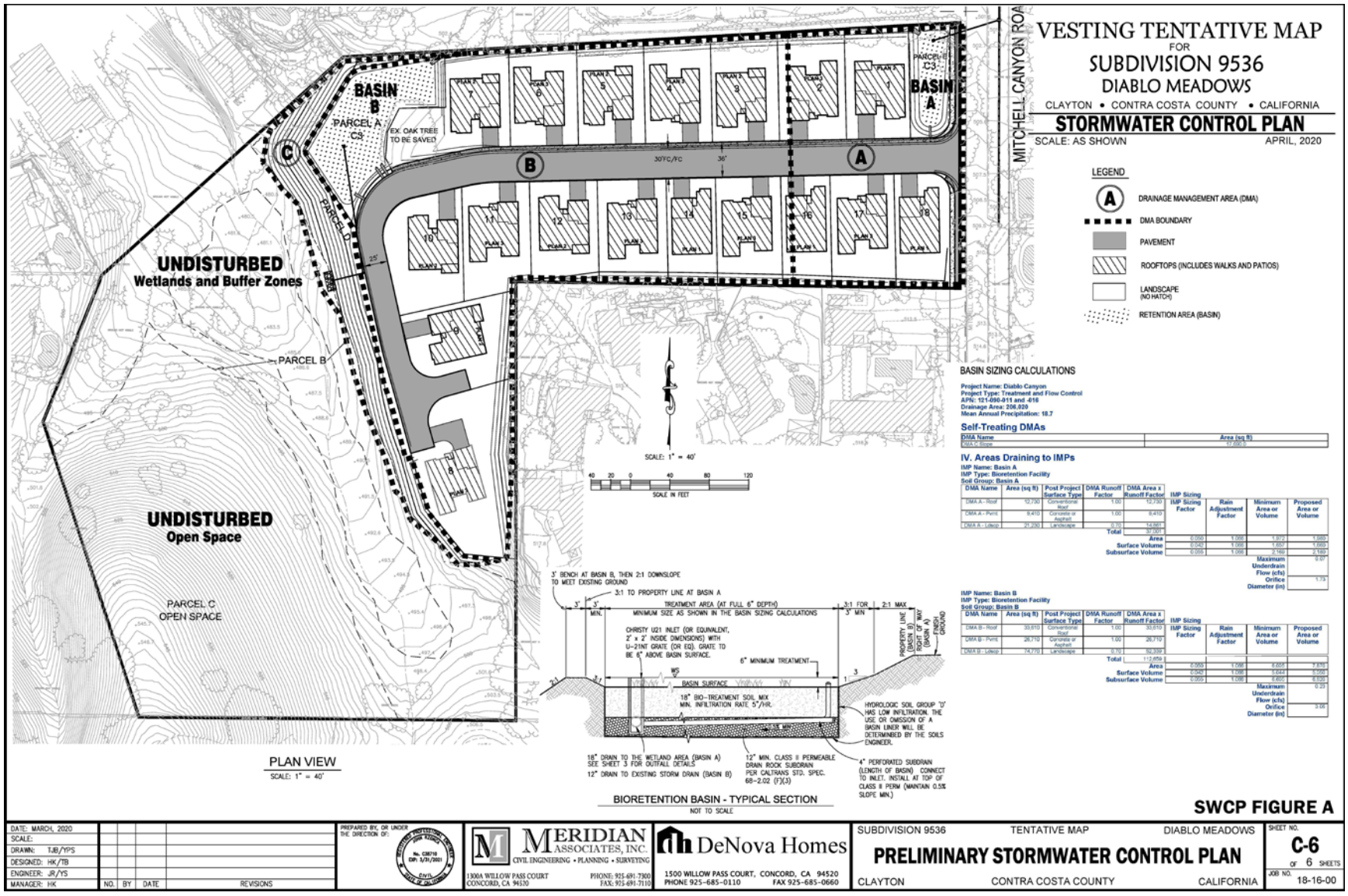
Based on the above, the proposed project would comply with the requirements of the SWRCB and the RWQCB, and would meet or exceed C.3 Standards. Therefore, during operation, the project would comply with all relevant water quality standards and waste discharge requirements, and would not degrade water quality.

Conclusion

Based on the Preliminary SWCP prepared for the proposed project, the project would comply with all applicable regulations during operation, does not involve uses associated with the generation or discharge of polluted water, and would be designed to adequately treat stormwater runoff from the site prior to discharge. Therefore, a ***less-than-significant*** impact would occur

.

Figure 12
Stormwater Control Plan



b. Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?.....Less-Than-Significant Impact

e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? .....Less-Than-Significant Impact

Discussion (b. and e.)

The Contra Costa Water District (CCWD) provides domestic water service to Clayton. The major source of CCWD water is the Sacramento River Contra Costa Water District Canal, not pumped groundwater. The construction of 18 new residential buildings and associated improvements would result in a net increase in impervious surfaces; however, the surface area would not be large enough to significantly affect groundwater recharge. Additionally, approximately 50 percent of the project site would remain in open space and the bio-retention areas within the development area would allow for stormwater to infiltrate into the surrounding soil, thereby allowing the continued contribution to groundwater recharge at the site.

As such, the proposed project would not substantially deplete groundwater supplies or recharge at the site such that the project may impede sustainable groundwater management of the basin and would not conflict with an applicable groundwater management plan or water quality control plan. Thus, a ***less-than-significant*** impact would occur.

ci. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site? .....Less-Than-Significant Impact

cii. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite? .....Less-Than-Significant Impact

ciii. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would

create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?.....Less-Than-Significant Impact

Discussion (ci., cii., and ciii.)

As discussed above, runoff from the impervious areas of the site would be collected and conveyed to the proposed bio-retention basins. Per the Preliminary SWCP, the bio-retention facilities would be designed to exceed the minimum volume needed to treat and control runoff from all proposed impervious surfaces. Therefore, despite the proposed project's increase in impermeable surfaces, the proposed project would not result in an increase in stormwater runoff leaving the site as compared to the runoff conditions that currently occur at the site. Furthermore, runoff entering the bio-retention basins would be able to partially infiltrate the soil in a similar manner to what currently occurs on the project site. Excess runoff not captured by the bio-retention area would be discharged to either the City's existing stormwater system or the on-site open space area through the stormwater outfall.

In order to ensure that the proposed project's stormwater treatment facilities remain adequate, long-term maintenance would be required. Routine maintenance of the facilities is necessary to ensure that infiltration of water is unobstructed, erosion is prevented, and soils are held together by biologically active plant roots. Proper operation and maintenance of the stormwater management facilities would be the sole responsibility of the property owner. In accordance with Clayton Municipal Code Section 13.12.050, implementation of an approved SWCP and submittal of an approved Stormwater Control Operation and Maintenance Plan by the applicant shall be a condition precedent to a final building inspection or the issuance of a certificate of occupancy. All inspections and remedial actions would be logged in a Stormwater BMP Inspection and Maintenance Log.

Based on the above, the proposed project would not substantially alter the existing drainage pattern of the site or area in a manner which would result in erosion, siltation, or flooding on- or off-site, create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or provide substantial additional sources of polluted runoff. Consequently, the proposed project would result in a ***less-than-significant*** impact.

civ. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would create or contribute runoff water which would Impede or redirect flood flows?.....Less-Than-Significant Impact

Discussion (civ.)

Based on the FEMA Flood Insurance Rate Map (FIRM) # 06013C0312F, dated June 16, 2009, the project site is within Zone X, which is described by FEMA as an area determined to be outside the 0.2 percent annual chance floodplain. In addition, dams or levees are not

located upstream of the proposed project site; thus, flooding due to dam or levee failure would not occur. Because the project site is not within a 100-year floodplain, the proposed project would not place housing or structures within a 100-year floodplain or expose people or structures to risks involving flooding. Therefore, impacts would be ***less-than-significant***.

d. If in flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation? ..... No Impact

Discussion (d.)

A seiche is defined as a wave generated by rapid displacement of water within a reservoir or lake, due to an earthquake that triggers land movement within the water body or land sliding into or beneath the water body. The project site is not located near a water body that is susceptible to seiche hazard. Furthermore, due to the distance from the project site to the nearest coastline the project site would not be subject to tsunami hazards. Therefore, the proposed project would not expose people or structures to a significant risk of loss, injury, or death involving seiche, tsunami, or mudflow, and ***no impact*** would occur.

11. LAND USE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Physically divide an established community?	□	□	□	X
b.	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	□	□	X	□

a. Would the project physically divide an established community? ..... No Impact

Discussion (a.)

The proposed project site is currently undeveloped and is absent of any housing or habitable structures. One shed and a water well are located within the northwestern portion of the development area. Currently, existing land uses in the project vicinity include single-family residences to the north, west, and east, across Mitchell Canyon Road, and the CEMEX quarry plant just beyond the vacant land that borders the project site to the south. The proposed residences would be compatible with the existing residential development in the project area. Given that the proposed project would involve construction on a currently undeveloped site, and would not involve any features that would divide an established community, the proposed project would not physically divide an established community and ***no impact*** would occur.

b. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?..... Less-Than-Significant Impact

Discussion (b.)

The proposed project includes a request to Rezone the site from R-15 to PD. The 8.68-acre project site has been anticipated for 25 medium-density residential units per the General Plan land use designation for the site.[19] However, due to the steep topography and sensitive environmental features within the western portion of the project site, residential development would only be feasible on approximately 4.62 acres of the project site. In order to preserve the natural open space features, as well as to meet the current General Plan density requirements, the requested Rezone would reduce the minimum number of allowable units on the entire project site to 18 single-family residences. In addition, the proposed project would not conflict with any City policies and regulations adopted for the purpose of avoiding or mitigating an environmental effect. For example, the proposed project would comply with the City of Clayton Noise Element, as demonstrated in Section 13 of the IS/MND. Additionally, as discussed in Section 4, Biological Resources, of this IS/MND, the proposed project would, with mitigation included, comply with Chapter

[19] City of Clayton. *City of Clay General Plan Section II: Land Use Element* [pg. 18]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.

15.70, Tree Protection, of the City's Municipal Code. As such, the project would not conflict with any applicable land use plans, policies, or regulations adopted for the purpose of avoiding or mitigating an environmental effect, and a ***less-than-significant*** impact would occur.

12. MINERAL RESOURCES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	□	□	□	X
b.	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	□	□	□	X

a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? ..... No Impact

b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? ..... No Impact

Discussion (a. and b.)

According to the Contra Costa County General Plan, the nearest mineral resource or mineral resource recovery site within the City of Clayton is the CEMEX quarry plant, located less than 0.3-mile south of the project site. Although the CEMEX quarry plant is located in close proximity to the project site, the project site has been previously designated for residential uses by the City of Clayton and is separated from the CEMEX quarry plant by existing residential uses. The project site is not known to contain mineral resources and is not designated as a mineral resource recovery site. As such, the project would not interfere with existing operations or access to such deposits. Therefore, the proposed project would have ***no impact*** to mineral resources.

13. NOISE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project result in:					
a.	Exposure of persons to or generation of noise levels in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies?	□	□	X	□
b.	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	□	□	X	□
c.	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	□	□	X	□
d.	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	□	X	□	□
e.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	□	□	X	□
f.	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	□	□	X	□

a. Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies? ..... Less-Than-Significant Impact

c. Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? .....Less-Than-Significant Impact

Discussion (a. and c.)

As discussed in the Transportation section of this IS/MND, operation of the project would result in a minor increase in traffic to the local roadway network, which would result in a slight increase in the ambient noise environment. The City's noise standards for outdoor and indoor spaces are set forth in Policy 2a of the Clayton General Plan, as follows: 45 Ldn for indoor noise level uses, and 60 Ldn for outdoor noise level. The day/night average level (L_{dn}) is based upon the average noise level over a 24-hour day, with a +10 decibel (dB) weighting applied to noise occurring during nighttime (10:00 PM. to 7:00 AM) hours. A total of 32 new peak hour vehicle trips on local roadways resulting from the project would not cause a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project. Furthermore, noise level increases would not be perceptible until they reach 3 dB or above, as compared to ambient noise levels, and the relatively minor increase in traffic volumes attributable to project-related vehicles would not be sufficient to result in a 3 dB increase in noise.

Therefore, the proposed project would not result in exposure of persons to or generation of noise levels in excess of standards established in the local General Plan, nor would the project result in a permanent increase in ambient noise levels in the project vicinity, and impacts would be considered ***less-than-significant***.

b. Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? .....Less-Than-Significant Impact

Discussion (b.)

Groundborne vibrations would be generated during construction of the proposed project. The development area of the site, where construction would take place, is bordered by residential land uses to the north, east, and west. For structural damage, the California Department of Transportation (Caltrans) uses a vibration limit of 0.5 inches/second, peak particle velocity (in/sec, PPV), for buildings structurally sound and designed to modern engineering standards; 0.2 in/sec PPV for buildings that are found to be structurally sound but where structural damage is a major concern; and a conservative limit of 0.08 in/sec PPV for ancient buildings or buildings that are documented to be structurally weakened. All surrounding structures are assumed to be structurally sound, but damage would be a concern; thus, the 0.2 in/sec PPV will be used as a threshold of significance for structural damage. The threshold of 0.1 in/sec PPV is also used by Caltrans as the threshold for human annoyance caused by vibration. Therefore, activities creating vibrations exceeding 0.1 in/sec PPV would impact sensitive receptors in nearby residences.[20] Table 6 presents typical vibration levels that could be expected from construction equipment at a distance of 25 feet.

Project construction activities, such as drilling, the use of jackhammers, and other high-power or vibratory tools, and rolling stock equipment (tracked vehicles, compactors, etc.), may generate groundborne vibration in the immediate vicinity. As shown in the table, jackhammers typically generate vibration levels of 0.035 in/sec PPV, and drilling typically generates vibration levels of 0.09 in/sec PPV at a distance of 25 feet. Vibration levels would vary depending on soil conditions, construction methods, and equipment used. The use of vibratory rollers may be required for construction of the proposed internal roadway; however, use of the vibratory roller would occur well over 25 feet from nearby existing residences.

Table 6
Vibration Source Levels for Construction Equipment

Equipment	PPV at 25 ft (in/sec)
Vibratory Roller	0.210
Large Bulldozer	0.089
Caisson drilling	0.089
Loaded trucks	0.076
Jackhammer	0.035
Small bulldozer	0.003

Source: Caltrans, Transportation and Construction Vibration: Guidance Manual. September 2013.

[20] Caltrans. *Transportation and Construction Vibration Guidance Manual*. September 2013.

Therefore, the maximum PPV that could occur during construction of the proposed project would be 0.1 in/sec PPV or less, which is below the 0.2 in/sec PPV significance threshold utilized for this analysis. The nearest vibration-sensitive receptors would be the existing surrounding residential uses. Although vibration generated by construction activities associated with the proposed project could be perceptible at nearby residences, the construction-generated vibrations would not be expected to result in structural damage to the residences associated with the proposed project.

Furthermore, construction is temporary and construction equipment would operate intermittently throughout the course of a day. Construction activities would be restricted to daytime hours per the City of Clayton Municipal Code Section 15.01.101 and would only occur over portions of the improvement area at a time.

Therefore, the project would not involve the exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels, resulting in a ***less-than-significant*** impact.

d. Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? ..... Less-Than-Significant With Mitigation

Discussion (d.)

Construction of the project would result in temporarily increased noise levels from grading and construction activities on the project site. Per Chapter 15 of the City's Municipal Code, construction activities would only be allowed during the permitted hours of 7:00 AM and 5:00 PM Monday through Friday. Any such work beyond said hours and days would be strictly prohibited unless previously authorized in writing by the City Engineer or by project conditions of approval. Noise associated with construction activities would include mechanical equipment such as earthmovers, dump trucks, and similar equipment which would be used to grade the site. After grading is complete, construction noise would include delivery of construction materials, construction of foundations, framing, roofing, and similar operations that would temporarily generate noise. Based on the Federal Highway Administration's Construction Noise Handbook, activities involved in typical construction would generate maximum noise levels up to 90 dB at a distance of 50 feet.[21] The nearest sensitive receptors to the construction noise would be the residences surrounding the project site. Construction activity would likely only occur over portions of the improvement area at a time. Because noise levels dissipate with distance from the source, noise levels received by the surrounding sensitive receptors would fluctuate depending on the distance of the noise source on the project site from the fixed location of the receptor. Although construction activities would only occur for a limited duration, project construction activities could generate noise levels that would result in temporary increases in ambient noise levels in the project vicinity. Therefore, the proposed project's impact would be considered ***potentially significant***.

[21] Federal Highway Administration. *Highway Traffic Noise: Construction Noise Handbook*. Updated 11/30/2015.

Mitigation Measure(s)

Implementation of the following mitigation measure would ensure that the above potential impact is reduced to a *less-than-significant* level.

Mitigation Measure 19. *During grading and construction, the project contractor shall ensure that the following measures are implemented:*

- *Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;*
- *The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and*
- *All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.*

e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? ..... Less-Than-Significant Impact

f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? ..... Less-Than-Significant Impact

Discussion (e. and f.)

The project site is not located near an existing airport and is not within an area covered by an existing airport land use plan. The nearest airport is Buchanan Airport, which is over eight miles away in unincorporated Contra Costa County, northwest of the City of Concord. Aircraft-related noise, if audible at the project site, would be minimal. Therefore, the proposed project would not expose people residing or working in the project area to excessive noise levels associated with air traffic and a ***less-than-significant*** impact would occur.

14. POPULATION AND HOUSING.

ISSUES		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)?	□	□	X	□
b.	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	□	□	□	X

a. Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)? .....Less-Than-Significant Impact

Discussion (a.)

The proposed project would include the development of 18 single-family homes and three ADU's, and, thus, would induce population growth. Using the Department of Finance average persons per household value for the City of Clayton of 2.72, the proposed project's addition of 18 residential units would result in approximately 58 new residents.[22] In comparison, buildout at the current zoning designation would result in a minimum of 25 residential units, which would permit approximately 68 new residents at the project site. The proposed project would result in ten fewer residents than was previously planned for the site. Because the site has been previously anticipated for residential development, no impacts related to unplanned growth would occur.

In addition, the Department of Finance estimates the 2019 population of Clayton, based on the 2010 Census, to be approximately 10,897.[23] The increase in population of 58 new residents would constitute a 0.53 percent increase in the City's population. A 0.53 percent increase in population would not be considered substantial growth. It should be noted that population growth itself does not constitute an environmental impact; rather, increased demands on the physical environment resulting from increases in population are considered environmental impacts. For example, increased demands on City services could require system upgrades that could have indirect environmental impacts. Physical environmental effects associated with development of the proposed project are evaluated throughout this IS/MND. For example, as discussed in Section 19, Utilities and Service Systems, of this IS/MND, adequate utility infrastructure would be available to support the proposed project. Consequently, a ***less-than-significant*** impact would occur in regard to the project inducing substantial unplanned population growth.

[22] California Department of Finance. *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2011-2019, with 2010 Benchmark.* Available at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed June 2020.

[23] *Ibid.*

b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? ..... No Impact

Discussion (b.)

The project site is currently undeveloped and absent of housing or other habitable structures. As such, implementation of the proposed project would not displace substantial numbers of housing or people, necessitating the construction of replacement housing elsewhere, and ***no impact*** would occur.

15. PUBLIC SERVICES.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:					
a.	Fire protection?	□	□	X	□
b.	Police protection?	□	□	X	□
c.	Schools?	□	□	X	□
d.	Parks?	□	□	X	□
e.	Other public facilities?	□	□	X	□

a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection? .....Less-Than-Significant Impact

b. Police protection? .....Less-Than-Significant Impact

Discussion (a. and b.)

The CCCFPD provides fire prevention, suppression, and emergency medical response for advanced and basic life support to nine cities, including Clayton, and much of the unincorporated territory in the central and western portions of Contra Costa County. The nearest fire station is located at 6500 Center Street, approximately 1.3 miles northeast of the project site by way of Mitchell Canyon Road. Police protection services would be provided for the project by the City of Clayton Police Department. The Police Department is located at 6000 Heritage Trail, which is approximately one mile north from the proposed project site.

The threshold for the impact, as identified in Appendix G of the CEQA Guidelines, is related to whether the project would result in substantial adverse physical impacts associated with the provision of new or physically altered fire or police facilities, the construction of which could cause significant environmental impacts in order to maintain acceptable service ratios or performance objectives. In the court case *City of Hayward v. Board of Trustees of the California State University*, the First District Court of Appeal affirmed that the focus of CEQA analysis should be limited to physical environmental impacts related to a project.[24] The court held that, "The need for additional fire protection services is not an *environmental* impact that CEQA requires a Project Proponent to mitigate."

[24] First District Court of Appeal. *City of Hayward v. Board of Trustees of the California State University*. (November 30, 2015) 242 Cal.App.4th 833.

Given the relatively modest amount of development included in the proposed project (18 single-family residential units and three ADUs), the project would not substantially increase demand for fire and police protection services such that construction of a new facility or expansion of an existing facility would be required. Furthermore, the entitlements being requested would result in a slightly reduced development potential for the project site. Moreover, the City of Clayton Municipal Code Chapter 3.18 establishes development fees to off-set any potential impacts on fire services from new developments. The developer is required to pay the fire protection fee prior to the issuance of a building permit for each unit.

Because the project would not necessitate new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire or police protection, a ***less-than-significant*** impact would result.

c. Schools?..... Less-Than-Significant Impact

Discussion (c.)

The City of Clayton is located within the Mt. Diablo Unified School District (MDUSD). Mt. Diablo Elementary and Diablo View Middle Schools serve the City of Clayton.

Because the proposed project would involve the construction and operation of 18 residential units, the project could add students to the MDUSD. However, the construction of 18 single-family residential units and three ADUs would not create a significant number of new K-12 students. Furthermore, the Leroy F. Greene Act requires the payment of impact fees to avoid potential impacts to school facilities. According to the Leroy F. Greene Act, payment of the necessary school impact fees for the project would be considered full and satisfactory CEQA mitigation. The Act prohibits local agencies from using the inadequacy of school facilities as a basis for denying or conditioning approvals of any "[…] legislative or adjudicative act […] involving […] the planning, use, or development of real property" (Government Code 65996[b]). Because the project applicant would be required to pay school impact fees to the MDUSD, the proposed project would have a ***less-than-significant*** impact on schools in the area.

d. Parks?.....Less-Than-Significant Impact

Discussion (d.)

The proposed project would include construction and operation of 18 residential units, and, thus, would result in a relatively modest increase in demand for parks and recreational facilities. The project site is located adjacent to several nearby City parks, including the Clayton Community Park, which would likely be used by future project residents. In addition, Mount Diablo State Park is located to the south of the site. Section 16.12 of the City of Clayton Municipal Code requires all new subdivisions to dedicate land, pay a fee in-lieu thereof, or both for park or recreational purposes. For projects with 50 parcels or less, such as the proposed project, the subdivider must pay a fee equal to the land value of the portion of the local park required to serve the needs of the project residents. Payment of in-lieu fees would help to fund recreational facilities within the City. Therefore, the proposed project would result in a ***less-than-significant*** impact to park facilities.

e. Other public facilities? .....Less-Than-Significant Impact

Discussion (e.)

The proposed project would increase demands for other general governmental services, including, but not limited to, libraries and general City maintenance services. However, given the limited amount of development proposed (18 single-family units and three ADUs), such increased demands would not be substantial. With payment of the required development impact fees by the project applicant, the proposed project would result in a ***less-than-significant*** impact in regard to such public facilities.

16. RECREATION.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	□	□	X	□
b.	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	□	□	X	□

a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? .....Less-Than-Significant Impact

b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? .....Less-Than-Significant Impact

Discussion (a. and b.)

The project site is located adjacent to several nearby City parks, including the Clayton Community Park, which would likely be used by future project residents. In addition, Mount Diablo State Park is located to the south of the site. As discussed in Section 15, Public Services, of this IS/MND, the proposed project would be subject to the payment of an in-lieu fee in accordance with the City of Clayton Municipal Code Section 16.12. The payment of fees would be used to upgrade and maintain existing facilities, as well as provide for future facilities. Furthermore, the proposed project would only include 18 residential lots. The limited number of anticipated residents at the site would not result in increased use of recreational facilities to such a degree that significant deterioration of existing facilities would occur or construction of new facilities would be required. Therefore, given that the proposed project would be subject to the payment of the City's in-lieu fee, the project would not increase the use of existing parks or recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated and the project would not include or require the construction or expansion of recreational facilities. Thus, a ***less-than-significant*** impact would occur.

17. TRANSPORTATION.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	□	□	X	□
b.	Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	□	□	X	□
c.	Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	□	□	□	X
d.	Result in inadequate emergency access?	□	□	X	□
e.	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	

a. Would the project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? .....Less-Than-Significant Impact

b. Would the project Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways? .....Less-Than-Significant Impact

Discussion (a.)

Primary access to the proposed project site would be provided by a new private roadway that would extend southwestward through the site from Mitchell Canyon Road.

The Institute of Traffic Engineer's (ITE) *Trip Generation Handbook* was used to estimate weekday AM, PM, and daily trip generation forecasts for the proposed project.[25] As shown in Table 7, implementation of the proposed project would be expected result in 193 new daily vehicle trips, with approximately 16 new AM and 20 new PM peak hour vehicle trips.

[25] Institute of Transportation Engineers. *Trip Generation Handbook, 9th Edition*. September 2012.

Table 7 Weekday Project Trip Generation Rates and Estimates											
			Daily	AM Peak Hour				PM Peak Hour			
Land Use	Units	Rate	Trips	Rate	In	Out	Total	Rate	In	Out	Total
Single Family Residential	18	9.52	171	0.75	3	10	14	1.00	11	7	18
ADUs[26]	3	7.32	22	0.46	1	1	2	0.56	1	1	2
Project Total			**193**	**N/A**	**4**	**11**	**16**	**N/A**	**12**	**8**	**20**
Note: AM and PM Peak Hour total trips may not match combined 'In' and 'Out' trips due to rounding. *Source: Institute of Transportation Engineers, 2012.*											

According to the Contra Costa Transportation Authority (CCTA) Congestion Management Plan (CMP), any land development application generating less than 100 peak hour trips is not required to prepare a study of its traffic impacts on the CMP network.[27] Because the proposed project would generate substantially less than 100 peak hour trips, preparation of a traffic study is not required, and the project would not be considered to conflict with the CCTA CMP.

The project area is currently provided transit service by the Central Contra Costa Transit Authority. The nearest bus stop relative to the project site is located at the Clayton Road/Mitchell Canyon Road intersection, approximately 0.5-mile north of the site. The construction of 18 single-family residences and three ADUs would not result in the need for expanded bus service in Clayton. The project does not include changes to existing bicycle infrastructure, or changes that would conflict with the use of bicycle facilities as an alternative means of transportation. With regard to pedestrian facilities, the project would include the construction of a sidewalk along the northern boundary of the proposed internal street within the project site, extending along the project frontage at Mitchell Canyon Road. Thus, the project would not conflict with transit, roadway, bicycle, or pedestrian facilities.

The project applicant would be required to pay off-site arterial street improvement impact fees to the City to offset congestion issues on local arterial roadways. Therefore, the proposed project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities and a ***less-than-significant*** impact would occur.

c. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? ..... No Impact

Discussion (b.)

Section 15064.3 of the CEQA Guidelines provides specific considerations for evaluating a project's transportation impacts, including impacts based on VMT beginning July 1, 2020. Per Section 15064.3, analysis of vehicle miles traveled (VMT) attributable to a project is the most appropriate measure of transportation impacts. A qualitative discussion of impacts

[26] Placer County. *Brady Vineyard Subdivision Project Draft EIR.* November 2019.

[27] Contra Costa Transportation Authority. *2019 Update of the Contra Costa Congestion Management Program* [page 72]. Adopted December 18, 2019.

based on VMT has been provided below in compliance with the most recent CEQA Guidelines.

As mentioned previously, single-family residential units generate approximately 9.52 vehicle trips per unit per day. Buildout of the project site at the current zoning designation would produce a minimum of 25 units and would result in approximately 238 average daily trips (ADT) from the project site. In comparison, the proposed project includes a request to Rezone the site, which would allow for a reduction in the minimum number of single-family residential units from 25 to 18. Buildout of 18 single-family residential units and three ADUs would generate approximately 193 ADT. Thus, the proposed project would be anticipated to produce 45 fewer daily vehicle trips than what would occur with buildout of the site as was originally planned by the City. Because fewer vehicle trips would be made from the site, VMT for the entire site would be reduced, and project-related VMT would be less than what has been anticipated for the site. Because the proposed project would produce less VMT than what was anticipated for the site in the City's General Plan, the proposed project would not result in any new or more severe impacts relate to citywide VMT.

Per Section 15064.3(3), a lead agency may also analyze a project's VMT qualitatively based on the availability of transit, proximity to destinations, etc. While changes to driving conditions that increase intersection delay are an important consideration for traffic operations and management, the method of analysis does not fully describe environmental effects associated with fuel consumption, emissions, and public health. Section 15064.3(3) changes the focus of transportation impact analysis in CEQA from measuring impact to drivers to measuring the impact of driving. For example, development of the proposed project would include pedestrian infrastructure within the project site, such as new sidewalks along the northern boundary of the proposed internal road and the project frontage of Michell Canyon Road. The proposed sidewalks could be connected to expanded sidewalk networks along Mitchell Canyon Road in the future, thus increasing connectivity to surrounding neighborhoods and public transit connections approximately 0.5-mile north of the site.

As mentioned previously, the project site is located in close proximity to alternative forms of transportation, including bus routes. The project area is currently provided transit service by the Central Contra Costa Transit Authority. The nearest bus stop relative to the project site is located at the Clayton Road/Mitchell Canyon Road intersection, approximately 0.5-mile north of the site. Transit would provide access to several grocery stores, restaurants, banks, and schools within close proximity to the project site. The site's access to public transit and proximity to such uses would reduce VMT and, consequently, fuel consumption associated with the proposed project, thereby providing for increased pedestrian connectivity with the surrounding area and resulting in reduced vehicle use.

Based on the above, the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b), and a ***less-than-significant*** impact would occur.

d. Would the project result in inadequate emergency access? .....Less-Than-Significant Impact

e. Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? .....Less-Than-Significant Impact

Discussion (c. and d.)

The proposed project does not include changes to existing roadways or the introduction of any design features that would be considered hazardous. The proposed project would provide an access point at Mitchell Canyon Road, which would provide sufficient emergency access to the site and would be designed in compliance with CCCFPD. As such, the project would not substantially increase hazards due to design features or incompatible uses, and emergency access to the site would be adequate. Therefore, the project would result in a ***less-than-significant*** impact.

18. TRIBAL CULTURAL RESOUCES

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:					
a.	Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k).	□	□	X	□
b.	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	□	□	X	□

a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)? ..... Less-Than-Significant Impact

b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe? ..... Less-Than-Significant Impact

Discussion (a. and b.)

As discussed in Section 5, Cultural Resources, of this IS/MND, the project site does not contain any existing permanent structures or any other known resources listed or eligible for listing in the California Register of Historical Resources, or in a local register of official resources as defined in Public Resources Code Section 5020.1(k), and does not contain known resources that could be considered historic pursuant to the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. Tribal cultural resources are generally defined by Public Resources Code 21074 as sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe. In compliance with Assembly Bill 52 consultation requirements, the City of Clayton sent notification letters to those tribes who had previously requested notification of projects in the City. Responses from such tribes have not been received to date. In the absence of information supplied by tribes, the City relied on other sources of information to determine

whether the project could cause a substantial adverse change in the significance of a tribal cultural resource.

A Sacred Lands File search, performed by the NAHC for the immediate project area, failed to indicate the presence of Native American cultural resources in the project area. Additionally, a search of the CHRIS was completed at the NWIC. As discussed in Section 5, Cultural Resources, of this IS/MND, the CHRIS search did not identify any cultural resources on the site. Given the negative results of the NAHC Sacred Lands File search, and the CHRIS search, as well as the City's compliance with Assembly Bill 52, tribal cultural resources are not expected to occur within the site. Although the project site is located in proximity to a water source, which were often focus points for Native American activity in the region, resource procurement sites for food, raw materials, and/or prominent topographic features that would indicate historical Native American activity have not been recorded within the project site or in the project vicinity.[28] Nevertheless, the possibility exists that development of the proposed project could result in a substantial adverse change in the significance of a tribal cultural resource if previously unknown tribal cultural resources are uncovered during grading or other ground-disturbing activities. However, Mitigation Measures 14 and 15 require that the appropriate actions be taken should any tribal cultural resources, human remains, or bone of unknown origin be found within the project site during construction activities. With the implementation of Mitigation Measures 14 and 15, the proposed project would not result in a substantial adverse change in the significance of a tribal cultural resource, and a ***less-than-significant*** impact would occur.

[28] BASIN Research Associates, 2019.

19. UTILITIES AND SERVICE SYSTEMS.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Would the project:					
a.	Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	□	□	X	□
b.	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	□	□	X	□
c.	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	□	□	X	□
d.	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	□	□	X	□
e.	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	□	□	X	□

a. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?.....Less-Than-Significant Impact

b. Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?.....Less-Than-Significant Impact

c. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?.....Less-Than-Significant Impact

Discussion (a., b., and c.)

Electricity, natural gas, telecommunications, water, and sanitary sewer services would be provided by way of new connections to existing infrastructure in the immediate project area. Brief discussions of water, sewer service, stormwater drainage, electrical, natural gas, and telecommunications that would serve the proposed project are included below.

Water

Potable water service for the project is required and would be made available by CCWD upon completion of financial arrangements and installation of all necessary water facilities to meet the requirements of residential use and fire protection, in accordance with current CCWD and CCCFPD standards. The project would include the connection of an on-site eight-inch water line to an existing water line within Mitchell Canyon Road.

According to the CCWD's 2015 Urban Water Management Plan (UWMP), the CCWD does not anticipated any supply deficits in normal years or single-dry years.[29] In future years, multiple dry-year conditions may result in supply shortfalls of up to approximately 30,000 acre-feet per year (af/yr), which equates to approximately 15 percent of the water demand. The CCWD's water supply reliability goal is to meet 100 percent of demand in normal years and a minimum of 85 percent of demand during a drought. Any potential supply shortfalls experienced during dry year conditions would be met through combination of a short-term conservation program or short-term water purchases. CCWD's currently available and planned supplies would be sufficient to meet the District's goal and estimated water demands during average, single-dry, and multiple-dry year conditions during the next 25 years. Given that the CCWD UWMP takes into account future buildout of the service area, and the proposed project's residential density is generally consistent with what has been anticipated for the site, the increase in water demand associated with the proposed project has generally been anticipated in the UWMP.

Given that the project would develop fewer units than what could be theoretically developed for the site under the current General Plan and zoning designations, increases in demand for water supplies associated with buildout of the site would be within the envelope of what has been previously anticipated by the City. In addition, the project design would be required to adhere to State Building Code standards for water conservation, such as low-flow plumbing fixtures, as well as the City's water-conserving guidelines for landscaping, as set forth in Chapter 17.80 of the Municipal Code. Therefore, the proposed project would not require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, and the project would have sufficient water supplies available to serve the project from existing resources.

Sewer Service

The wastewater collection system within the City of Clayton is owned by Clayton and maintained by the City of Concord. Concord has a contract with Central Contra Costa Sanitary District (CCCSD) to treat wastewater. The CCCSD treatment plant currently treats an average of 45 million gallons per day (MGD). The CCCSD treatment plant's permitted physical capacity is 54 MGD. According to the Growth Management Element of the City of Clayton's General Plan, the plant's maximum capacity of 54 MGD is projected to accommodate buildout until the year 2040.[30] Sewer infrastructure to serve the proposed

[29] Contra Costa Water District. *2015 Urban Water Management Plan for the Contra Costa Water District.* June 2016.

[30] City of Clayton. *City of Clayton General Plan Section XI: Growth Management Element* [page 16]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.
Email communication with Russell B. Leavitt. Engineering Assistant III. Central Contra Costa Sanitary District. May 04, 2016.

project would be extended within the on-site roadway from an existing sewer line located in Mitchell Canyon Road. Specifically, an eight-inch sanitary sewer line would be extended from an existing manhole within Mitchell Canyon Road and routed to the proposed lots.

Given the CCCSD treatment plant's current surplus capacity, and the fact that the project would result in a minimal increase in the demand for wastewater treatment capacity, adequate capacity exists to accommodate the slight increase in sewer demand that would be created by the proposed residential development. Therefore, the proposed project would not exceed treatment requirements of the RWQCB, and the CCCSD would be capable of serving the project's projected demand in addition to the CCCSD's existing commitments.

Stormwater Systems

Development of the proposed project would result in an increase in impervious surfaces on the project site, which would alter the existing drainage pattern of the site. Runoff from Lots #1, #2, and #16 through #18 and pavement from the eastern portion of the new internal roadway would drain to the bio-retention Basin A, east of Lot #1. The western portions of the new internal roadway and Lots #3 through #15, nearer to the open space area, would drain to bio-retention Basin B, located to the west of Lot #7 (see Figure 8). Runoff from undeveloped areas of the project site would remain unchanged and self-treating.

While the proposed project would alter the existing drainage pattern of the development area within the site, as discussed in the Hydrology and Water Quality section of this IS/MND, the project would be required to comply with C.3 Standards and include appropriate site design measures, source controls, and hydraulically-sized stormwater treatment measures. As a result, no net increase in stormwater drainage runoff from the site would be expected. In the absence of an increase in storm water drainage leaving the site, the proposed project would not require the construction of new off-site stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects.

Other Utilities

Electricity, natural gas, and telecommunications utilities would be provided by way of connections to existing infrastructure located within the immediate project vicinity. PG&E would provide electricity and natural gas services to the project site. The proposed project would not require major upgrades to, or extension of, existing infrastructure. Thus, impacts to electricity, natural gas, and telecommunications infrastructure would be less than significant.

Conclusion

Based on the above, the project would result in a ***less-than-significant*** impact related to the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects.

d. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? .....Less-Than-Significant Impact

e. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste? .....Less-Than-Significant Impact

Discussion (d. and e.)

Solid waste from the City of Clayton is disposed of at Keller Canyon County landfill. Keller Canyon Landfill covers 2,600 acres of land; 244 acres are permitted for disposal. The site currently handles 2,500 tons of waste per day, although the permit for the site allows up to 3,500 tons of waste per day to be managed at the facility. According to the California Department of Resources Recycling and Recovery (CalRecycle), the Keller Canyon Landfill has a remaining capacity of 63,408,410 cubic yards out of a total permitted capacity of 75,018,280 or 85 percent remaining capacity.[31] As such, adequate capacity exists to accommodate the relatively modest amount of waste that would be generated by the 18 proposed single-family residences.

The City is also required by Assembly Bill 939 to ensure that it achieves and maintains the diversion and recycling mandates of the State. Construction of the project would comply with the construction and demolition debris recycling requirements of Chapter 15.80 of the City's Municipal Code, which requires that a waste management plan be prepared for both demolition and new construction. The waste management plan must address all materials that would not be acceptable for disposal in the sanitary landfill. Therefore, as the project is required to comply with the City's Municipal Code, and sufficient capacity exists at the Keller Canyon Landfill, implementation of the proposed project would result in a ***less-than-significant*** impact related to solid waste services.

[31] California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary Details: Keller Canyon Landfill (07-AA-0032)*. Available at: https://www2.calrecycle.ca.gov/swfacilities/Directory/07-AA-0032. Accessed August 2020.

20. WILDFIRE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:					
a.	Substantially impair an adopted emergency response plan or emergency evacuation plan?	□	□	X	□
b.	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	□	□	X	□
c.	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	□	□	X	□
d.	Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	□	□	X	□

a. Substantially impair an adopted emergency response plan or emergency evacuation plan? .....Less-Than-Significant Impact

b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? .....Less-Than-Significant Impact

c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? .....Less-Than-Significant Impact

d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? .....Less-Than-Significant Impact

Discussion (a., b., c., and d.)

According to the CAL FIRE Fire and Resource Assessment Program, the project site is not located within a state responsibility area or lands classified as a Very High Fire Hazard Severity Zone (VHFHSZ).[32] However, the project site is immediately adjacent to the

[32] California Department of Forestry and Fire Protection. *Contra Costa County, Very High Fire Hazard Severity Zones in LRA*. January 7, 2009.

nearest VHFHSZ along the southern border of the project site. In addition, according to the Diablo Fire Safe Council, the City of Clayton and adjoining communities within a WUI are at significant risk from wildfire. The WUI is defined as an area in which wildlands and communities are sufficiently close to each other to present a credible risk of fire spreading from one to another.[33]

Fire services to the Clayton area are provided by the CCCFPD, with the nearest station to the site located on Center Street, approximately 1.3 miles northeast of the project site. The site is located within the city limits of Clayton, thereby placing the proposed project within the boundaries of the CCCFPD service area. The development of an internal private roadway would provide emergency access to and from the project site. Therefore, the proposed project would be adequately serviced by CCCFPD and would not substantially impair an adopted emergency response plan or emergency evacuation plan, as is previously discussed in Section 9, Hazards and Hazardous Materials, of this IS/MND.

Because the proposed development would be located in proximity to several slopes and open face areas, there are potential risks related to downslope or downstream flooding or landslides on existing and future residents and structures. High levels of stormwater runoff, which may in turn cause slope instability or changes in the site drainage pattern, would threaten the structural stability of the proposed residences or potentially induce landslides. To mitigate the potential impacts, the proposed project would include two on-site bio-retention basins which would capture stormwater runoff generated by new impervious surfaces and would contain enough capacity to treat excess stormwater during extreme weather events. Recommendations included in the Geotechnical Investigation prepared for the project site would effectively mitigate the potential impacts related to downward slopes and flooding, such as the implementation of an engineered retaining system which would include deepened curbs and foundations that are designed to resist lateral earth pressures.

The risk of uncontrolled spread of a wildfire or pollutant concentrations from a wildfire to the project site is further reduced by the proposed project's location near existing development to north, west, and east, which would act as a fire break from potential surrounding wildfires even in the event of strong prevailing winds or extreme weather events. Similarly, development of a portion of the project site from annual grasses, trees, and shrubs to residential land uses may reduce the site's potential fire hazard to surrounding residences. Although the proposed project would include the installation and maintenance of new infrastructure, including roads and utilities lines, the proposed residential units and associated improvements are required to be designed in compliance with all applicable State and local standards and recommendations for new development, such as the CCCFPD's requirements for providing a water supply system for fire protection and providing adequate emergency and fire access. In compliance with the CBC (specifically Section 903.2.1.3, Group A-3), the design of the residences would include automatic fire sprinklers and fire alarm systems. Such features would help to address fire situations within the site, which would reduce the demand for fire protection services. Compliance with the aforementioned statewide and local building standards would ensure that infrastructure improvements would not exacerbate fire risks.

[33] Diablo Fire Safe Council. *Clayton Morgan Territory Wildfire Action Plan: Public Review Draft*. January 25, 2016.

Therefore, although the project site is located in the vicinity of a VHFHSZ, the proposed project would be compliant with local and State standards ensuring adequate fire protection for new development and would be in close proximity to fire services within the City of Clayton. Based on the above, a ***less-than-significant*** impact would occur.

21. MANDATORY FINDINGS OF SIGNIFICANCE.

Issues		Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a.	Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	□	□	X	□
b.	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	□	□	X	□
c.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	□	□	X	□

a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? .....Less-Than-Significant Impact

Discussion (a.)

As discussed in Section 4, Biological Resources, of this IS/MND, while a limited potential exists for San Joaquin kit fox, western burrowing owl, golden eagle, white-tailed kite, and birds protected by the MBTA to occur on-site, implementation of Mitigation Measure 1 through Mitigation Measure 6 would ensure that any impacts related to special-status species would be reduced to a less-than-significant level.

In addition, the project site does not contain any known historic or prehistoric resources. Implementation of the proposed project is not anticipated to have the potential to result in impacts related to historic or prehistoric resources. Nevertheless, Mitigation Measure 14 and Mitigation Measure 15 would ensure that in the event that prehistoric resources are discovered within the project site, such resources would be protected in compliance with the requirements of CEQA and other State standards.

Considering the above, the proposed project would not degrade the quality of the environment, substantially reduce or impact the habitat of fish or wildlife species, cause fish or wildlife populations to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory. Therefore, a ***less-than-significant*** impact would occur.

b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? .....Less-Than-Significant Impact

Discussion (b.)

The proposed project, in conjunction with other development within the City of Clayton, could incrementally contribute to cumulative impacts in the area. However, as demonstrated in this IS/MND, all potential environmental impacts that could occur as a result of project implementation would be reduced to a less-than-significant level through compliance with the mitigation measures included in this IS/MND, as well as applicable General Plan policies, Municipal Code standards, and other applicable local and State regulations.

All cumulative impacts related to air quality, noise, and transportation are either less than significant after mitigation or less than significant and do not require mitigation. Given the scope of the project, any incremental effects would not be considerable relative to the effects of all past, current, and probable future projects. In addition, although the project includes a requested Rezone of the property, residential development of the site has been anticipated, and implementation of the project would result in a slightly less intense development than that which was anticipated in the City's planning documents (i.e., 18 residential units versus 25 units). Thus, the proposed project would not result in greater impacts compared to development of the site under the previously approved densities analyzed in the City's General Plan EIR. Therefore, when viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, development of the proposed project would not result in a cumulatively considerable contribution to cumulative impacts, and the project's incremental contribution to cumulative impacts would be ***less than significant***.

c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? .....Less-Than-Significant Impact

Discussion (c.)

As described in this IS/MND, the proposed project would comply with all applicable General Plan policies, Municipal Code standards, other applicable local and State regulations, and mitigation measures included herein. In addition, as discussed in Section 3, Air Quality, Section 7, Geology and Soils, Section 9, Hazards and Hazardous Materials,

and Section 13, Noise, of this IS/MND, the proposed project would not cause substantial effects to human beings, including effects related to exposure to hazardous materials and noise, after mitigation. Therefore, the proposed project would result in a ***less-than-significant*** impact.

STAFF AND SOURCES

Raney:

Cindy Gnos, Senior Vice President
Nick Pappani, Vice President
Angela DaRosa, Assistant Division Manager/Air Quality Specialist
Briette Shea, Associate
Jessica Chuidian-Ingersoll, Associate

City of Clayton:

Matthew Feske, Community Development Director
Christine Gregory, Consulting Planner
Milan J. Sikela, Jr., Assistant Planner
Scott Alman, P.E., City Engineer

The following documents are referenced information sources utilized for this analysis:

1. AdvancedGeo. *Phase 1 Environmental Site Assessment: Clayton Trust Property APNs 121-090-011-2 and 121-090-016-1, Clayton, California, Project No. 20-4996*. February 24, 2020.
2. BASIN Research Associates. *Archaeological Resources Review – Mitchell Canyon Road Development, Clayton, Contra Costa County, California*. August 9, 2019.
3. Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines.* May 2017.
4. California Air Resources Board. *The 2017 Climate Change Scoping Plan Update.* January 20, 2017.
5. California Building Standards Commission. *California Green Building Standards Code.* 2019.
6. California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed July 2020.
7. California Department of Conservation. *California Earthquake Hazards Zone Application.* Available at: https://maps.conservation.ca.gov/cgs/EQZApp/app/. Accessed August 2020.
8. California Department of Finance. *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2011-2019, with 2010 Benchmark.* Available at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed August 2020.
9. California Department of Forestry and Fire Protection. *Contra Costa County, Fire Hazard Severity Zones in LRA.* November 7, 2009.
10. California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary Details: Keller Canyon Landfill (07-AA-0032)*. Available at: https://www2.calrecycle.ca.gov/swfacilities/Directory/07-AA-0032. Accessed August 2020.
11. California Department of Toxic Substances Control. *EnviroStor*. Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed July 2020.
12. California Department of Transportation. *Scenic Highways*. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed July 2020.
13. City of Clayton. *Clayton 2020 General Plan.* As amended July 19, 2016.
14. City of Clayton. *City of Clayton General Plan Section XI: Growth Management Element* [page 16]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.

15. City of Clayton. *City of Clayton General Plan Section II: Land Use Element* [pg. 18]. Available at: https://ci.clayton.ca.us/community-development/planning/long-range-planning/. Accessed August 2020.
16. City of Clayton. *City of Clayton Municipal Code*. Available at: https://library.municode.com/ca/clayton/codes/municipal_code?nodeId=CICOCLCA. Accessed August 2020.
17. Contra Costa County. *General Plan, Open Space Element, Figure 9-2: Archaeological Sensitivity Map*. [pg. 9-11] January 18, 2005.
18. Contra Costa Transportation Authority. *2019 Update of the Contra Costa Congestion Management Program* [page 72]. Adopted December 18, 2019.
19. Contra Costa Water District. *2015 Urban Water Management Plan for the Contra Costa Water District*. June 2016.
20. Diablo Fire Safe Council. *Clayton Morgan Territory Wildfire Action Plan: Public Review* Draft. January 25, 2016.
21. East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan*. http://www.co.contra-costa.ca.us/depart/cd/water/HCP/. As updated October 2007.
22. East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan [p. 9-17]*. As updated October 2007.
23. Email communication with Russell B. Leavitt. Engineering Assistant III. Central Contra Costa Sanitary District. May 04, 2016.
24. Federal Highway Administration. *Roadway Construction Noise Model User's Guide.* January 2006.
25. Federal Transit Administration. *Transit Noise and Vibration Impact Assessment Guidelines.* May 2006.
26. First District Court of Appeal. *City of Hayward v. Board of Trustees of the California State University*. (November 30 ,2015) 242 Cal.App.4th 833.
27. Institute of Transportation Engineers, *Trip Generation Manual*, 9th Edition. 2012.
28. Moore Biological Consultants, *Application Form and Planning Survey Report, Diablo Meadows Development.* July 2020.
29. Placer County. *Brady Vineyard Subdivision Project Draft EIR.* November 2019.
30. Steven, Ferrone, & Bailey Engineering Company, Inc. *Geotechnical Investigation: Mitchell Canyon Development, Clayton, California SFB Project No. 155-90.* February 28, 2020.
31. Trees, Bugs, Dirt Landscape Consulting and Training. *Arborist Report: Diablo Canyon, Mitchell Canyon Road, Clayton, CA.* April 30th, 2020.

Appendix A
CalEEMod Modeling Results

Diablo Meadows Project

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	3.19	32,400.00	51
Other Asphalt Surfaces	0.74	Acre	0.74	32,234.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	257.69	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Acreage updated per site plan.

Construction Phase - Phase timing provided by applicant.

Grading - total acres graded adjusted per site plan

Demolition -

Vehicle Trips - trip rate adjusted for ITE trip generation rates 9th edition

Woodstoves - Per AQ questionnaire, no fireplaces proposed

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Diablo Meadows Project - Bay Area AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	18.00	260.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	PhaseEndDate	6/23/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	5/4/2022	7/4/2022
tblConstructionPhase	PhaseEndDate	5/28/2021	5/3/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/21/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	7/5/2021
tblConstructionPhase	PhaseEndDate	6/4/2021	5/10/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	7/20/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	7/6/2021
tblConstructionPhase	PhaseStartDate	6/5/2021	5/11/2021
tblConstructionPhase	PhaseStartDate	5/5/2022	6/22/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	5/4/2021
tblFireplaces	NumberGas	4.50	0.00
tblFireplaces	NumberNoFireplace	1.44	18.00
tblFireplaces	NumberWood	7.74	0.00
tblGrading	AcresOfGrading	15.00	3.93
tblLandUse	LotAcreage	5.84	3.19
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3025	1.8089	1.5946	2.8300e-003	0.1558	0.0938	0.2496	0.0796	0.0880	0.1676	0.0000	246.4363	246.4363	0.0564	0.0000	247.8450
2022	0.2594	1.1705	1.2437	2.2100e-003	0.0156	0.0589	0.0745	4.2200e-003	0.0558	0.0600	0.0000	191.7993	191.7993	0.0383	0.0000	192.7570
Maximum	**0.3025**	**1.8089**	**1.5946**	**2.8300e-003**	**0.1558**	**0.0938**	**0.2496**	**0.0796**	**0.0880**	**0.1676**	**0.0000**	**246.4363**	**246.4363**	**0.0564**	**0.0000**	**247.8450**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3025	1.8089	1.5946	2.8300e-003	0.1558	0.0938	0.2496	0.0796	0.0880	0.1676	0.0000	246.4361	246.4361	0.0564	0.0000	247.8447
2022	0.2594	1.1705	1.2437	2.2100e-003	0.0156	0.0589	0.0745	4.2200e-003	0.0558	0.0600	0.0000	191.7991	191.7991	0.0383	0.0000	192.7568
Maximum	**0.3025**	**1.8089**	**1.5946**	**2.8300e-003**	**0.1558**	**0.0938**	**0.2496**	**0.0796**	**0.0880**	**0.1676**	**0.0000**	**246.4361**	**246.4361**	**0.0564**	**0.0000**	**247.8447**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-1-2021**	**7-31-2021**	0.8193	0.8193
2	**8-1-2021**	**10-31-2021**	0.7807	0.7807
3	**11-1-2021**	**1-31-2022**	0.7569	0.7569
4	**2-1-2022**	**4-30-2022**	0.6857	0.6857
5	**5-1-2022**	**7-31-2022**	0.5177	0.5177
		Highest	0.8193	0.8193

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1608	2.2300e-003	0.1759	1.4000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.9224	0.2183	1.1408	4.5200e-003	0.0000	1.2538
Energy	2.8200e-003	0.0241	0.0103	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	44.9406	44.9406	2.4500e-003	9.1000e-004	45.2725
Mobile	0.0390	0.1726	0.4427	1.6500e-003	0.1473	1.3500e-003	0.1486	0.0395	1.2600e-003	0.0408	0.0000	151.2890	151.2890	5.2500e-003	0.0000	151.4203
Waste						0.0000	0.0000		0.0000	0.0000	4.3481	0.0000	4.3481	0.2570	0.0000	10.7722
Water						0.0000	0.0000		0.0000	0.0000	0.3721	1.0442	1.4163	0.0383	9.3000e-004	2.6507
Total	**0.2026**	**0.1989**	**0.6289**	**1.9400e-003**	**0.1473**	**0.0109**	**0.1582**	**0.0395**	**0.0108**	**0.0504**	**5.6426**	**197.4921**	**203.1347**	**0.3075**	**1.8400e-003**	**211.3695**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1467	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Energy	2.6400e-003	0.0226	9.6200e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1763	26.1763	5.0000e-004	4.8000e-004	26.3318
Mobile	0.0382	0.1676	0.4234	1.5600e-003	0.1385	1.2800e-003	0.1398	0.0372	1.1900e-003	0.0384	0.0000	142.9645	142.9645	5.0300e-003	0.0000	143.0902
Waste						0.0000	0.0000		0.0000	0.0000	4.3481	0.0000	4.3481	0.2570	0.0000	10.7722
Water						0.0000	0.0000		0.0000	0.0000	0.2977	0.8959	1.1935	0.0307	7.4000e-004	2.1817
Total	**0.1875**	**0.1917**	**0.5667**	**1.7100e-003**	**0.1385**	**3.8500e-003**	**0.1424**	**0.0372**	**3.7600e-003**	**0.0409**	**4.6457**	**170.2550**	**174.9007**	**0.2934**	**1.2200e-003**	**182.5994**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.46**	**3.62**	**9.88**	**11.86**	**5.95**	**64.78**	**10.01**	**5.94**	**65.31**	**18.72**	**17.67**	**13.79**	**13.90**	**4.60**	**33.70**	**13.61**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	5/3/2021	5	1	
2	Site Preparation	Site Preparation	5/4/2021	5/10/2021	5	5	
3	Grading	Grading	5/11/2021	6/21/2021	5	30	
4	Building Construction	Building Construction	7/6/2021	7/4/2022	5	260	
5	Paving	Paving	6/22/2021	7/5/2021	5	10	
6	Architectural Coating	Architectural Coating	7/20/2021	7/18/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.93

Acres of Paving: 0.74

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,934 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5800e-003	0.0157	0.0108	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.7000	1.7000	4.8000e-004	0.0000	1.7120
Total	**1.5800e-003**	**0.0157**	**0.0108**	**2.0000e-005**	**1.7000e-004**	**7.8000e-004**	**9.5000e-004**	**3.0000e-005**	**7.2000e-004**	**7.5000e-004**	**0.0000**	**1.7000**	**1.7000**	**4.8000e-004**	**0.0000**	**1.7120**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.7000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0757	0.0757	0.0000	0.0000	0.0758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0501
Total	**3.0000e-005**	**2.9000e-004**	**2.3000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1258**	**0.1258**	**0.0000**	**0.0000**	**0.1259**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5800e-003	0.0157	0.0108	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.7000	1.7000	4.8000e-004	0.0000	1.7120
Total	**1.5800e-003**	**0.0157**	**0.0108**	**2.0000e-005**	**1.7000e-004**	**7.8000e-004**	**9.5000e-004**	**3.0000e-005**	**7.2000e-004**	**7.5000e-004**	**0.0000**	**1.7000**	**1.7000**	**4.8000e-004**	**0.0000**	**1.7120**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.7000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0757	0.0757	0.0000	0.0000	0.0758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0501
Total	**3.0000e-005**	**2.9000e-004**	**2.3000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1258**	**0.1258**	**0.0000**	**0.0000**	**0.1259**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3006	0.3006	1.0000e-005	0.0000	0.3008
Total	**1.4000e-004**	**1.0000e-004**	**1.0100e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3006**	**0.3006**	**1.0000e-005**	**0.0000**	**0.3008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3006	0.3006	1.0000e-005	0.0000	0.3008
Total	**1.4000e-004**	**1.0000e-004**	**1.0100e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3006**	**0.3006**	**1.0000e-005**	**0.0000**	**0.3008**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0924	0.0000	0.0924	0.0499	0.0000	0.0499	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.3711	0.2379	4.4000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	39.0806	39.0806	0.0126	0.0000	39.3965
Total	**0.0344**	**0.3711**	**0.2379**	**4.4000e-004**	**0.0924**	**0.0174**	**0.1098**	**0.0499**	**0.0160**	**0.0659**	**0.0000**	**39.0806**	**39.0806**	**0.0126**	**0.0000**	**39.3965**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
Total	**6.9000e-004**	**4.8000e-004**	**5.0500e-003**	**2.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.5030**	**1.5030**	**3.0000e-005**	**0.0000**	**1.5038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0924	0.0000	0.0924	0.0499	0.0000	0.0499	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.3711	0.2379	4.4000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	39.0805	39.0805	0.0126	0.0000	39.3965
Total	**0.0344**	**0.3711**	**0.2379**	**4.4000e-004**	**0.0924**	**0.0174**	**0.1098**	**0.0499**	**0.0160**	**0.0659**	**0.0000**	**39.0805**	**39.0805**	**0.0126**	**0.0000**	**39.3965**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
Total	**6.9000e-004**	**4.8000e-004**	**5.0500e-003**	**2.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.5030**	**1.5030**	**3.0000e-005**	**0.0000**	**1.5038**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1226	1.1244	1.0691	1.7400e-003		0.0618	0.0618		0.0581	0.0581	0.0000	149.4060	149.4060	0.0361	0.0000	150.3072
Total	**0.1226**	**1.1244**	**1.0691**	**1.7400e-003**		**0.0618**	**0.0618**		**0.0581**	**0.0581**	**0.0000**	**149.4060**	**149.4060**	**0.0361**	**0.0000**	**150.3072**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0472	0.0118	1.2000e-004	2.9600e-003	1.0000e-004	3.0600e-003	8.6000e-004	1.0000e-004	9.5000e-004	0.0000	11.7094	11.7094	5.8000e-004	0.0000	11.7238
Worker	3.9600e-003	2.7300e-003	0.0289	1.0000e-004	0.0102	7.0000e-005	0.0103	2.7100e-003	6.0000e-005	2.7700e-003	0.0000	8.6171	8.6171	1.9000e-004	0.0000	8.6219
Total	**5.3900e-003**	**0.0499**	**0.0407**	**2.2000e-004**	**0.0132**	**1.7000e-004**	**0.0133**	**3.5700e-003**	**1.6000e-004**	**3.7200e-003**	**0.0000**	**20.3265**	**20.3265**	**7.7000e-004**	**0.0000**	**20.3457**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1226	1.1244	1.0691	1.7400e-003		0.0618	0.0618		0.0581	0.0581	0.0000	149.4059	149.4059	0.0361	0.0000	150.3070
Total	**0.1226**	**1.1244**	**1.0691**	**1.7400e-003**		**0.0618**	**0.0618**		**0.0581**	**0.0581**	**0.0000**	**149.4059**	**149.4059**	**0.0361**	**0.0000**	**150.3070**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0472	0.0118	1.2000e-004	2.9600e-003	1.0000e-004	3.0600e-003	8.6000e-004	1.0000e-004	9.5000e-004	0.0000	11.7094	11.7094	5.8000e-004	0.0000	11.7238
Worker	3.9600e-003	2.7300e-003	0.0289	1.0000e-004	0.0102	7.0000e-005	0.0103	2.7100e-003	6.0000e-005	2.7700e-003	0.0000	8.6171	8.6171	1.9000e-004	0.0000	8.6219
Total	**5.3900e-003**	**0.0499**	**0.0407**	**2.2000e-004**	**0.0132**	**1.7000e-004**	**0.0133**	**3.5700e-003**	**1.6000e-004**	**3.7200e-003**	**0.0000**	**20.3265**	**20.3265**	**7.7000e-004**	**0.0000**	**20.3457**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1118	1.0228	1.0718	1.7600e-003		0.0530	0.0530		0.0499	0.0499	0.0000	151.7800	151.7800	0.0364	0.0000	152.6891
Total	**0.1118**	**1.0228**	**1.0718**	**1.7600e-003**		**0.0530**	**0.0530**		**0.0499**	**0.0499**	**0.0000**	**151.7800**	**151.7800**	**0.0364**	**0.0000**	**152.6891**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0454	0.0112	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.7743	11.7743	5.6000e-004	0.0000	11.7883
Worker	3.7500e-003	2.4900e-003	0.0270	9.0000e-005	0.0104	7.0000e-005	0.0104	2.7500e-003	6.0000e-005	2.8100e-003	0.0000	8.4299	8.4299	1.8000e-004	0.0000	8.4343
Total	**5.1100e-003**	**0.0478**	**0.0382**	**2.1000e-004**	**0.0134**	**1.6000e-004**	**0.0135**	**3.6200e-003**	**1.5000e-004**	**3.7700e-003**	**0.0000**	**20.2042**	**20.2042**	**7.4000e-004**	**0.0000**	**20.2226**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1118	1.0228	1.0718	1.7600e-003		0.0530	0.0530		0.0499	0.0499	0.0000	151.7799	151.7799	0.0364	0.0000	152.6889
Total	**0.1118**	**1.0228**	**1.0718**	**1.7600e-003**		**0.0530**	**0.0530**		**0.0499**	**0.0499**	**0.0000**	**151.7799**	**151.7799**	**0.0364**	**0.0000**	**152.6889**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0454	0.0112	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.7743	11.7743	5.6000e-004	0.0000	11.7883
Worker	3.7500e-003	2.4900e-003	0.0270	9.0000e-005	0.0104	7.0000e-005	0.0104	2.7500e-003	6.0000e-005	2.8100e-003	0.0000	8.4299	8.4299	1.8000e-004	0.0000	8.4343
Total	**5.1100e-003**	**0.0478**	**0.0382**	**2.1000e-004**	**0.0134**	**1.6000e-004**	**0.0135**	**3.6200e-003**	**1.5000e-004**	**3.7700e-003**	**0.0000**	**20.2042**	**20.2042**	**7.4000e-004**	**0.0000**	**20.2226**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4700e-003	0.0542	0.0613	9.0000e-005		2.8900e-003	2.8900e-003		2.6700e-003	2.6700e-003	0.0000	8.1853	8.1853	2.5700e-003	0.0000	8.2496
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4400e-003**	**0.0542**	**0.0613**	**9.0000e-005**		**2.8900e-003**	**2.8900e-003**		**2.6700e-003**	**2.6700e-003**	**0.0000**	**8.1853**	**8.1853**	**2.5700e-003**	**0.0000**	**8.2496**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.2400e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6680	0.6680	1.0000e-005	0.0000	0.6684
Total	**3.1000e-004**	**2.1000e-004**	**2.2400e-003**	**1.0000e-005**	**7.9000e-004**	**1.0000e-005**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6680**	**0.6680**	**1.0000e-005**	**0.0000**	**0.6684**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4700e-003	0.0542	0.0613	9.0000e-005		2.8900e-003	2.8900e-003		2.6700e-003	2.6700e-003	0.0000	8.1853	8.1853	2.5700e-003	0.0000	8.2496
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4400e-003**	**0.0542**	**0.0613**	**9.0000e-005**		**2.8900e-003**	**2.8900e-003**		**2.6700e-003**	**2.6700e-003**	**0.0000**	**8.1853**	**8.1853**	**2.5700e-003**	**0.0000**	**8.2496**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.2400e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6680	0.6680	1.0000e-005	0.0000	0.6684
Total	**3.1000e-004**	**2.1000e-004**	**2.2400e-003**	**1.0000e-005**	**7.9000e-004**	**1.0000e-005**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6680**	**0.6680**	**1.0000e-005**	**0.0000**	**0.6684**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1075					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0130	0.0909	0.1081	1.8000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	15.1919	15.1919	1.0400e-003	0.0000	15.2179
Total	**0.1205**	**0.0909**	**0.1081**	**1.8000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**15.1919**	**15.1919**	**1.0400e-003**	**0.0000**	**15.2179**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.0000e-004	5.3400e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5898	1.5898	4.0000e-005	0.0000	1.5907
Total	**7.3000e-004**	**5.0000e-004**	**5.3400e-003**	**2.0000e-005**	**1.8800e-003**	**1.0000e-005**	**1.8900e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.5898**	**1.5898**	**4.0000e-005**	**0.0000**	**1.5907**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1075					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0130	0.0909	0.1081	1.8000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	15.1918	15.1918	1.0400e-003	0.0000	15.2179
Total	**0.1205**	**0.0909**	**0.1081**	**1.8000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**15.1918**	**15.1918**	**1.0400e-003**	**0.0000**	**15.2179**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.0000e-004	5.3400e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5898	1.5898	4.0000e-005	0.0000	1.5907
Total	**7.3000e-004**	**5.0000e-004**	**5.3400e-003**	**2.0000e-005**	**1.8800e-003**	**1.0000e-005**	**1.8900e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.5898**	**1.5898**	**4.0000e-005**	**0.0000**	**1.5907**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.0993	0.1279	2.1000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	18.0004	18.0004	1.1700e-003	0.0000	18.0297
Total	**0.1418**	**0.0993**	**0.1279**	**2.1000e-004**		**5.7600e-003**	**5.7600e-003**		**5.7600e-003**	**5.7600e-003**	**0.0000**	**18.0004**	**18.0004**	**1.1700e-003**	**0.0000**	**18.0297**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	5.4000e-004	5.8100e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.1000e-004	0.0000	1.8147	1.8147	4.0000e-005	0.0000	1.8156
Total	**8.1000e-004**	**5.4000e-004**	**5.8100e-003**	**2.0000e-005**	**2.2300e-003**	**1.0000e-005**	**2.2400e-003**	**5.9000e-004**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**1.8147**	**1.8147**	**4.0000e-005**	**0.0000**	**1.8156**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.0993	0.1279	2.1000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	18.0004	18.0004	1.1700e-003	0.0000	18.0297
Total	**0.1418**	**0.0993**	**0.1279**	**2.1000e-004**		**5.7600e-003**	**5.7600e-003**		**5.7600e-003**	**5.7600e-003**	**0.0000**	**18.0004**	**18.0004**	**1.1700e-003**	**0.0000**	**18.0297**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	5.4000e-004	5.8100e-003	2.0000e-005	2.2300e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.1000e-004	0.0000	1.8147	1.8147	4.0000e-005	0.0000	1.8156
Total	**8.1000e-004**	**5.4000e-004**	**5.8100e-003**	**2.0000e-005**	**2.2300e-003**	**1.0000e-005**	**2.2400e-003**	**5.9000e-004**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**1.8147**	**1.8147**	**4.0000e-005**	**0.0000**	**1.8156**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0382	0.1676	0.4234	1.5600e-003	0.1385	1.2800e-003	0.1398	0.0372	1.1900e-003	0.0384	0.0000	142.9645	142.9645	5.0300e-003	0.0000	143.0902
Unmitigated	0.0390	0.1726	0.4427	1.6500e-003	0.1473	1.3500e-003	0.1486	0.0395	1.2600e-003	0.0408	0.0000	151.2890	151.2890	5.2500e-003	0.0000	151.4203

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	171.36	171.36	171.36	395,774	372,226
Total	171.36	171.36	171.36	395,774	372,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Single Family Housing	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	17.0222	17.0222	1.9200e-003	4.0000e-004	17.1882
NaturalGas Mitigated	2.6400e-003	0.0226	9.6200e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1763	26.1763	5.0000e-004	4.8000e-004	26.3318
NaturalGas Unmitigated	2.8200e-003	0.0241	0.0103	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9184	27.9184	5.4000e-004	5.1000e-004	28.0843

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	523172	2.8200e-003	0.0241	0.0103	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9184	27.9184	5.4000e-004	5.1000e-004	28.0843
Total		**2.8200e-003**	**0.0241**	**0.0103**	**1.5000e-004**		**1.9500e-003**	**1.9500e-003**		**1.9500e-003**	**1.9500e-003**	**0.0000**	**27.9184**	**27.9184**	**5.4000e-004**	**5.1000e-004**	**28.0843**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	490525	2.6400e-003	0.0226	9.6200e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1763	26.1763	5.0000e-004	4.8000e-004	26.3318
Total		**2.6400e-003**	**0.0226**	**9.6200e-003**	**1.4000e-004**		**1.8300e-003**	**1.8300e-003**		**1.8300e-003**	**1.8300e-003**	**0.0000**	**26.1763**	**26.1763**	**5.0000e-004**	**4.8000e-004**	**26.3318**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	145630	17.0222	1.9200e-003	4.0000e-004	17.1882
Total		**17.0222**	**1.9200e-003**	**4.0000e-004**	**17.1882**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1467	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Unmitigated	0.1608	2.2300e-003	0.1759	1.4000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.9224	0.2183	1.1408	4.5200e-003	0.0000	1.2538

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1286					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.6500e-003	6.9000e-004	0.0422	1.4000e-004		6.8900e-003	6.8900e-003		6.8900e-003	6.8900e-003	0.9224	0.0000	0.9224	4.3100e-003	0.0000	1.0302
Landscaping	4.0300e-003	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Total	**0.1608**	**2.2300e-003**	**0.1759**	**1.5000e-004**		**7.6300e-003**	**7.6300e-003**		**7.6300e-003**	**7.6300e-003**	**0.9224**	**0.2183**	**1.1408**	**4.5200e-003**	**0.0000**	**1.2538**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0300e-003	1.5400e-003	0.1337	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2183	0.2183	2.1000e-004	0.0000	0.2236
Total	**0.1467**	**1.5400e-003**	**0.1337**	**1.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**0.2183**	**0.2183**	**2.1000e-004**	**0.0000**	**0.2236**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.1935	0.0307	7.4000e-004	2.1817
Unmitigated	1.4163	0.0383	9.3000e-004	2.6507

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.17277 / 0.739357	1.4163	0.0383	9.3000e-004	2.6507
Total		**1.4163**	**0.0383**	**9.3000e-004**	**2.6507**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.938218 / 0.739357	1.1935	0.0307	7.4000e-004	2.1817
Total		**1.1935**	**0.0307**	**7.4000e-004**	**2.1817**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.3481	0.2570	0.0000	10.7722
Unmitigated	4.3481	0.2570	0.0000	10.7722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	21.42	4.3481	0.2570	0.0000	10.7722
Total		**4.3481**	**0.2570**	**0.0000**	**10.7722**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	21.42	4.3481	0.2570	0.0000	10.7722
Total		**4.3481**	**0.2570**	**0.0000**	**10.7722**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Diablo Meadows Project

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	3.19	32,400.00	51
Other Asphalt Surfaces	0.74	Acre	0.74	32,234.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	257.69	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Acreage updated per site plan.

Construction Phase - Phase timing provided by applicant.

Grading - total acres graded adjusted per site plan

Demolition -

Vehicle Trips - trip rate adjusted for ITE trip generation rates 9th edition

Woodstoves - Per AQ questionnaire, no fireplaces proposed

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Diablo Meadows Project - Bay Area AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	18.00	260.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	PhaseEndDate	6/23/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	5/4/2022	7/4/2022
tblConstructionPhase	PhaseEndDate	5/28/2021	5/3/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/21/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	7/5/2021
tblConstructionPhase	PhaseEndDate	6/4/2021	5/10/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	7/20/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	7/6/2021
tblConstructionPhase	PhaseStartDate	6/5/2021	5/11/2021
tblConstructionPhase	PhaseStartDate	5/5/2022	6/22/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	5/4/2021
tblFireplaces	NumberGas	4.50	0.00
tblFireplaces	NumberNoFireplace	1.44	18.00
tblFireplaces	NumberWood	7.74	0.00
tblGrading	AcresOfGrading	15.00	3.93
tblLandUse	LotAcreage	5.84	3.19
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0249	40.5309	22.0450	0.0416	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,034.7208	4,034.7208	1.1952	0.0000	4,061.3680
2022	3.8090	17.7502	18.8806	0.0336	0.2446	0.8933	1.1378	0.0659	0.8453	0.9112	0.0000	3,219.1777	3,219.1777	0.6432	0.0000	3,235.2567
Maximum	**4.0249**	**40.5309**	**22.0450**	**0.0416**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,034.7208**	**4,034.7208**	**1.1952**	**0.0000**	**4,061.3680**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0249	40.5309	22.0450	0.0416	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,034.7208	4,034.7208	1.1952	0.0000	4,061.3680
2022	3.8090	17.7502	18.8806	0.0336	0.2446	0.8933	1.1378	0.0659	0.8453	0.9112	0.0000	3,219.1777	3,219.1777	0.6432	0.0000	3,235.2567
Maximum	**4.0249**	**40.5309**	**22.0450**	**0.0416**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,034.7208**	**4,034.7208**	**1.1952**	**0.0000**	**4,061.3680**

Diablo Meadows Project - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869
Energy	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Mobile	0.2464	0.9194	2.5332	9.5700e-003	0.8408	7.4000e-003	0.8482	0.2249	6.9100e-003	0.2318		969.1667	969.1667	0.0320		969.9671
Total	**1.5816**	**1.1340**	**8.0852**	**0.0236**	**0.8408**	**0.6805**	**1.5213**	**0.2249**	**0.6800**	**0.9050**	**96.5632**	**1,140.4698**	**1,237.0330**	**0.4892**	**3.0900e-003**	**1,250.1852**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Energy	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Mobile	0.2418	0.8937	2.4136	9.0500e-003	0.7907	7.0200e-003	0.7978	0.2115	6.5500e-003	0.2181		915.7669	915.7669	0.0306		916.5315
Total	**1.0826**	**1.0346**	**3.9517**	**9.9200e-003**	**0.7907**	**0.0253**	**0.8160**	**0.2115**	**0.0248**	**0.2363**	**0.0000**	**1,076.5473**	**1,076.5473**	**0.0362**	**2.9000e-003**	**1,078.3158**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**31.55**	**8.77**	**51.12**	**57.91**	**5.95**	**96.29**	**46.36**	**5.95**	**96.36**	**73.89**	**100.00**	**5.60**	**12.97**	**92.60**	**6.15**	**13.75**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	5/3/2021	5	1	
2	Site Preparation	Site Preparation	5/4/2021	5/10/2021	5	5	
3	Grading	Grading	5/11/2021	6/21/2021	5	30	
4	Building Construction	Building Construction	7/6/2021	7/4/2022	5	260	
5	Paving	Paving	6/22/2021	7/5/2021	5	10	
6	Architectural Coating	Architectural Coating	7/20/2021	7/18/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.93

Acres of Paving: 0.74

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,934 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0156	0.5292	0.1116	1.5700e-003	0.0349	1.6600e-003	0.0366	9.5800e-003	1.5900e-003	0.0112		167.9819	167.9819	8.3400e-003		168.1903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0638**	**0.5574**	**0.4800**	**2.7600e-003**	**0.1582**	**2.4400e-003**	**0.1606**	**0.0423**	**2.3000e-003**	**0.0446**		**286.7759**	**286.7759**	**0.0110**		**287.0507**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0156	0.5292	0.1116	1.5700e-003	0.0349	1.6600e-003	0.0366	9.5800e-003	1.5900e-003	0.0112		167.9819	167.9819	8.3400e-003		168.1903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0638**	**0.5574**	**0.4800**	**2.7600e-003**	**0.1582**	**2.4400e-003**	**0.1606**	**0.0423**	**2.3000e-003**	**0.0446**		**286.7759**	**286.7759**	**0.0110**		**287.0507**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	**0.0579**	**0.0338**	**0.4421**	**1.4300e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**142.5527**	**142.5527**	**3.1900e-003**		**142.6324**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	**0.0579**	**0.0338**	**0.4421**	**1.4300e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**142.5527**	**142.5527**	**3.1900e-003**		**142.6324**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0482**	**0.0282**	**0.3685**	**1.1900e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**118.7939**	**118.7939**	**2.6600e-003**		**118.8603**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	**0.0482**	**0.0282**	**0.3685**	**1.1900e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**118.7939**	**118.7939**	**2.6600e-003**		**118.8603**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7234	0.1706	1.9100e-003	0.0474	1.5700e-003	0.0490	0.0136	1.5000e-003	0.0151		202.2710	202.2710	9.4900e-003		202.5083
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0860**	**0.7610**	**0.6618**	**3.5000e-003**	**0.2117**	**2.6000e-003**	**0.2143**	**0.0572**	**2.4500e-003**	**0.0597**		**360.6629**	**360.6629**	**0.0130**		**360.9887**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7234	0.1706	1.9100e-003	0.0474	1.5700e-003	0.0490	0.0136	1.5000e-003	0.0151		202.2710	202.2710	9.4900e-003		202.5083
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0860**	**0.7610**	**0.6618**	**3.5000e-003**	**0.2117**	**2.6000e-003**	**0.2143**	**0.0572**	**2.4500e-003**	**0.0597**		**360.6629**	**360.6629**	**0.0130**		**360.9887**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0203	0.6856	0.1604	1.8900e-003	0.0474	1.3600e-003	0.0487	0.0136	1.3000e-003	0.0149		200.3012	200.3012	9.0800e-003		200.5281
Worker	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586
Total	**0.0801**	**0.7193**	**0.6131**	**3.4200e-003**	**0.2117**	**2.3700e-003**	**0.2140**	**0.0572**	**2.2300e-003**	**0.0595**		**352.8802**	**352.8802**	**0.0123**		**353.1866**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0203	0.6856	0.1604	1.8900e-003	0.0474	1.3600e-003	0.0487	0.0136	1.3000e-003	0.0149		200.3012	200.3012	9.0800e-003		200.5281
Worker	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586
Total	**0.0801**	**0.7193**	**0.6131**	**3.4200e-003**	**0.2117**	**2.3700e-003**	**0.2140**	**0.0572**	**2.2300e-003**	**0.0595**		**352.8802**	**352.8802**	**0.0123**		**353.1866**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0643**	**0.0376**	**0.4913**	**1.5900e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**158.3919**	**158.3919**	**3.5400e-003**		**158.4804**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0376	0.4913	1.5900e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		158.3919	158.3919	3.5400e-003		158.4804
Total	**0.0643**	**0.0376**	**0.4913**	**1.5900e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**158.3919**	**158.3919**	**3.5400e-003**		**158.4804**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0129	7.5200e-003	0.0983	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		31.6784	31.6784	7.1000e-004		31.6961
Total	**0.0129**	**7.5200e-003**	**0.0983**	**3.2000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**31.6784**	**31.6784**	**7.1000e-004**		**31.6961**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0129	7.5200e-003	0.0983	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		31.6784	31.6784	7.1000e-004		31.6961
Total	**0.0129**	**7.5200e-003**	**0.0983**	**3.2000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**31.6784**	**31.6784**	**7.1000e-004**		**31.6961**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0120	6.7400e-003	0.0905	3.1000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		30.5158	30.5158	6.4000e-004		30.5317
Total	**0.0120**	**6.7400e-003**	**0.0905**	**3.1000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**30.5158**	**30.5158**	**6.4000e-004**		**30.5317**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0120	6.7400e-003	0.0905	3.1000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		30.5158	30.5158	6.4000e-004		30.5317
Total	**0.0120**	**6.7400e-003**	**0.0905**	**3.1000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**30.5158**	**30.5158**	**6.4000e-004**		**30.5317**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2418	0.8937	2.4136	9.0500e-003	0.7907	7.0200e-003	0.7978	0.2115	6.5500e-003	0.2181		915.7669	915.7669	0.0306		916.5315
Unmitigated	0.2464	0.9194	2.5332	9.5700e-003	0.8408	7.4000e-003	0.8482	0.2249	6.9100e-003	0.2318		969.1667	969.1667	0.0320		969.9671

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	171.36	171.36	171.36	395,774	372,226
Total	171.36	171.36	171.36	395,774	372,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Single Family Housing	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
NaturalGas Unmitigated	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1433.35	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Total		**0.0155**	**0.1321**	**0.0562**	**8.4000e-004**		**0.0107**	**0.0107**		**0.0107**	**0.0107**		**168.6291**	**168.6291**	**3.2300e-003**	**3.0900e-003**	**169.6311**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.3439	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Total		**0.0145**	**0.1239**	**0.0527**	**7.9000e-004**		**0.0100**	**0.0100**		**0.0100**	**0.0100**		**158.1063**	**158.1063**	**3.0300e-003**	**2.9000e-003**	**159.0459**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Unmitigated	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4416	0.0654	4.0104	0.0131		0.6542	0.6542		0.6542	0.6542	96.5632	0.0000	96.5632	0.4514	0.0000	107.8485
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**1.3198**	**0.0825**	**5.4958**	**0.0132**		**0.6624**	**0.6624**		**0.6624**	**0.6624**	**96.5632**	**2.6741**	**99.2373**	**0.4540**	**0.0000**	**110.5869**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**0.8264**	**0.0171**	**1.4854**	**8.0000e-005**		**8.2200e-003**	**8.2200e-003**		**8.2200e-003**	**8.2200e-003**	**0.0000**	**2.6741**	**2.6741**	**2.5700e-003**	**0.0000**	**2.7384**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Diablo Meadows Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	3.19	32,400.00	51
Other Asphalt Surfaces	0.74	Acre	0.74	32,234.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	257.69	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Acreage updated per site plan.

Construction Phase - Phase timing provided by applicant.

Grading - total acres graded adjusted per site plan

Demolition -

Vehicle Trips - trip rate adjusted for ITE trip generation rates 9th edition

Woodstoves - Per AQ questionnaire, no fireplaces proposed

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Diablo Meadows Project - Bay Area AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	18.00	260.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	PhaseEndDate	6/23/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	5/4/2022	7/4/2022
tblConstructionPhase	PhaseEndDate	5/28/2021	5/3/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/21/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	7/5/2021
tblConstructionPhase	PhaseEndDate	6/4/2021	5/10/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	7/20/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	7/6/2021
tblConstructionPhase	PhaseStartDate	6/5/2021	5/11/2021
tblConstructionPhase	PhaseStartDate	5/5/2022	6/22/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	5/4/2021
tblFireplaces	NumberGas	4.50	0.00
tblFireplaces	NumberNoFireplace	1.44	18.00
tblFireplaces	NumberWood	7.74	0.00
tblGrading	AcresOfGrading	15.00	3.93
tblLandUse	LotAcreage	5.84	3.19
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0307	40.5389	22.0295	0.0415	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,022.5176	4,022.5176	1.1950	0.0000	4,049.1704
2022	3.8147	17.7648	18.8674	0.0334	0.2446	0.8934	1.1379	0.0659	0.8453	0.9113	0.0000	3,199.6389	3,199.6389	0.6436	0.0000	3,215.7296
Maximum	**4.0307**	**40.5389**	**22.0295**	**0.0415**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,022.5176**	**4,022.5176**	**1.1950**	**0.0000**	**4,049.1704**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.0307	40.5389	22.0295	0.0415	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,022.5176	4,022.5176	1.1950	0.0000	4,049.1704
2022	3.8147	17.7648	18.8674	0.0334	0.2446	0.8934	1.1379	0.0659	0.8453	0.9113	0.0000	3,199.6389	3,199.6389	0.6436	0.0000	3,215.7296
Maximum	**4.0307**	**40.5389**	**22.0295**	**0.0415**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**4,022.5176**	**4,022.5176**	**1.1950**	**0.0000**	**4,049.1704**

Diablo Meadows Project - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869
Energy	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Mobile	0.2120	0.9666	2.5450	8.9600e-003	0.8408	7.4400e-003	0.8482	0.2249	6.9500e-003	0.2319		907.6690	907.6690	0.0326		908.4842
Total	**1.5473**	**1.1812**	**8.0970**	**0.0230**	**0.8408**	**0.6806**	**1.5213**	**0.2249**	**0.6801**	**0.9050**	**96.5632**	**1,078.9722**	**1,175.5354**	**0.4898**	**3.0900e-003**	**1,188.7023**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Energy	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Mobile	0.2075	0.9379	2.4386	8.4700e-003	0.7907	7.0500e-003	0.7978	0.2115	6.5900e-003	0.2181		857.5505	857.5505	0.0312		858.3313
Total	**1.0483**	**1.0789**	**3.9767**	**9.3400e-003**	**0.7907**	**0.0253**	**0.8160**	**0.2115**	**0.0248**	**0.2364**	**0.0000**	**1,018.3309**	**1,018.3309**	**0.0368**	**2.9000e-003**	**1,020.1156**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.25**	**8.66**	**50.89**	**59.32**	**5.95**	**96.29**	**46.36**	**5.95**	**96.35**	**73.88**	**100.00**	**5.62**	**13.37**	**92.48**	**6.15**	**14.18**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	5/3/2021	5	1	
2	Site Preparation	Site Preparation	5/4/2021	5/10/2021	5	5	
3	Grading	Grading	5/11/2021	6/21/2021	5	30	
4	Building Construction	Building Construction	7/6/2021	7/4/2022	5	260	
5	Paving	Paving	6/22/2021	7/5/2021	5	10	
6	Architectural Coating	Architectural Coating	7/20/2021	7/18/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.93

Acres of Paving: 0.74

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,934 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0160	0.5416	0.1198	1.5400e-003	0.0349	1.6900e-003	0.0366	9.5800e-003	1.6200e-003	0.0112		165.1421	165.1421	8.7400e-003		165.3606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0671**	**0.5764**	**0.4645**	**2.6400e-003**	**0.1582**	**2.4700e-003**	**0.1606**	**0.0423**	**2.3300e-003**	**0.0446**		**274.5726**	**274.5726**	**0.0112**		**274.8530**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3445	0.0000	0.3445	0.0522	0.0000	0.0522			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.3445**	**1.5513**	**1.8959**	**0.0522**	**1.4411**	**1.4933**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0160	0.5416	0.1198	1.5400e-003	0.0349	1.6900e-003	0.0366	9.5800e-003	1.6200e-003	0.0112		165.1421	165.1421	8.7400e-003		165.3606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0671**	**0.5764**	**0.4645**	**2.6400e-003**	**0.1582**	**2.4700e-003**	**0.1606**	**0.0423**	**2.3300e-003**	**0.0446**		**274.5726**	**274.5726**	**0.0112**		**274.8530**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	**0.0613**	**0.0418**	**0.4137**	**1.3200e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**131.3166**	**131.3166**	**2.9700e-003**		**131.3909**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	**0.0613**	**0.0418**	**0.4137**	**1.3200e-003**	**0.1479**	**9.3000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**131.3166**	**131.3166**	**2.9700e-003**		**131.3909**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0511**	**0.0348**	**0.3447**	**1.1000e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**109.4305**	**109.4305**	**2.4800e-003**		**109.4924**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1610	0.0000	6.1610	3.3252	0.0000	3.3252			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.1610**	**1.1599**	**7.3209**	**3.3252**	**1.0671**	**4.3924**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	**0.0511**	**0.0348**	**0.3447**	**1.1000e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.1000e-004**	**0.0334**		**109.4305**	**109.4305**	**2.4800e-003**		**109.4924**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0230	0.7296	0.1961	1.8600e-003	0.0474	1.6200e-003	0.0490	0.0136	1.5500e-003	0.0152		197.1390	197.1390	0.0103		197.3958
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0911**	**0.7760**	**0.6557**	**3.3200e-003**	**0.2117**	**2.6500e-003**	**0.2143**	**0.0572**	**2.5000e-003**	**0.0597**		**343.0463**	**343.0463**	**0.0136**		**343.3856**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0230	0.7296	0.1961	1.8600e-003	0.0474	1.6200e-003	0.0490	0.0136	1.5500e-003	0.0152		197.1390	197.1390	0.0103		197.3958
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0911**	**0.7760**	**0.6557**	**3.3200e-003**	**0.2117**	**2.6500e-003**	**0.2143**	**0.0572**	**2.5000e-003**	**0.0597**		**343.0463**	**343.0463**	**0.0136**		**343.3856**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0214	0.6908	0.1843	1.8400e-003	0.0474	1.4100e-003	0.0488	0.0136	1.3500e-003	0.0150		195.1872	195.1872	9.8100e-003		195.4325
Worker	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323
Total	**0.0850**	**0.7324**	**0.6061**	**3.2500e-003**	**0.2117**	**2.4200e-003**	**0.2141**	**0.0572**	**2.2800e-003**	**0.0595**		**335.7456**	**335.7456**	**0.0128**		**336.0648**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0214	0.6908	0.1843	1.8400e-003	0.0474	1.4100e-003	0.0488	0.0136	1.3500e-003	0.0150		195.1872	195.1872	9.8100e-003		195.4325
Worker	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323
Total	**0.0850**	**0.7324**	**0.6061**	**3.2500e-003**	**0.2117**	**2.4200e-003**	**0.2141**	**0.0572**	**2.2800e-003**	**0.0595**		**335.7456**	**335.7456**	**0.0128**		**336.0648**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0681**	**0.0464**	**0.4596**	**1.4600e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**145.9073**	**145.9073**	**3.3000e-003**		**145.9899**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2878**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0681	0.0464	0.4596	1.4600e-003	0.1643	1.0300e-003	0.1653	0.0436	9.5000e-004	0.0445		145.9073	145.9073	3.3000e-003		145.9899
Total	**0.0681**	**0.0464**	**0.4596**	**1.4600e-003**	**0.1643**	**1.0300e-003**	**0.1653**	**0.0436**	**9.5000e-004**	**0.0445**		**145.9073**	**145.9073**	**3.3000e-003**		**145.9899**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.2800e-003	0.0919	2.9000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		29.1815	29.1815	6.6000e-004		29.1980
Total	**0.0136**	**9.2800e-003**	**0.0919**	**2.9000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**29.1815**	**29.1815**	**6.6000e-004**		**29.1980**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**2.0251**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.2800e-003	0.0919	2.9000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		29.1815	29.1815	6.6000e-004		29.1980
Total	**0.0136**	**9.2800e-003**	**0.0919**	**2.9000e-004**	**0.0329**	**2.1000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9100e-003**		**29.1815**	**29.1815**	**6.6000e-004**		**29.1980**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0127	8.3200e-003	0.0844	2.8000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		28.1117	28.1117	5.9000e-004		28.1265
Total	**0.0127**	**8.3200e-003**	**0.0844**	**2.8000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**28.1117**	**28.1117**	**5.9000e-004**		**28.1265**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**2.0107**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0127	8.3200e-003	0.0844	2.8000e-004	0.0329	2.0000e-004	0.0331	8.7200e-003	1.9000e-004	8.9000e-003		28.1117	28.1117	5.9000e-004		28.1265
Total	**0.0127**	**8.3200e-003**	**0.0844**	**2.8000e-004**	**0.0329**	**2.0000e-004**	**0.0331**	**8.7200e-003**	**1.9000e-004**	**8.9000e-003**		**28.1117**	**28.1117**	**5.9000e-004**		**28.1265**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2075	0.9379	2.4386	8.4700e-003	0.7907	7.0500e-003	0.7978	0.2115	6.5900e-003	0.2181		857.5505	857.5505	0.0312		858.3313
Unmitigated	0.2120	0.9666	2.5450	8.9600e-003	0.8408	7.4400e-003	0.8482	0.2249	6.9500e-003	0.2319		907.6690	907.6690	0.0326		908.4842

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	171.36	171.36	171.36	395,774	372,226
Total	171.36	171.36	171.36	395,774	372,226

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Single Family Housing	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
NaturalGas Unmitigated	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1433.35	0.0155	0.1321	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.6291	168.6291	3.2300e-003	3.0900e-003	169.6311
Total		**0.0155**	**0.1321**	**0.0562**	**8.4000e-004**		**0.0107**	**0.0107**		**0.0107**	**0.0107**		**168.6291**	**168.6291**	**3.2300e-003**	**3.0900e-003**	**169.6311**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.3439	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100		158.1063	158.1063	3.0300e-003	2.9000e-003	159.0459
Total		**0.0145**	**0.1239**	**0.0527**	**7.9000e-004**		**0.0100**	**0.0100**		**0.0100**	**0.0100**		**158.1063**	**158.1063**	**3.0300e-003**	**2.9000e-003**	**159.0459**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8264	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.6741	2.6741	2.5700e-003	0.0000	2.7384
Unmitigated	1.3198	0.0825	5.4958	0.0132		0.6624	0.6624		0.6624	0.6624	96.5632	2.6741	99.2373	0.4540	0.0000	110.5869

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4416	0.0654	4.0104	0.0131		0.6542	0.6542		0.6542	0.6542	96.5632	0.0000	96.5632	0.4514	0.0000	107.8485
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**1.3198**	**0.0825**	**5.4958**	**0.0132**		**0.6624**	**0.6624**		**0.6624**	**0.6624**	**96.5632**	**2.6741**	**99.2373**	**0.4540**	**0.0000**	**110.5869**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1287					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003		2.6741	2.6741	2.5700e-003		2.7384
Total	**0.8264**	**0.0171**	**1.4854**	**8.0000e-005**		**8.2200e-003**	**8.2200e-003**		**8.2200e-003**	**8.2200e-003**	**0.0000**	**2.6741**	**2.6741**	**2.5700e-003**	**0.0000**	**2.7384**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Diablo Meadows Project

Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	11	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	2.74400E-002	1.90150E-001	2.36000E-001	3.90000E-004	1.13600E-002	1.13600E-002	0.00000E+000	3.31923E+001	3.31923E+001	2.21000E-003	0.00000E+000	3.32477E+001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	1.90000E-004	1.52000E-003	1.84000E-003	0.00000E+000	9.00000E-005	9.00000E-005	0.00000E+000	2.68830E-001	2.68830E-001	2.00000E-005	0.00000E+000	2.69220E-001
Cranes	4.46800E-002	5.13500E-001	2.20360E-001	6.60000E-004	2.10700E-002	1.93800E-002	0.00000E+000	5.76623E+001	5.76623E+001	1.86500E-002	0.00000E+000	5.81285E+001
Excavators	3.78000E-003	3.55300E-002	5.39800E-002	9.00000E-005	1.72000E-003	1.59000E-003	0.00000E+000	7.48715E+000	7.48715E+000	2.42000E-003	0.00000E+000	7.54769E+000
Forklifts	4.73500E-002	4.35450E-001	4.52690E-001	6.00000E-004	2.99300E-002	2.75300E-002	0.00000E+000	5.23736E+001	5.23736E+001	1.69400E-002	0.00000E+000	5.27971E+001
Generator Sets	4.46700E-002	3.96020E-001	4.78440E-001	8.60000E-004	2.04400E-002	2.04400E-002	0.00000E+000	7.34770E+001	7.34770E+001	3.62000E-003	0.00000E+000	7.35675E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73189E+000	8.73189E+000	2.82000E-003	0.00000E+000	8.80249E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	1.44000E-003	1.45500E-002	1.90600E-002	3.00000E-005	7.20000E-004	6.60000E-004	0.00000E+000	2.68383E+000	2.68383E+000	8.70000E-004	0.00000E+000	2.70553E+000
Rollers	1.42000E-003	1.44300E-002	1.41000E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	1.72879E+000	1.72879E+000	5.60000E-004	0.00000E+000	1.74277E+000
Rubber Tired Dozers	2.45900E-002	2.57830E-001	9.48900E-002	2.00000E-004	1.25100E-002	1.15100E-002	0.00000E+000	1.76382E+001	1.76382E+001	5.70000E-003	0.00000E+000	1.77808E+001
Tractors/Loaders/Backhoes	7.12600E-002	7.22840E-001	9.03090E-001	1.25000E-003	4.11300E-002	3.78400E-002	0.00000E+000	1.09583E+002	1.09583E+002	3.54400E-002	0.00000E+000	1.10469E+002
Welders	3.76500E-002	1.93140E-001	2.21940E-001	3.30000E-004	8.97000E-003	8.97000E-003	0.00000E+000	2.44687E+001	2.44687E+001	3.06000E-003	0.00000E+000	2.45451E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	2.74400E-002	1.90140E-001	2.36000E-001	3.90000E-004	1.13600E-002	1.13600E-002	0.00000E+000	3.31923E+001	3.31923E+001	2.21000E-003	0.00000E+000	3.32476E+001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	1.90000E-004	1.52000E-003	1.84000E-003	0.00000E+000	9.00000E-005	9.00000E-005	0.00000E+000	2.68830E-001	2.68830E-001	2.00000E-005	0.00000E+000	2.69220E-001
Cranes	4.46800E-002	5.13500E-001	2.20360E-001	6.60000E-004	2.10700E-002	1.93800E-002	0.00000E+000	5.76622E+001	5.76622E+001	1.86500E-002	0.00000E+000	5.81284E+001
Excavators	3.78000E-003	3.55300E-002	5.39800E-002	9.00000E-005	1.72000E-003	1.59000E-003	0.00000E+000	7.48714E+000	7.48714E+000	2.42000E-003	0.00000E+000	7.54768E+000
Forklifts	4.73500E-002	4.35450E-001	4.52690E-001	6.00000E-004	2.99300E-002	2.75300E-002	0.00000E+000	5.23736E+001	5.23736E+001	1.69400E-002	0.00000E+000	5.27970E+001
Generator Sets	4.46700E-002	3.96020E-001	4.78440E-001	8.60000E-004	2.04400E-002	2.04400E-002	0.00000E+000	7.34769E+001	7.34769E+001	3.62000E-003	0.00000E+000	7.35674E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73188E+000	8.73188E+000	2.82000E-003	0.00000E+000	8.80248E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	1.44000E-003	1.45500E-002	1.90600E-002	3.00000E-005	7.20000E-004	6.60000E-004	0.00000E+000	2.68383E+000	2.68383E+000	8.70000E-004	0.00000E+000	2.70553E+000
Rollers	1.42000E-003	1.44300E-002	1.41000E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	1.72879E+000	1.72879E+000	5.60000E-004	0.00000E+000	1.74277E+000
Rubber Tired Dozers	2.45900E-002	2.57820E-001	9.48900E-002	2.00000E-004	1.25100E-002	1.15100E-002	0.00000E+000	1.76382E+001	1.76382E+001	5.70000E-003	0.00000E+000	1.77808E+001
Tractors/Loaders/Backhoes	7.12600E-002	7.22840E-001	9.03090E-001	1.25000E-003	4.11300E-002	3.78400E-002	0.00000E+000	1.09583E+002	1.09583E+002	3.54400E-002	0.00000E+000	1.10469E+002
Welders	3.76500E-002	1.93140E-001	2.21940E-001	3.30000E-004	8.97000E-003	8.97000E-003	0.00000E+000	2.44687E+001	2.44687E+001	3.06000E-003	0.00000E+000	2.45451E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	5.25901E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20510E-006	1.20510E-006	0.00000E+000	0.00000E+000	1.20309E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21397E-006	1.21397E-006	0.00000E+000	0.00000E+000	1.20423E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33562E-006	1.33562E-006	0.00000E+000	0.00000E+000	1.32491E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14562E-006	1.14562E-006	0.00000E+000	0.00000E+000	1.13643E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22487E-006	1.22487E-006	0.00000E+000	0.00000E+000	1.22337E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14523E-006	1.14523E-006	0.00000E+000	0.00000E+000	1.13604E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	3.87852E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13390E-006	1.13390E-006	0.00000E+000	0.00000E+000	1.12481E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18632E-006	1.18632E-006	0.00000E+000	0.00000E+000	1.17680E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22606E-006	1.22606E-006	0.00000E+000	0.00000E+000	1.22224E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.09	0.05	0.09	0.05	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.05	0.02	0.05	0.02	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	2.13	2.90	4.36	5.45	5.19	5.56	0.00	5.50	5.50	4.19	0.00	5.50
Natural Gas	6.38	6.26	6.24	6.67	6.15	6.15	0.00	6.24	6.24	7.41	5.88	6.24
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.21	15.73	19.98	20.43	17.70
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.32		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.08	0.50		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.05			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.06			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.06			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
Yes	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
Yes	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	7.00	
No	Install High Efficiency Lighting		
Yes	On-site Renewable		100.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Appendix B
Planning Survey Report

Application Form and Planning Survey Report

To Comply With and Receive Permit Coverage Under The East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan

Please complete this application to apply for take authorization under the state and federal East Contra Costa County HCP/NCCP incidental take permits. The East Contra Costa County Habitat Conservancy ("Conservancy") or local jurisdiction (City of Brentwood, City of Clayton, City of Oakley, City of Pittsburg, and Contra Costa County) may request more information in order to deem the application complete.

I. PROJECT OVERVIEW

PROJECT INFORMATION	
PROJECT NAME: Diablo Meadows	
PROJECT TYPE: ☒ Residential ☐ Commercial ☐ Transportation ☐ Utility ☐ Other	
PROJECT DESCRIPTION (BRIEF): 18 unit residential subdivision on 8.66+/- acres. A detailed project description is included in Attachment A.	
PROJECT ADDRESS/LOCATION: West side of Mitchell Canyon Road and east of the south end of Lewis Way in Clayton, Contra Costa County, California.	
PARCEL/PROJECT SIZE (ACRES): 8.66+/- acres	
PROJECT APN(S): 121-090-016-1 and 121-090-011-2	
APPLICATION SUBMITTAL DATE: JULY 2020	**FINAL PSR DATE:** (City/County/Conservancy use)
LEAD PLANNER: Matthew Feske and/or Milan Sikela	
JURISDICTION: ☐ City of Brentwood ☒ City of Clayton ☐ City of Oakley ☐ City of Pittsburg ☐ Contra Costa County ☐ Participating Special Entity* *Participating Special Entities are organizations not subject to the authority of a local jurisdiction. Such organizations may include school districts, irrigation districts, transportation agencies, local park districts, geological hazard abatement districts, or other utilities or special districts that own land or provide public services.	
DEVELOPMENT FEE ZONE: ☐ Zone I ☒ Zone II ☐ Zone III ☐ Zone IV See figure 9-1 of the HCP/NCCP at www.cocohcp.org for a generalized development fee zone map. Detailed development fee zone maps by jurisdiction are available from the jurisdiction.	

PROJECT APPLICANT INFORMATION	
APPLICANT'S NAME: DeNova Homes, Inc.	
AUTHORIZED AGENT'S NAME AND TITLE: Kerri Watt, Director of Entitlements	
PHONE NO.: (925) 605-9304	**APPLICANT'S E-MAIL:** kwatt@denovahomes.com
MAILING ADDRESS: 1500 Willow Pass Court, Concord, CA 94520	

BIOLOGIST INFORMATION[1]	
BIOLOGICAL/ENVIRONMENTAL FIRM: Moore Biological Consultants	
CONTACT NAME AND TITLE: Diane S. Moore, M.S.	
PHONE NO.: (209) 745-1159	**CONTACT'S E-MAIL:** moorebio@softcom.net
MAILING ADDRESS: Moore Biological Consultants, 10330 Twin Cities Rd., Ste. 30, Galt, CA	

[1] A USFWS/CDFW-approved biologist (project-specific) is required to conduct the surveys. Please submit biologist(s) approval request to the Conservancy.

II. PROJECT DETAILS

Please complete and/or provide the following attachments:

1) **Project Description**
Attach as **Attachment A: Project Description**. Provide a detailed written description that concisely and completely describes the project and location. Include the following information:
   - All activities proposed for the site or project, including roads utilized, construction staging areas, and the installation of underground facilities, to ensure the entire project is covered by the HCP/NCCP permit
   - Proposed construction dates, including details on construction phases, if applicable
   - Reference a City/County application number for the project, if applicable
   - General Best Management Practices, if applicable
   - If the project will have temporary impacts, please provide a restoration plan describing how the site will be restored to pre-project conditions, including revegetation seed mixes or plantings and timing

2) **Project Vicinity Map**
Provide a project vicinity map. Attach as **Figure 1** in **Attachment B: Figures**.

3) **Project Site Plans**
Provide any project site plans for the project. Attach as **Figure 2** in **Attachment B: Figures**.

4) **CEQA Document**
Indicate the status of CEQA documents prepared for the project. Provide additional comments below table if necessary.

Type of Document	Status	Date Completed
☒ Initial Study	In preparation	
☐ Notice of Preparation		
☐ Draft EIR		
☐ Final EIR		
☐ Notice of Categorical Exemption		
☐ Notice of Statutory Exemption		
☐ Other (describe)		

The upcoming CEQA review is expected to occur during Summer 2020. This draft PSR has been prepared in support of the project application, providing technical biological information to assist in preparation of the Initial Study/Mitigated Negative Declaration.

III. EXISTING CONDITIONS AND IMPACTS

Please complete and/or provide the following attachments:

1) **Field-Verified Land Cover Map**[2]
Attach a field-verified land cover map in **Attachment B: Figures** and label as **Figure 3**. The map should contain all land cover types present on-site overlaid on aerial/satellite imagery. Map colors for the land cover types should conform to the HCP/NCCP (see *Figure 3-3: Landcover in the Inventory Area* for land cover type legend).

2) **Photographs of the Project Site**
Attach representative photos of the project site in **Attachment B: Figures** and label as **Figure 4**. Please provide captions for each photo.

[2] For PSEs and city or county public works projects, please also identify permanent and temporary impact areas by overlaying crosshatching (permanent impacts) and hatching (temporary impacts) on the land cover map.

3) Land Cover Types and Impacts and Supplemental Tables

- For all terrestrial land cover types please provide calculations to the nearest **hundredth of an acre (0.01)**.
  For aquatic land cover types please provide calculations to the nearest **thousandth of an acre (0.001)**.

- **Permanent Impacts** are broadly defined in the ECCC HCP/NCCP to include all areas removed from an undeveloped or habitat-providing state and includes land in the same parcel or project that is not developed, graded, physically altered, or directly affected in any way but is isolated from natural areas by the covered activity. Unless such undeveloped land is dedicated to the Preserve System or is a deed-restricted creek setback, the development mitigation fee will apply (if proposed, would require Conservancy approval).
- **Temporary Impacts** are broadly defined in the ECCC HCP/NCCP as any impact on vegetation or habitat that does not result in permanent habitat removal (i.e. vegetation can eventually recover).
- If **wetland (riparian woodland/scrub, wetland, or aquatic)** land cover types are present on the parcel but will not be impacted please discuss in the following section 4) Jurisdictional Wetlands and Waters. Wetland impact fees will only be charged if wetland features are impacted. However, development fees will apply to the entire parcel.
- **Stream** land cover type is considered a linear feature where impacts are calculated based on length impacted. The acreage within a stream, below Top of Bank (TOB), must be assigned to the adjacent land cover type(s). Insert area of impact to stream below TOB in parentheses after the Land Cover acreage number (e.g., Riparian Woodland/Scrub: 10 (0.036) – where 10 is the total impacted acreage including 0.036 acre, which is the acreage within stream TOB). Complete following supplemental **Stream Feature Detail** table to provide information for linear feet.
- **Total Impacts** acreage should be the total parcel acreage (development project) or project footprint acreage (rural infrastructure or utility project).

Table 1: Land Cover Types and Impacts

Land Cover Type	Permanent Impacts	Temporary Impacts	*Proposed for HCP/NCCP Dedication on the Parcel (Requires Conservancy Approval)*	
			Stream Setback	*Preserve System Dedication*
Grassland				
Annual Grassland	8.07 acres			
Alkali Grassland				
Ruderal				
Shrubland				
Chaparral and Scrub				
Woodland				
Oak Savannah				
Oak Woodland				
Riparian				
Riparian Woodland/Scrub				
Wetland				
Permanent Wetland				
Seasonal Wetland	0.19 acres (will be avoided)			
Alkali Wetland				
Aquatic				
Aquatic (Reservoir/Open Water)				
Slough/Channel				
Pond				
Stream (in linear feet)	0.02 acres (345 lineal feet – will be avoided)	-	-	-
Irrigated Agriculture				
Pasture				
Cropland				
Orchard				
Vineyard				
Other				
Nonnative woodland				
Wind turbines				
Developed (not counted toward Fees)				
Urban	0.38			
Aqueduct				
Turf				
Landfill				
TOTAL IMPACTS	8.66			

Identify any uncommon vegetation and uncommon landscape features[3]:

Supplemental to Table 1: Uncommon Vegetation and Landscape Features

	Permanent Impacts	Temporary Impacts
Uncommon Grassland Alliances		
Purple Needlegrass Grassland		
Blue Wildrye Grassland		
Creeping Ryegrass Grassland		
Wildflower Fields		
Squirreltail Grassland		
One-sided Bluegrass Grassland		
Serpentine Bunchgrass Grassland		
Saltgrass Grassland		
Alkali Sacaton Bunchgrass Grassland		
☐ Other		
Uncommon Landscape Features		
Rock Outcrops		
Caves		
Springs and seeps		
Scalds		
Sand Deposits		
☐ Mines[4]		
☐ Buildings (bat roosts)[3]		
☒ Potential nest sites (trees or cliffs)[3]	103 trees (most will be retained)	

There are a total of 103 trees within the project site. Several of these trees are too small to support nesting raptors, but other songbirds may use smaller trees in the site for nesting.

Please provide details of impacts to stream features:

Stream Name: None

Watershed: Mt. Diablo Creek

Supplemental to Table 1: Stream Feature Detail[5]

Stream Width	Stream Type[6]	Permanent Impacts (linear feet)[7]	Temporary Impacts (linear feet)[7]
☒ ≤ 25 feet wide ☐ > 25 feet wide	☐ Perennial ☐ Intermittent ☐ Ephemeral, 3rd or higher order ☒ Ephemeral, 1st or 2nd order	0	0
☐ ≤ 25 feet wide ☐ > 25 feet wide	☐ Perennial ☐ Intermittent ☐ Ephemeral, 3rd or higher order ☐ Ephemeral, 1st or 2nd order		
☐ ≤ 25 feet wide ☐ > 25 feet wide	☐ Perennial ☐ Intermittent ☐ Ephemeral, 3rd or higher order ☐ Ephemeral, 1st or 2nd order		

[3] These acreages are for Conservancy tracking purposes. Impacts to these uncommon vegetation and landscape features should be accounted for within the land cover types in Table 1 (e.g., x acres of purple needlegrass in this supplemental table should be accounted for within annual grassland in Table 1).

[4] Insert amount/number, not acreage. Provide additional information on these features in Attachment A: Project Description.

[5] Use more than 1 row as necessary to describe impacts to streams on site.

[6] See glossary (Appendix A) for definition of stream type and order.

[7] Stream length is measured along stream centerline, based on length of impact to any part of the stream channel, TOB to TOB.

4) Summary of Land Cover Types

Please provide a written summary of descriptions for land cover types found on site including characteristic vegetation.

Annual Grassland: The west part of the site consists of rolling hill vegetated with annual grassland vegetation (Figures 3 and 4a-4c). The east "panhandle" of the site near Mitchell Canyon Road is a flat terrace vegetated with annual grassland vegetation, although this area is much more disturbed by periodic mowing and/or disking presumably for fire suppression and weed abatement. Dominant species in the annual grasslands in the west part of the site include oats (*Avena fatua*), ripgut brome (*Bromus diandrus*), foxtail barley (*Hordeum murinum*), California poppy (*Eschscholzia californica*), common bedstraw (*Galium aparine*), cut leaved geranium (*Geranium dissectum*) and (*Vicia americana*). Dominant species in the more disturbed grassland areas include oats, ripgut brome, black mustard (*Brassica nigra*), yellow star-thistle (*Centaurea solstitialis*), radish (*Raphanus sativa*), rose clover (*Trifolium hirtum*), and filaree (*Erodium* spp.).

Seasonal Wetland: There is marginal seasonal wetland feature in the west part of the site, located in a low valley at the base of two notable hillslopes (Figures 4d-4e and Wetland Delineation in Attachment E). Vegetation associated with this seasonal wetland includes perennial ryegrass (*Lolium perenne*), creeping wild rye (*Leymus triticoides*), curly dock (*Rumex crispus*), a few other marginal hydrophytes, and some upland species including black mustard and common bedstraw (*Galium aparine*).

Stream: There is a very weak ephemeral stream along the west edge of the site with a barely discernible Ordinary High Water Mark (OHWM) (Figure 4e and Wetland Delineation in Attachment E). The channel is approximately 1 to 2 feet wide with no adjacent wetlands. The south end of the seasonal wetland abruptly transitions to a defined channel with notable bed and bank that is best described as an ephemeral stream (See Wetland Delineation in Attachment E). The channel is approximately 3 feet wide with no adjacent wetlands.

Urban/Developed: There is an area in the northwest part of the site (Figure 3) that is depicted on the ECCC HCP/NCCP Map of Fee Zones and Land Cover Types as urbanized and previously developed. An historical aerial photograph from 1939 shows almost the entire site as an orchard; a home site was likely present in a gap in the orchard in the area mapped as urbanized. While no evidence of structures remains, there is a notably straight row of walnuts in this area that was likely along an old fence line and a depressional area in the nearby seasonal wetland that appears to the remnants of a small constructed stock pond.

Trees: There are trees scattered throughout the project site, including remnant orchard trees and stumps. Valley oak (*Quercus lobata*) is the most dominant tree species, intermixed with lesser numbers of black walnut (*Juglans californica*), coast live oak (Quercus agrifolia), and coast redwood (Sequoia sempervirens). There are also a few relatively small ornamental species and fruit trees such as California pepper tree (*Schinus molle*), almond (*Prunus dulcis*), and olive (*Olea europeaea*) in the site (Figure 5a). Several of the trees in the east part of the site are along the fence-lines bordering the site and adjacent parcels.

5) Jurisdictional Wetlands and Waters

If wetlands and waters are present on the project site, project proponents must conduct a delineation of jurisdictional wetlands and waters. Jurisdictional wetlands and waters are defined on pages 1-18 and 1-19 of the ECCC HCP/NCCP as the following land cover types: permanent wetland, seasonal wetland, alkali wetland, aquatic, pond, slough/channel, and stream. It should be noted that these features differ for federal and state jurisdictions. If you have identified any of these land cover types in Table 1, complete the section below.

a) Attach the wetland delineation report as **Attachment E: Wetland Delineation.** If a wetland delineation has not been completed, please explain below in section 4c.

b) Please check the following permits the project may require. Please submit copies of these permits to the Conservancy prior to the start of construction:

☐ CWA Section 404 Permit[8] ☐ CWA Section 401 Water Quality Certification

☐ Waste Discharge Requirements ☐ Lake and Streambed Alteration Agreement

c) Provide any additional information on impacts to jurisdictional wetland and waters below, including status of the permit(s):

A wetland delineation of the site was conducted on April 3, 2020 and April 29, 2020. There is a total of 0.21 acres of potentially jurisdictional Waters of the U.S., including Wetlands in the project site. This total includes a 0.19+/- acre seasonal wetland and 0.020+/- acres of ephemeral streams, which are respectively labeled "SW-1", and "ES-1" and "ES-2"on the Wetland Delineation Map (Attachment E).

The project has been designed to accomplish 100% avoidance of potentially jurisdictional Waters of the U.S. and wetlands. Further, the project provides minimum 25-foot setbacks between potentially jurisdictional features and the limits of grading (Figures 2c-2f).

6) Species-Specific Planning Survey Requirements

Based on the land cover types found on-site and identified in Table 1, check the applicable boxes in Table 2a.

Table 2a. Species –Specific Planning Survey Requirements

Land Cover Type in Project Area	Required Survey Species	Habitat Element in Project Area	Planning Survey Requirement[9]	Info in HCP
☒ Grasslands, oak savannah, agriculture, or ruderal	☒ San Joaquin kit fox	Assumed if within modeled range of species	If within modeled range of species, identify and map potential breeding or denning habitat within the project site and a 250-ft radius around the project footprint.	pp. 6-37 to 6-38
	☒ Western burrowing owl	Assumed	Identify and map potential breeding habitat within the project site and a 500-ft radius around the project footprint. Please note the HCP requires buffers for occupied burrows. Surveys may need to encompass an area larger than the project footprint.	pp. 6-39 to 6-41
☐ Aquatic (ponds, wetlands, streams, sloughs, channels, and marshes)	☐ Giant garter snake	Aquatic habitat accessible from the San Joaquin River	Identify and map potential habitat.	pp. 6-43 to 6-45
	☐ California tiger salamander	Ponds and wetlands Vernal pools Reservoirs Small lakes	Identify and map potential breeding habitat. Document habitat quality and features. Provide the Conservancy with photo-documentation and report.	pp. 6-45
	☐ California red-legged frog	Slow-moving streams, ponds and wetlands	Identify and map potential breeding habitat. Document habitat quality and features. Provide the Conservancy with photo-documentation and report.	p. 6-46
	☐ Covered shrimp	Seasonal wetlands Vernal pools Sandstone rock outcrops Sandstone depressions	Identify and map potential habitat. Please note the HCP requires a 50 foot non-disturbance buffer from seasonal wetlands that may be occupied by covered shrimp. Surveys may need to encompass an area larger than the project footprint.	pp. 6-46 to 6-48

[8] The USACE Sacramento District issued a Regional General Permit 1 (RGP) related to ECCC HCP/NCCP covered activities. The RGP is designed to streamline wetland permitting in the entire ECCC HCP/NCCP Plan Area by coordinating the avoidance, minimization, and mitigation measures in the Plan with the Corps' wetland permitting requirement. Applicants seeking authorization under this RGP shall notify the Corps in accordance with RGP general condition number 18 (Notification).

[9] The planning survey requirements in this table are not comprehensive. Please refer to Chapter 6.4.3 in the ECCC HCP/NCCP for more detail.

☒ Any	☐ Townsend's big-eared bat	Rock formations with caves Mines Abandoned buildings outside urban area	Map and document potential breeding or roosting habitat.	pp. 6-36 to 6-37
	☐ Swainson's hawk	Potential nest sites within 1,000 feet of project	Inspect large trees for presence of nest sites. Document and map.	pp. 6-41 to 6-43
	☒ Golden Eagle	Potential nest sites with ½ mile of project	Inspect large trees for presence of nest sites. Document and map.	pp. 6-38 to 6-39
Surveys for all covered species must be conducted by a qualified biologist (USFWS/CDFW project-specific approved). Please submit biologist approval request to the East Contra Costa County Habitat Conservancy. Surveys for all covered species must be conducted according to the respective USFWS or CDFW survey protocols, as identified in Chapter 6.4.3 in the HCP/NCCP.				

7) Planning Survey Species Habitat Maps

Provide Planning Survey Species Habitat Maps as required in Table 2a, attach as **Figure 5** in **Attachment B: Figures**.

8) Results of Species Specific Surveys

Provide a written summary describing the results of the planning surveys. Please discuss the location, quantity, and quality of suitable habitat for specified covered wildlife species on the project site.

General Setting: The project site is in Clayton, in Contra Costa County, California (Figure 1). The site is in Section 14 within Township 1 North, Range 1 West of the USGS Clayton topographic quadrangle (Figure 2). The site slopes generally down toward the northwest and there is a notable valley in the west-central part of the site (Figure 2b). Site elevations range from approximately 475 to 550 feet above mean sea level. Land uses in this portion of Contra Costa County are primarily residential and open space, mostly used for rangeland. Lands to the north and east of the site are primarily residential subdivisions. There are mines and open rangeland areas to the west and south of the site.

The site provides potentially suitable habitat for San Joaquin kit fox (*Vulpes macrotis mutica*), western burrowing owl (*Athene cunnicularia*), and golden eagles (*Aquila chrysaetos*) (Table 1 and Figure 3). Each of these species is discussed below.

San Joaquin Kit Fox: The site consists of annual grassland and ruderal grassland (Figure 5a) that is just within the historical range of San Joaquin kit fox. California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB) contains no occurrences of San Joaquin kit fox within 0.5 miles of the site (Figure 5b). The site is within the modeled range of the species and is identified as "Suitable Core Habitat" in Appendix D of the ECCCHCP/NCCP. Therefore, the on-site grasslands were inspected for burrows or dens with evidence of kit fox occupancy (i.e. scat, tracks) or burrows or dens that meet the dimensional criteria for kit fox. Comprehensive inspection of potential den habitat was accomplished by walking meandering transects throughout the property. No potential San Joaquin kit fox dens were observed.

Western Burrowing Owl: The site consists of annual grassland and ruderal grassland (Figure 5a) that is within the range of western burrowing owl. CDFW's CNDDB contains no occurrences of western burrowing owl within 0.5 miles of the site (Figure 5b). The site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Comprehensive inspection of potential burrowing owl habitat was accomplished by walking meandering transects throughout the property. No western burrowing owls or burrows with evidence of burrowing owl occupancy were observed.

Golden Eagle: The site is annual grassland and ruderal grassland that is within the range of golden eagle. CDFW's CNDDB contains no occurrences of western burrowing owl within 0.5 miles of the site (Figure 5b). Only a few of the trees depicted on Figure 5a are large enough to support golden eagle. There are also a few potential nest trees near and visible from the site that are potentially suitable. Trees in and visible from the site were inspected for raptor stick nests. No raptor stick nests were observed in the on-site trees or off-site trees visible from the site. No golden eagles were observed and this species nests more often on cliffs in remote natural areas than in trees near urban areas.

Other Covered Species: While there is an ephemeral stream in the site, it does not provide suitable habitat for California red-legged frog (*Rana auroura draytonii*). Similarly, the seasonal wetland swale in the site does not provide suitable habitat for California tiger salamander (*Ambystoma californiense*) or vernal pool branchiopods, which are covered species that occur in vernal pools and stock ponds. These species are discussed below, as well as a few other covered species for which there is modeled habitat in the site.

The site is within the range of California red-legged frog. The site is "potential migration and aestivation habitat" in the modeled range of California red-legged frog as mapped in Appendix D of the ECCCCHCP. While the stream along the west edge of the site is mapped as potential breeding habitat for this species in Appendix D of the ECCCCHCP, this 1-2 foot wide ephemeral stream (EC-2) does not provide suitable California red-legged frog breeding habitat. California red-legged frog may travel across the on-site grasslands on occasion while dispersing from off-site aquatic habitats and could potentially aestivate in the grasslands in the west part of the site. Due to periodic disking, the grasslands in the east part of the site that will be developed are not suitable for aestivating California red-legged frogs. There are no occurrences of California red-legged frog in the CNDDB (2020) within a few miles of the site.

The seasonal wetland in the site (Figure 3) is not a vernal pool. The swale has directional flow and is saturated seasonally, but surface water is present only during or shortly after rain events. This seasonal wetland feature is moderately disturbed from periodic mowing and past cultivation of orchard crops. This seasonal wetland swale does not provide suitable habitat for vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), or other special-status branchiopods.

The site is also within the range of California tiger salamander. The site is "suitable migration and aestivation habitat" in the modeled range of California tiger salamander as mapped in Appendix D of the ECCCCHCP. A pond in the mine to the south of the site is mapped as potential breeding habitat for this species. Due to its hydrological regime, the seasonal wetland in the site does not provide suitable breeding habitat for California tiger salamander. Due to intensive disking, the grasslands in the portion of the site that will be developed are not suitable for California tiger salamander aestivation. There are no occurrences of California tiger salamander in the CNDDB (2020) within a few miles of the site.

While the site is also mapped in Appendix D of the ECCCCHCP as potential movement habitat for Alameda whipsnake (*Masticophis lateralis euryxanthus*), it does not contain the mosaic of scrub, chaparral, grassland, and woodland habitat required by this species.

The site mapped in Appendix D of the ECCCCHCP as "primary foraging habitat" for tricolored blackbird (*Agelaius tricolor*). The on-site grasslands may be used by this species for foraging.

Finally, the stream along the west edge of the site is mapped in Appendix D of the ECCCCHCP as "potential movement habitat" for western pond turtle (*Emys marmorata*) and is mapped in Appendix D of the ECCCCHCP as "suitable low use habitat" for foothill yellow-legged frog (*Rana boylii*). However, due to its hydrological regime, this ephemeral stream is unlikely to be used by either species.

9) Covered and No-Take Plants

Please check the applicable boxes in Table 2b based on the land cover types found in the project area. If suitable land cover types are present on site, surveys must be conducted using approved CDFW/USFWS methods during the appropriate season for identification of covered and no-take species (see page 6-9 of the ECCC HCP/NCCP). Reference populations of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant species is visible and detectable at the time surveys are conducted. In order to complete all the necessary covered and no-take plant surveys, spring, summer, and fall surveys may be required.

Table 2b. Covered and No-Take Plant Species

Plant Species	Covered (C) or No-Take (N)	Associated Land Cover Type	Typical Habitat or Physical Conditions, if Known	Typical Blooming Period	Suitable Land Cover Type Present
Adobe navarretia (*Navarretia nigelliformis* ssp. *radians*) [a]	C	Annual Grassland	Generally found on clay barrens in Annual Grassland [b]	Apr–Jun	☒ Yes ☐ No
Alkali milkvetch (*Astragalus tener* ssp. *tener*)	N	Alkali grassland Alkali wetland Annual grassland Seasonal wetland	Generally found in vernally moist habitat in soils with a slight to strongly elevated pH	Mar–Jun	☒ Yes ☐ No
Big tarplant (*Blepharizonia plumosa*)	C	Annual grassland	Elevation below 1500 feet [d] most often on Altamont Series or Complex soils	Jul–Oct	☒ Yes ☐ No
Brewer's dwarf flax (*Hesperolinon breweri*)	C	Annual grassland Chaparral and scrub Oak savanna Oak woodland	Generally, restricted to grassland areas within a 500+ buffer from oak woodland and/or chaparral/scrub [d]	May–Jul	☒ Yes ☐ No
Brittlescale (*Atriplex depressa*)	C	Alkali grassland Alkali wetland	Restricted to soils of the Pescadero or Solano soil series; generally found in southeastern region of plan area [d]	May–Oct	☐ Yes ☒ No
Caper-fruited tropidocarpum (*Tropidocarpum capparideum)*	N	Alkali grassland		Mar–Apr	☐ Yes ☒ No
Contra Costa goldfields (*Lasthenia conjugens*)	N	Alkali grassland Alkali wetland Annual grassland Seasonal wetland	Generally found in vernal pools	Mar–Jun	☒ Yes ☐ No
Diablo Helianthella (*Helianthella castanea*)	C	Chaparral and scrub Oak savanna Oak woodland	Elevations generally above 650 feet [d]	Mar–Jun	☐ Yes ☒ No
Diamond-petaled poppy (*Eschscholzia rhombipetala*)	N	Annual grassland		Mar–Apr	☒ Yes ☐ No
Large-flowered fiddleneck (*Amsinckia grandiflora*)	N	Annual grassland	Generally on clay soil	Apr–May	☒ Yes ☐ No
Mount Diablo buckwheat (*Eriogonum truncatum*)	N	Annual grassland Chaparral and scrub	Ecotone of grassland and chaparral/scrub	Apr–Sep	☒ Yes ☐ No
Mount Diablo fairy-lantern (*Calochortus pulchellus*)	C	Annual grassland Chaparral and scrub Oak savanna Oak woodland	Elevations generally between 650 and 2,600 [d]	Apr–Jun	☒ Yes ☐ No
Mount Diablo Manzanita (*Arctostaphylos auriculata*)	C	Chaparral and scrub	Elevations generally between 700 and 1,860 feet; restricted to the eastern and northern flanks of Mt. Diablo [d] and the vicinity of Black Diamond Mines	Jan–Mar	☐ Yes ☒ No
Recurved larkspur (*Delphinium recurvatum*)	C	Alkali grassland Alkali wetland		Mar–Jun	☐ Yes ☒ No
Round-leaved filaree (*California macrophylla*) [c]	C	Annual grassland		Mar–May	☒ Yes ☐ No
San Joaquin spearscale (*Extriplex joaquiniana*) [e]	C	Alkali grassland Alkali wetland		Apr–Oct	☐ Yes ☒ No

Showy madia (*Madia radiata*)	C	Annual grassland Oak savanna Oak woodland	Primarily occupies open grassland or grassland on edge of oak woodland	Mar–May	☒ Yes ☐ No

[a] The species *Navarretia nigelliformis* subsp. *nigelliformis* is no longer considered to occur within Contra Costa County based on specimen annotations at the UC and Jepson Herbaria at the University of California Berkeley as well as the opinions of experts in the genus. This taxon is now recognized as *Navarretia nigelliformis* subsp. *radians.* Any subspecies of *Navarretia nigelliformis* encountered as a part of botanical surveys in support of a PSR should be considered as covered under this HCP/NCCP.
[b] Habitat for the *Navarretia nigelliformis* subspecies that occurs within the inventory are is inaccurately described in the HCP/NCCP as vernal pools. The entity within the Inventory generally occupies clay barrens within Annual Grassland habitat, which is an upland habitat type.
[c] From California Native Plant Society. 2007. *Inventory of Rare and Endangered Plants* (online edition, v7-07d). Sacramento, CA. Species may be identifiable outside of the typical blooming period; a professional botanist shall determine if a covered or no take plant occurs on the project site. Reference population of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant is visible and detectable at the time surveys are conducted.
[d] See Species Profiles in Appendix D of the Final HCP/NCCP. Reference populations of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant species is visible and detectable at the time surveys are conducted.
[e] In the recent update to the Jepson eflora (JFP 2013) *Atriplex joaquinana* has been circumscribed and segregated into a new genus called *Extriplex* based on the work of Elizabeth Zacharias and Bruce Baldwin (2010). The etymology of the genus *Extriplex* means, "beyond or outside Atriplex".

10) Results of Covered and No-Take Plant Species

Provide a written summary describing the results of the planning surveys conducted as required in Table 2b. Describe the methods used to survey the site for all covered and no-take plants, including the dates and times of all surveys conducted (see Tables 3-8 and 6-5 of the ECCC HCP/NCCP for covered and no-take plants), including reference populations visited prior to conducting surveys.

If any covered or no-take plant species were found, include the following information in the results summary:

- Description and number of occurrences and their rough population size.
- Description of the "health" of each occurrence, as defined on pages 5-49 and 5-50 of the HCP/NCCP.
- A map of all the occurrences.
- Justification of surveying time window, if outside of the plant's blooming period.
- The CNDDB form(s) submitted to CDFW (if this is a new occurrence).
- A description of the anticipated impacts that the covered activity will have on the occurrence and how the project will avoid impacts to all covered and no-take plant species. If impacts to covered plant species cannot be avoided and plants will be removed by covered activity, the Conservancy must be notified and has the option to salvage the covered plants. All projects must demonstrate avoidance of all six no-take plants (see table 6-5 of the HCP/NCCP).

Survey Methods

Surveys for special-status plants and to assess potentially suitable habitat for special-status plants were undertaken on April 9, April 29, and July 14 2020, by botanist Jeff Glazner. The site was systematically searched for special-status plants by walking throughout the site, identifying plants as possible in the field, and collecting specimens for subsequent identification in the laboratory. The field surveys were floristic in nature with the goal of identifying species observed to the taxonomic level necessary to determine if it was a special-status species or not.

Survey Results and Discussion

No covered or no-take plants were observed or are expected to occur in the project site. The annual grassland in the site is moderately to highly disturbed and does not provide potentially suitable habitat for any of the covered plants that occur in more natural annual grasslands in the greater project vicinity. No alkaline soils are present on the site. The seasonal wetland is also disturbed and provides very poor quality habitat for covered plants that occur in seasonal wetland habitats (i.e., alkali milkvetch and Contra Costa Goldfields). Each of the plant species identified in Table 2b as potentially occurring in annual grassland or seasonal wetland habitats is discussed below.

Adobe (Shining) Navarretia (*Navarretia nigelliformis* ssp. *radians*)[10]: This navarretia, a dicot of the Polemoniaceae family, is an annual herb native to California. It is ranked by the CNPS as 1.B.2. The herbage is

[10] Per Table 2B, the species *Navarretia nigelliformis* subsp. n*igelliformis* is no longer considered to occur within Contra Costa County based on specimen annotations at the UC and Jepson Herbaria at the University of California Berkeley as well as the opinions of experts in the genus. This taxon is now recognized as *Navarretia nigelliformis* subsp. *radians.*

light gray-green with branches decumbent. The corolla is included, 9–11 mm long, with lobes 1-2 mm. The on-line *Inventory of Rare and Endangered Plants* (2020) describes shining navarretia as occurring in vernal pools and clay depressions, at elevations between 492 and 3,280 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. There are no vernal pools in the site and other than the wetland swale, no mesic areas were observed in the site. The species was not detected during the rare plant survey.

Alkali Milkvetch (*Astragalus tener* ssp. *tener*): Alkali milkvetch, a dicot of the Fabaceae family, is an annual herb native and endemic to California. It is ranked by the CNPS as 1.B.2. It produces upright stems up to 30 cm tall with several lance-shaped to oval leaflets. The inflorescence is a dense cluster of pinkish-purple white-smudged flowers. The California Native Plant Society (CNPS) on-line *Inventory of Rare and Endangered Plants* (2020) describes alkali milkvetch as occurring in alkaline habitats of playas, valley and foothill grasslands in adobe clay soils, and vernal pools, at elevations up to 197 feet. It grows in both coastal and inland areas. The CNPS Inventory also describes this species as extirpated in Contra Costa County. The ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. No alkaline soil is present on the site, and the species was not detected during the rare plant survey.

Big Tarplant (*Blepharizonia plumosa*): Big tarweed, a dicot of the Asteraceae family, is an annual herb native and endemic to California. It is ranked by the CNPS as 1.B.1. This aromatic annual herb produces a hairy, erect stem up to 2 meters tall. The leaves are linear in shape and sometimes toothed. The inflorescence bears several flower heads, each with a fringe of up to 13 red-veined white ray florets. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes big tarplant as occurring in valley and foothill grassland habitats (usually clay) at elevations between 98 and 1,657 feet. It grows in the Central Coast Ranges and adjacent sections of the southern San Francisco Bay Area and Central Valley. The site is not mapped in the ECCCHCP/NCCP as "Suitable Low Potential Habitat" or as "Suitable Habitat" for big tarplant although suitable habitat is mapped just to the west. It is unlikely to occur on the site, and it was not detected during the summer (July) survey.

Brewer's Dwarf Flax (*Hesperolinon breweri*): Brewer's dwarf flax, a dicot of the Linaceae family, is an annual herb native and endemic to California, where it is known from 3 counties in the San Francisco Bay Area. It is ranked by the CNPS as 1.B.2. It grows erect to a height of 5 to 20 cm. Its narrow, linear leaves are greenish to purplish in color, and it produces dense inflorescences of flowers with glandular sepals and five bright yellow petals. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Brewer's dwarf flax as occurring in chaparral, cismontane woodland, and valley and foothill grasslands, usually in serpentinite soils, at elevations between 295 and 2,953 feet. The site is not mapped in the ECCCHCP/NCCP as "Suitable Low Potential Habitat" or as "Suitable Habitat" for Brewer's dwarf flax. While the annual grassland on the site may provide potentially suitable habitat for Brewer's dwarf flax, and the species was not detected during the rare plant survey.

Brittlescale *(Atriplex depressa):* Brittlescale, a dicot, is an annual herb of the Chenopodiacae family that is native and endemic to California. It is ranked by the CNPS as 1.B.2. Brittlescale occurs on alkali soils and typically occurs in barren areas within alkali grassland, alkali meadow, and alkali scrub. The CNPS states that the species occurs in alkaline and clay soils of chenopod scrub, meadows and seeps, playas, valley and foothill grassland and vernal pools. It is occasionally found on the margins of alkali vernal pools. Brittlescale occurs along the western side of the Great Valley from Glenn County to Merced County and in the small valleys of the inner Coast Ranges, including the Livermore Valley. It occurs in the broad flood basins of the valley floor and on alluvial fans associated with the major streams draining from the inner Coast Range foothills. It is generally found at low elevations but has been collected up to 1,055 feet. Brittlescale is diminutive and generally grows prostrate; it rarely exceeds 20 centimeters in height. It blooms from April to October. The site is not mapped

in the ECCCHCP/NCCP as "Suitable Habitat" for brittlescale, no alkaline soil is present on the site, and the species was not detected during the rare plant survey.

Caper-fruited tropidocarpum (*Tropidocarpum capparideum*): Caper-fruited tropicocarpum is an annual herb in the Brassicaceae (mustard) family that is native to California. It is ranked by the CNPS as 1.B.1. It occurs in alkaline soils of low hills and Valley and foothill grassland at elevation less than 1,312 feet. The species was generally considered to be extinct since the 1950s, but it has been reported since. According to CNPS, occurrences in Alameda, Contra Costa, Glenn, Santa Clara, and San Joaquin counties are presumed extirpated. Flowers are obovate to spoon-shaped, yellow, occasionally tinged purple, and the bloom period is from March to April. Habitat distribution has not been modeled for caper-fruited tropicocarpum in the ECCCHCP/NCCP. No alkaline soil is present on the site, and the species was not detected during the rare plant survey.

Contra Costa Goldfields (*Lasthenia conjugens*): Contra Costa goldfields, a dicot of the Asteraceae family, is an annual herb native and endemic to California, primarily in vernal pools. It is ranked by the CNPS as 1.B.1. Stems are simple or freely branched and erect attaining a height of less than 40 cm. The yellow ray flowers may number six to thirteen petals, and the five- to ten-millimeter ligules are yellow as well. The yellow disk flowers are numerous, and anther tips are linear to somewhat ovate. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Contra Costa goldfields as occurring in mesic habitats of cismontane woodland, alkaline playas, valley and foothill grasslands, and vernal pools at elevations up to 1,541 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. There are no vernal pools on the site and no suitable habitat for this species. It was not detected during the rare plant survey.

Diablo helianthella (*Helianthella castanea*): Diablo helianthella, a dicot, is a perennial herb of the sunflower family (Asteraceae) that is native to California and endemic to the San Francisco Bay Area, occurring in the Diablo Range, Berkeley Hills, and San Bruno Mountain. It is ranked by the CNPS as 1.B.2. It usually occurs in thin, rocky, well-drained soils, often in partial shade. According to CNPS, its habitats include broadleafed upland forest, chaparral, cismontane and riparian woodland, coastal scrub, and valley and foothill grassland. It most often occurs at elevations below 2,400 feet but it has been collected from locations as high as 3,800 feet. Diablo helianthella grows up to 18 inches tall. Its leaves are up to 6 inches long. The plant usually produces one yellow flower head per stem. Each head contains both ray flowers and disc flowers. It blooms from March to June. The ECCCHCP/NCCP model predicting where this species may occur within the plan area shows these areas to the west, south and east, but not in the study area. Diablo helianthella was not detected during the rare plant survey.

Diamond-petaled poppy (*Eschscholzia rhombipetala*): Diamond-petaled poppy, a dicot of the Papaveraceae family, is an annual herb native and endemic to California, growing 5-30 cm. tall. It is ranked by the CNPS as 1.B.1. Diamond-petaled California poppy may have erect or nodding buds, the flowers are small and yellow, and the bases of the leaves are fleshy. The fruits are conspicuous because they are 4 to 7 cm. long, which may nearly equal the height of the plants The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes diamond-petaled poppy as occurring in valley and foothill grassland habitats with alkaline or clay soils, at elevations up to 3,198 feet.; the CNPS Inventory describes this species as extirpated in Contra Costa County. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. No areas of alkaline or clay soils were observed in the site. While the annual grassland on the site may provide potentially suitable habitat for diamond-petaled poppy, it was not detected during the rare plant survey.

Large-flowered fiddleneck (*Amsinckia grandiflora*): Large-flowered fiddleneck, a dicot of the Boraginaceae family, is an annual herb native and endemic to California. It is ranked by the CNPS as 1.B.1. It is

a striking annual plant, growing to 50 cm. tall and having bright orange flowers (14-20 mm. long). The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes large-flowered fiddleneck as occurring in cismontane woodland and valley and foothill grassland habitats at elevations between 902 and 1,804 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. While the annual grassland in the site may provide potentially suitable habitat for large-flowered fiddleneck, the site is below the elevation range of this species, and this species was not detected during the rare plant survey.

Mount Diablo buckwheat (*Eriogonum truncatum*): Mount Diablo buckwheat, a dicot of the Polygonaceae family, is an annual herb native and endemic to California, known only from Mt. Diablo in Contra Costa County. It is ranked by the CNPS as 1.B.1. It grows between 150–750 millimeters high and blooms with several dozen pinkish flowers, having a maroon line down the center of each petal. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Mount Diablo buckwheat as occurring in sandy soils of chaparral, coastal scrub, and valley and foothill grassland habitats, at elevations between 10 and 1,148 feet. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. No areas of sandy soils were observed in the site. While the annual grassland in the site may provide potentially suitable habitat for Mount Diablo buckwheat, this species was not detected during the rare plant survey.

Mount Diablo fairy-lantern (*Calochortus pulchellus*): Mount Diablo fairy-lantern, a monocot of the Liliaceae family, is a perennial herb (bulb) that is native and endemic to California. It is ranked by the CNPS as 1.B.2. It grows a branching stem up to about 30 cm. tall. The basal leaf is up to 40 cm. long and does not wither at flowering. The inflorescence is a solitary flower or a cluster of several flowers, which are nodding and usually spherical with all their petal tips touching. The three sepals and three petals are 2 or 3 cm long and pale to deep yellow. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes Mount Diablo fairy-lantern as occurring in chaparral, cismontane or riparian woodland, and valley and foothill grassland habitats at elevations between 98 and 2,756 feet. In contrast, the ECCCHCP/NCCP describes this species as occurring at elevations between 650 and 2,600 feet. The site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat". While the annual grassland in the site may provide potentially suitable habitat for Mount Diablo fairy-lantern, this species was not detected during the rare plant survey.

Mount Diablo manzanita (*Arctostaphylos auriculata*): Mount Diablo manzanita, a dicot, is an evergreen shrub that is native and endemic to Contra Costa County, California. It is ranked by the CNPS as 1.B.3. Mount Diablo manzanita occurs primarily in chaparral (sandstone) and cismontane woodland. It can be found as an understory shrub in coast live oak woodland. It is found only on Mount Diablo and in the adjacent foothills, between 700 and 1,860 feet. Mount Diablo manzanita is generally between 1 and 4.5 meters tall with serpentine, glandless stems covered in white hair. The short, silvery leaves overlap and have deeply lobed bases. It flowers densely in white. The Mount Diablo Manzanita has no basal burl for regrowth and must propagate by seed. Its bloom period is from January to March. The site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat" for Mount Diablo manzanita; furthermore, the study area is below the reported range for this species, and it was not detected during the rare plant survey.

Recurved larkspur (*Delphinium recurvatum*). Recurved larkspur, a perennial herb, is a member of the buttercup family (Ranunculaceae) that is native and endemic to California. It is ranked by the CNPS as 1.B.2. Recurved larkspur occurs on alkaline soils in chenopod scrub, cismontane woodland, and valley and foothill grasslands ranging in elevation from 328 to 6,562 feet. The species now appears to be very rare outside the southern San Joaquin Valley. Four occurrences are reported from the ECCCHCP/NCCP inventory area, three of which are on private land southeast of Byron. This species reaches a maximum height of about half a meter. Its deeply lobed leaves are mainly basal, with those located further up the dark purple stem being much smaller. The flowers are generally pale blue, with the sepals and lower petals darker than the upper petals.

The sepals are usually curved back, the trait which gives the plant its name. It blooms from March to June. No alkaline soils are present on the site, and the site is located below the elevational range of the species. In addition, the site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat" for recurved larkspur, and the species was not detected during the rare plant survey.

Round-leaved filaree (*California macrophylla*): Round-leaved filaree, a dicot of the Geraniaceae family, is an annual herb native to California. It is ranked by the CNPS as CBR (Considered but Rejected) (CNPS 2020). It grows only a few centimeters high, forming a patch of slightly lobed, somewhat kidney-shaped to rounded leaves on long, slender petioles. The inflorescence is an umbel of flowers with petals around a centimeter long and white in color, often tinted pinkish or purplish. The fruit has a fuzzy base and a long, narrow style which may reach 5 cm. in length. The 2016 version of the CNPS on-line *Inventory of Rare and Endangered Plants* described round-leaved filaree as blooming from March through May and occurring in annual grassland habitats with clay soils, at elevations between 49 and 3,937 feet. The 2020 version of the *Inventory* provides no description of the species. The site is not mapped in the ECCCHCP/NCCP as "Suitable Habitat" for round-leaved filaree, and the species was not detected during the rare plant survey.

San Joaquin spearscale (*Atriplex joaquiniana*): San Joaquin spearscale, a dicot, is an annual herb of the Chenopodiacae family that is native and endemic to California. It is ranked by the CNPS as 1.B.2. San Joaquin spearscale typically occurs in alkaline soils of chenopod scrub, meadows and seeps, playas and valley and foothill grassland. San Joaquin spearscale occurs along the western side of the Great Valley from Glenn County to Merced County and in the small valleys of the inner Coast Ranges, including the Livermore Valley. It occurs in the broad flood basins of the valley floor and on alluvial fans associated with the major streams draining from the inner Coast Range foothills. It is generally found at low elevations but has been collected up to 1,055 feet. It is an annual herb between 1 and 3 feet tall, blooming from April to October. According to the ECCCHCP/NCCP, "a species distribution model was developed that had the same assumptions as the model developed for brittlescale (all alkali grasslands and alkali wetlands on soils of the Pescadero or Solano soil series). Many occurrences, however, fell outside of the modeled habitat. Comparison with detailed mapping of San Joaquin spearscale populations in the Los Vaqueros Watershed (Jones & Stokes Associates 1989) showed that this species is not restricted to soils of the Solano and Pescadero soil series. Other soil series on which the species was found were too widespread to provide a useful prediction of the species' distribution in the inventory area. Therefore, the original species model was discarded." No alkaline soils are present on the site, and San Joaquin spearscale was not detected during the rare plant survey.

Showy madia (*Madia radiata)*: Showy madia, a dicot of the Asteraceae family, is an annual herb native to California, mostly from the Central Coast Ranges and adjacent edges of the San Francisco Bay Area and Central Valley. It is ranked by the CNPS as 1.B.1. It grows upright 10 to 90 cm. tall, the stem often branching and coated in bulbous resin glands. The bristly, glandular leaves are up to 10 cm. long, often wider at the top of the plant than below. The inflorescence produces flower heads lined with hairy, gland-studded phyllaries. The head has golden yellow ray florets up to almost 2 cm, long and a center filled with many disc florets. The CNPS on-line *Inventory of Rare and Endangered Plants* (2020) describes showy madia as blooming from March through May and occurring in cismontane woodland and valley and foothill grassland habitats at elevations between 82 and 2,953 feet. The Inventory also describes this species as extirpated in Contra Costa County. The site falls within the known range of the species; the ECCCHCP/NCCP does not contain a model predicting where this species may occur within the plan area. While the annual grassland in the site may provide potentially suitable habitat for showy madia, this species was not detected during the rare plant survey.

IV. SPECIES-SPECIFIC AVOIDANCE AND MINIMIZATION REQUIREMENTS

Please complete and/or provide the following attachments:

1) Species-Specific Avoidance and Minimization for Selected Covered Wildlife
Complete the following table and check the applicable box for covered species determined by the planning surveys.

Table 3. Summary of Applicable Preconstruction Surveys, Avoidance and Minimization, and Construction Monitoring Requirements[11]

Species	Preconstruction Survey Requirements	Avoidance and Minimization Requirements	Construction Monitoring Required	Info in HCP
☒ San Joaquin kit fox	• On project footprint and 250-ft radius, map all dens (>5 in. diameter) and determine status • Provide written survey results to USFWS within 5 working days after surveying	• Monitor dens • Destroy unoccupied dens • Discourage use of occupied (non-natal) dens	• Establish exclusion zones (>50 ft for potential dens, and >100 ft for known dens) • Notify USFWS of occupied natal dens	pp. 6-37 to 6-38
☒ Western burrowing owl	• On project footprint and 500-ft radius, identify and map all owls and burrows, and determine status • Document use of habitat (e.g. breeding, foraging)	• Avoid occupied nests during breeding season (Feb-Sep) • Avoid occupied burrows during nonbreeding season (Sep – Feb) • Install one-way doors in occupied burrow (if avoidance not possible) • Monitor burrows with doors installed	• Establish buffer zones (250 ft around nests) • Establish buffer zones (160 ft around burrows)	pp. 6-39 to 6-41
☐ Giant garter snake	• Delineate aquatic habitat up to 200 ft from water's edge on each side • Document any occurrences	• Limit construction to Oct-May • Dewater habitat April 15 – Sep 30 prior to construction • Minimize clearing for construction	• Delineate 200 ft buffer around potential habitat near construction • Provide field report on monitoring efforts • Stop construction activities if snake is encountered; allow snake to passively relocate • Remove temporary fill or debris from construction site • Mandatory training for construction personnel	pp. 6-43 to 6-45
☐ California tiger salamander	• Provide written notification to USFWS and CDFW regarding timing of construction and likelihood of occurrence on site	• Allow agency staff to translocate species, if requested	• None	p. 6-45
☐ California red-legged frog	• Provide written notification to USFWS and CDFW regarding timing of construction and likelihood of occurrence on site	• Allow agency staff to translocate species, if requested	• None	p. 6-46
☐ Covered shrimp	• Establish presence/absence • Document and evaluate use of all habitat features (e.g. vernal pools, rock outcrops)	• Establish buffer near construction activities • Prohibit incompatible activities	• Establish buffer around outer edge of all hydric vegetation associated with habitat (50 ft or immediate watershed, whichever is larger) • Mandatory training for construction personnel	pp. 6-46 to 6-48
☐ Townsend's big-eared bat	• Establish presence/absence • Determine if potential sites were recently occupied (guano)	• Seal hibernacula before Nov • Seal nursery sites before April • Delay construction near occupied sites until hibernation or nursery seasons are over	• None	pp. 6-36 to 6-37
☐ Swainson's hawk	• Determine whether potential nests are occupied	• No construction within 1,000 ft of occupied nests within breeding season (March 15 - Sep 15) • If necessary, remove active nest tree after nesting season to prevent occupancy in second year.	• Establish 1,000 ft buffer around active nest and monitor compliance (no activity within established buffer)	pp. 6-41 to 6-43
☒ Golden Eagle	• Establish presence/absence of nesting eagles	• No construction within ½ mile near active nests (most activity late Jan – Aug)	• Establish ½ mile buffer around active nest and monitor compliance with buffer	pp. 6-38 to 6-39

[11] The requirements in this table are not comprehensive; they are detailed in the next section on the following page.

2) Required Preconstruction Surveys, Avoidance and Minimization, and Construction Monitoring

All preconstruction surveys shall be conducted in accordance with the requirements set forth in Section 6.4.3, Species-Level Measures, and Table 6-1 of the ECCC HCP/NCCP. Detailed descriptions of preconstruction surveys, avoidance and minimization, and construction monitoring applicable to each of the wildlife species in Table 3 are located below. Please remove the species-specific measures that do not apply to your project (highlight entire section and delete).

SAN JOAQUIN KIT FOX

Preconstruction Surveys

Prior to any ground disturbance related to covered activities, a USFWS/CDFW– approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys will establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by kit foxes in accordance with USFWS survey guidelines (U.S. Fish and Wildlife Service 1999).

Preconstruction surveys will be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens will be determined and mapped. Written results of preconstruction surveys will be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the measures described below will be implemented.

Avoidance and Minimization Requirements

- If a San Joaquin kit fox den is discovered in the proposed development footprint, the den will be monitored for 3 days by a USFWS/CDFW– approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.
- Unoccupied dens should be destroyed immediately to prevent subsequent use.
- If a natal or pupping den is found, USFWS and CDFW will be notified immediately. The den will not be destroyed until the pups and adults have vacated and then only after further consultation with USFWS and CDFW.
- If kit fox activity is observed at the den during the initial monitoring period, the den will be monitored for an additional 5 consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied it may be excavated under the direction of the biologist. Alternatively, if the animal is still present after 5 or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgment of a biologist, it is temporarily vacant (i.e., during the animal's normal foraging activities).

Construction Monitoring

If dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances will be demarcated. The configuration of exclusion zones should be circular, with a radius measured outward from the den entrance(s). No covered activities will occur within the exclusion zones. Exclusion zone radii for potential dens will be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by kit fox.

WESTERN BURROWING OWL

Preconstruction Surveys

Prior to any ground disturbance related to covered activities, a USFWS/CDFW- approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The surveys will establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).

On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership will not be surveyed. Surveys should take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls will be identified and mapped. Surveys will take place no more than 30 days prior to construction. During the breeding season (February 1– August 31), surveys will document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1–January 31), surveys will document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results will be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization and Construction Monitoring

This measure incorporates avoidance and minimization guidelines from CDFW's *Staff Report on Burrowing Owl Mitigation* (California Department of Fish and Game 1995).

If burrowing owls are found during the breeding season (February 1 – August 31), the project proponent will avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance will include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 – January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance will include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur will be established around each occupied burrow (nest site). Buffer zones of 160 feet will be established around each burrow being used during the nonbreeding season. The buffers will be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation will be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

GOLDEN EAGLE

Preconstruction Survey

Prior to implementation of covered activities, a qualified biologist will conduct a preconstruction survey to establish whether nests of golden eagles are occupied (see Section 6.3.1, *Planning Surveys*). If nests are occupied, minimization requirements and construction monitoring will be required.

Avoidance and Minimization

Covered activities will be prohibited within 0.5 mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense

vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity will coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction Monitoring

Construction monitoring will focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the ULL, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring will ensure that direct effects to golden eagles are minimized.

3) Construction Monitoring Plan

Before implementing a covered activity, the applicant will develop and submit a construction monitoring plan to the planning department of the local land use jurisdiction and the East Contra Costa County Habitat Conservancy for review and approval. Elements of a brief construction monitoring plan will include the following:

- Results of planning and preconstruction surveys.[12]
- Description of avoidance and minimization measures to be implemented, including a description of project-specific refinements to the measures or additional measures not included in the HCP/NCCP.
- Description of monitoring activities, including monitoring frequency and duration, and specific activities to be monitored.
- Description of the onsite authority of the construction monitor to modify implementation of the activity.

☒ Check box to acknowledge this requirement.

V. SPECIFIC CONDITIONS ON COVERED ACTIVITIES

1) Check off the HCP conservation measures that apply to the project.

APPLIES TO ALL PROJECTS

☒ **Conservation Measure 1.11. Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Migratory Birds.** This conservation measure applies to all projects. All projects will avoid all impacts on extremely rare plants and fully protected species listed in Table 6-5 of the ECCC HCP/NCCP. See HCP pp. 6-23 to 6-25, and Table 6-5.

APPLIES TO PROJECTS THAT IMPACT COVERED PLANT SPECIES

☐ **Conservation Measure 3.10. Plant Salvage when Impacts are Unavoidable.** This condition applies to projects that cannot avoid impacts on covered plants and help protect covered plants by prescribing salvage whenever avoidance of impacts is not feasible. Project proponents wishing to remove populations of covered plants must notify the Conservancy of their construction schedule to allow the Conservancy the option of salvaging the populations. See HCP pp. 6-48 to 6-50.

APPLIES TO PROJECTS THAT INCLUDE ARE ADJACENT TO STREAMS, PONDS, OR WETLANDS

☒ **Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization.** All projects will implement measures described in the HCP to avoid and minimize impacts on wetlands, ponds, streams, and riparian woodland/scrub. See HCP pp. 6-33 to 6-35.

APPLIES TO NEW DEVELOPMENT PROJECTS

☒ **Conservation Measure 1.10. Maintain Hydrologic Conditions and Minimize Erosion.** All new development must avoid or minimize direct and indirect impacts on local hydrological conditions and erosion by incorporating the applicable Provision C.3 Amendments of the Contra Costa County Clean Water Program's (CCCCWP's) amended NPDES Permit (order no. R2-2003-0022; permit no. CAS002912). The overall goal of this measure is to ensure that new development covered under the HCP has no or minimal adverse effects on downstream fisheries to avoid take of fish listed under ESA or CESA. See HCP pp. 6-21 to 6-22.

APPLIES TO NEW DEVELOPMENT PROJECTS THAT INCLUDE OR ARE ADJACENT TO STREAMS, PONDS, OR WETLANDS

[12] If the preconstruction surveys do not trigger construction monitoring, results of preconstruction surveys should still be submitted to the local jurisdiction and the East Contra Costa County Habitat Conservancy.

☒ **Conservation Measure 1.7. Establish Stream Setbacks.** A stream setback will be applied to all development projects covered by the HCP according to the stream types listed in Table 6-2 of the HCP. See HCP pp. 6-15 to 6-18 and Table 6-2.

APPLIES TO NEW DEVELOPMENT PROJECTS ADJACENT TO EXISTING PUBLIC OPEN SPACE, HCP PRESERVES, OR LIKELY HCP ACQUISITION SITES

☐ **Conservation Measure 1.6. Minimize Development Footprint Adjacent to Open Space.** Project applicants are encouraged to minimize their development footprint and set aside portions of their land to contribute to the HCP Preserve System. Land set aside that contributes to the HCP biological goals and objectives may be credited against development fees. See HCP pages 6-14 to 6-15.

☐ **Conservation Measure 1.8. Establish Fuel Management Buffer to Protect Preserves and Property.** Buffer zones will provide a buffer between development and wildlands that allows adequate fuel management to minimize the risk of wildlife damage to property or to the preserve. The minimum buffer zone for new development is 100 feet. See HCP pages 6-18 to 6-19.

☐ **Conservation Measure 1.9. Incorporate Urban-Wildlife Interface Design Elements.** These projects will incorporate design elements at the urban-wildlife interface to minimize the indirect impacts of development on the adjacent preserve. See HCP pp. 6-20 to 6-21.

APPLIES TO ROAD MAINTENANCE PROJECTS OUTSIDE THE UDA

☐ **Conservation Measure 1.12. Implement Best Management Practices for Rural Road Maintenance.** Road maintenance activities have the potential to affect covered species by introducing sediment and other pollutants into downstream waterways, spreading invasive weeds, and disturbing breeding wildlife. In order to avoid and minimize these impacts, BMPs described in the HCP will be used where appropriate and feasible. See HCP pp. 6-25 to 6-26.

APPLIES TO NEW ROADS OR ROAD IMPROVEMENTS OUTSIDE THE UDA

☐ **Conservation Measure 1.14. Design Requirements for Covered Roads Outside the Urban Development Area (UDA).** New roads or road improvements outside the UDA have impacts on many covered species far beyond the direct impacts of their project footprints. To minimize the impacts of new, expanded, and improved roads in agricultural and natural areas of the inventory area, road and bridge construction projects will adopt siting, design, and construction requirements described in the HCP and listed in Table 6-6. See HCP pp. 6-27 to 6-33 and Table 6-6.

APPLIES TO FLOOD CONTROL MAINTENANCE ACTIVITIES

☐ **Conservation Measure 1.13. Implement Best Management Practices for Flood Control Facility Maintenance.** Flood control maintenance activities have the potential to affect covered species by introducing sediment and other pollutants into downstream waterways and disturbing breeding wildlife. In order to avoid and minimize these impacts, BMPs described in the HCP will be used where appropriate and feasible. See HCP pp. 6-26 to 6-27.

2) For all checked conservation measures, describe how the project will comply with each measure. Attach as Attachment C: Project Compliance to HCP Conditions.

VI. MITIGATION MEASURES

1) Mitigation Fee Calculator(s)
Complete and attach the fee calculator (use permanent and/or temporary impact fee calculator as appropriate), and attach as **Attachment D: Fee Calculator(s)**.

2) Briefly describe the amount of fees to be paid and when applicant plans to submit payment.

The 8.66+/- acre site is within Fee Zone 2. Based on 2020 rates, the fees can be estimated as follows:

8.28 acres of permanent impacts at a cost of $34,279.99 per acre = $283,838.32

0.38 acres of urban/previously developed land a cost of $0.00 per acre = $0.00

Total = $283,838.32

Construction is expected to commence in 2021 and continue through 2022. The fees will be paid prior to the start of construction at the current fee in place at that time.

ATTACHMENT A: PROJECT DESCRIPTION

Diablo Meadows

Project Description
July 2020

The 8.66+/- acre project site is located along the west side of Mitchell Canyon Road in Clayton, Contra Costa County, California. The site is within Section 14, in Township 1 North, Range 1 West of the USGS 7.5-minute Clayton topographic quadrangle (Figure 1).

DeNova Homes, Inc. proposes the development of 18 single-family residential units in the site, each with a home and ancillary services (Figure 2c). Access to the site will be from Mitchell Canyon Road.

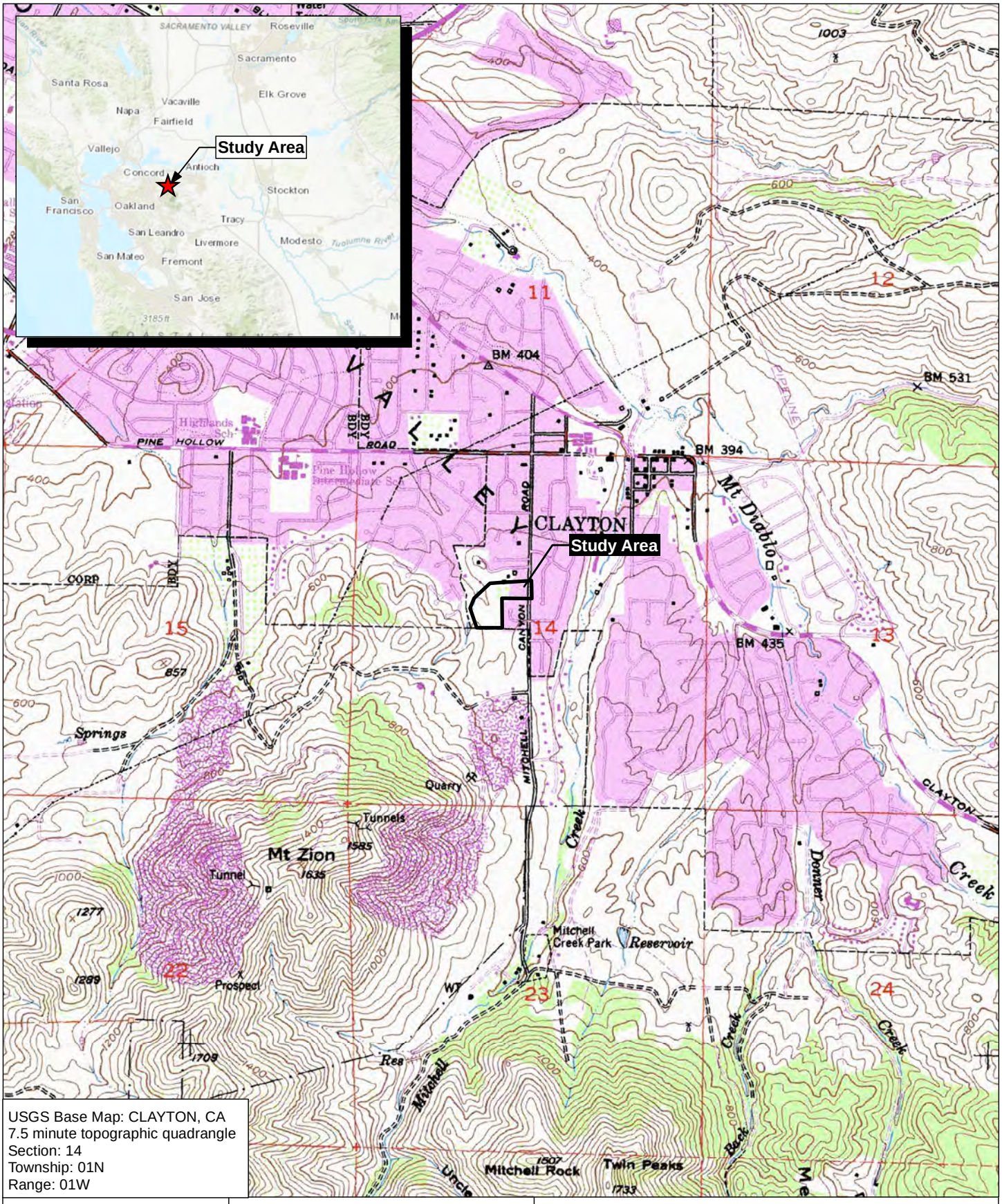
The proposed project will connect to existing City infrastructure to provide sewer and water to the site. Storm water from the east part of the site will be detained in a water quality treatment basin in the northeast part of the prior to its discharge into the City's storm drain system (Figure 2d). Storm water from the west part of the subdivision will be detained in a second water quality treatment basin along the north edge of site and will be discharged on the hillside adjacent to the on-site wetland swale.

The project includes approximately 4 acres of land will remain in open space, including the ephemeral creeks and adjacent 25+/-foot stream setback lands. The open space areas also contain the entire seasonal wetland swale in the site and adjacent lands extending 25 feet or more upslope of the seasonal wetland (Figure 2e)

Standard construction best management practices (BMPs) will be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs will include use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydrolmulch.

Construction is expected to begin 2021 and is expected to continue through 2022.

ATTACHMENT B: FIGURES



USGS Base Map: CLAYTON, CA
7.5 minute topographic quadrangle
Section: 14
Township: 01N
Range: 01W

Figure 1

0 1,000 2,000
Feet
1 inch = 2,000 feet

N
W E
S

Map Date: 07/28/2020

Site Map/USGS

Diablo Meadows

City of Clayton, Contra Costa County, CA

Moore Biological Consultants

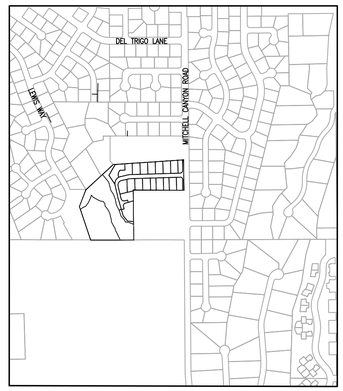
C:\Users\owner\Documents\EEC_INC\Projects\Moore Biological\Diablo Canyon\MXD\diablo_canyon_eccp_figure_1.mxd

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

NOTES AND SECTIONS
SCALE: AS SHOWN APRIL, 2020



SITE PLAN
SCALE: 1" = 60'



VICINITY MAP
SCALE: 1"=500'

BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

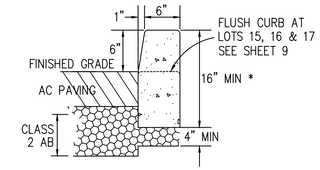
TITLE REPORT:
FIRST AMERICAN TITLE COMPANY, ORDER NO. 0131-623819ALA
DATED: DECEMBER 13, 2019 AMENDED: JANUARY 27, 2020

LEGEND

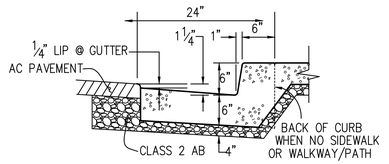
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		CURB AND GUTTER (TYPE AS NOTED)
		CENTERLINE
		UTILITY LINE (TYPE & SIZE AS NOTED)
		MANHOLE
		STORM DRAIN PIPE
		STORM DRAIN INLET
		WATER MAIN
		FIRE HYDRANT
		BLOW OFF
		ELECTROLIER
777.0	TC 777.70	CONTOURS SPOT ELEVATIONS

ABBREVIATIONS:

AB	AGGREGATE BASE	JT	JOINT TRENCH
AC	ASPHALT CONCRETE	LP	LOW POINT
CL	CENTER LINE	MH	MANHOLE
CB	CATCH BASIN	PL	PROPERTY LINE
CO	CLEAN OUT	PUE	PUBLIC UTILITY EASEMENT
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
EX	EXISTING	R/W	RIGHT OF WAY
FC	FACE OF CURB	SD	STORM DRAIN
FF	FINISHED FLOOR	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSCO	SANITARY SEWER CLEANOUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	TC	TOP OF CURB
GR	GRATE ELEVATION	TFC	TOP OF FLUSH CURB
HP	HIGH POINT	TYP	TYPICAL
		W	WATER LINE



6" VERTICAL CURB & FLUSH CURB
NOT TO SCALE



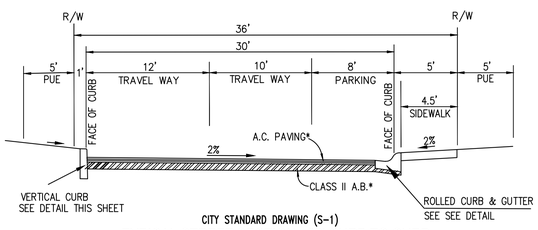
STANDARD C1-1 CURB, GUTTER & WALK
SEE CITY STANDARD PLAN C1-1 FOR DETAILS
NOT TO SCALE

GENERAL NOTES

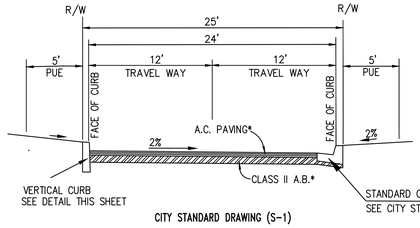
1. OWNER: THE FRED CLAYTON TRUST
   DEVELOPER: DENOVA HOMES, 1500 WILLOW PASS COURT, CONCORD, CA 94520, CONTACT: TRENT SANSON
   CIVIL ENGINEER : MERIDIAN ASSOCIATES, INC., 1300A WILLOW PASS COURT, CONCORD, CA. 94520, CONTACT: HOMAYUN KARIM
   SOILS ENGINEER : STEVENS, FERRONE & BAILEY, 1600 WILLOW PASS COURT, CONCORD, CA 94520, (PROJECT NO. 155-90 DATED: FEBRUARY 28, 2020), CONTACT: KEN FERRONE
2. ASSESSOR'S PARCEL NUMBERS : 121-090-011-2 AND 121-090-016-1
3. EXISTING LAND USE : VACANT
4. PROPOSED LAND USE : SINGLE FAMILY RESIDENTIAL
5. SITE AREA : GROSS AREA FOR ALL PARCELS: 8.68 ACRES±, NET ACREAGE INCLUDED IN PUD: 4.61 ACRES±
6. NUMBER OF LOTS : 18 RESIDENTIAL LOTS & 5 PARCELS
7. GENERAL PLAN : LOW DENSITY RESIDENTIAL (3.1 TO 5.0 UNITS/AC)
8. EXISTING ZONING : R-15
   PROPOSED ZONING: PUD
9. DENSITY (ALLOWED): 3.1 – 5.0 UNITS/AC
   DENSITY PROPOSED: NET DENSITY IN PUD: 3.9 UNITS/ACRE
10. UTILITY PROVIDERS
    WATER : CONTRA COSTA WATER DISTRICT (CCWD)
    GAS & ELECTRIC : PACIFIC GAS & ELECTRIC
    SEWER : CITY OF CONCORD
    TELEPHONE : ATT
    CABLE: COMCAST CABLE
    ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND. ALL STORM DRAINS, SANITARY SEWERS AND WATER MAINS SHALL ADHERE TO THE MINIMUM SIZES SLOPES, AND SPECIFICATIONS OF THE GOVERNING AGENCY'S STANDARDS.
11. TOPOGRAPHY: EXISTING TOPOGRAPHY PROVIDED BY VERTICAL MAPPING RESOURCES AND A FIELD SURVEY BY MERIDIAN ASSOCIATES, INC. DATED AUGUST 8, 2019. CONTOUR INTERVAL IS 1 FOOT.
12. BOUNDARY: BOUNDARY AS SHOWN IS BASED ON RECORD INFORMATION ONLY. FINAL BOUNDARY SHALL BE BASED ON A FIELD SURVEY.
13. STREETS: ALL PROPOSED NEW STREETS ARE PUBLIC
14. FLOOD ZONE: THE SITE IS DESIGNATED AS ZONE X (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FEMA FIRM MAP PANEL 442 OF 725 (06001C0442G) DATED AUGUST 3, 2009.
15. GRADING: GRADES SHOWN HEREON ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.
16. DIMENSIONS: HOUSE FOOTPRINTS, LOT DIMENSIONS AND AREA(S) SHOWN HEREON ARE APPROXIMATE AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SHEET INDEX

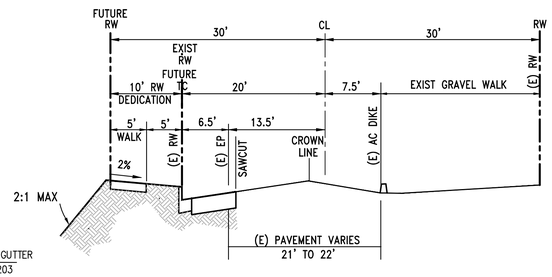
SHEET	DESCRIPTION
C-1	NOTES AND STREET SECTIONS
C-2	BOUNDARY AND EXISTING CONDITION
C-3	GRADING AND DRAINAGE PLAN
C-4	UTILITY PLAN
C-5	PRELIMINARY DEVELOPMENT PLAN
C-6	CONCEPTUAL STORM WATER MANAGEMENT PLAN



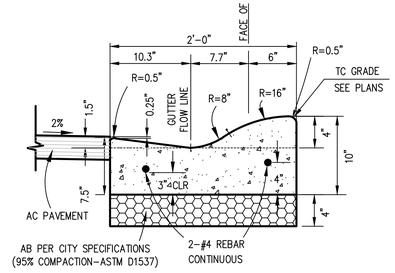
TYPICAL STREET SECTION - 30' CURB TO CURB
NOT TO SCALE



TYPICAL STREET SECTION - 24' CURB TO CURB (NO PARKING)
NOT TO SCALE



MITCHELL CANYON ROAD TYPICAL SECTION
NOT TO SCALE



ROLLED CURB AND GUTTER
NOT TO SCALE

DATE: MARCH, 2020				
SCALE: AS SHOWN				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

NOTES AND STREET SECTIONS

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

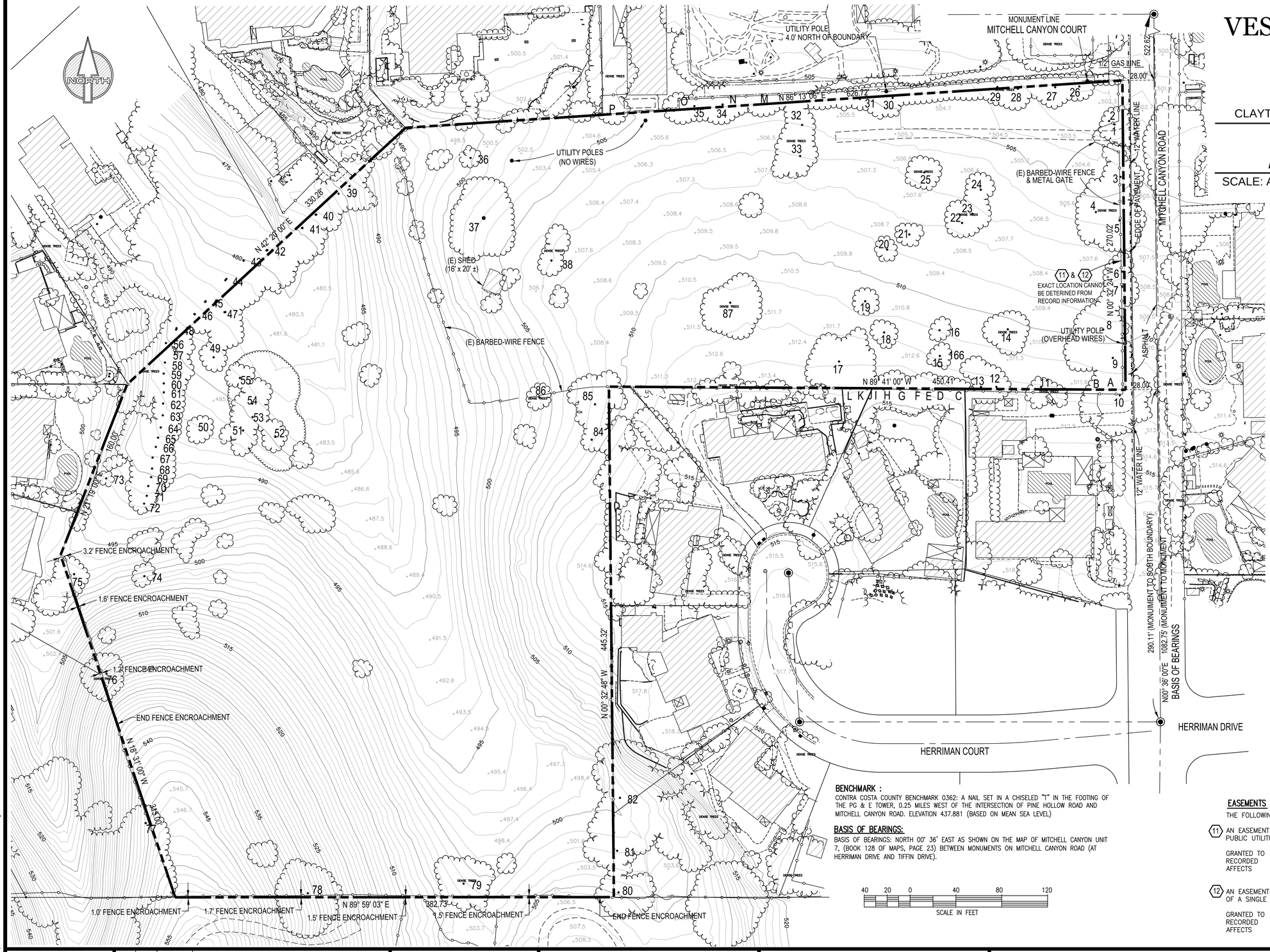
SHEET NO. C-1 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-1 TITLE.dwg Plot Date:7-17-20

FIGURE 2A. NOTES AND STREET SECTIONS

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

BOUNDARY AND EXISTING CONDITION
SCALE: AS SHOWN APRIL, 2020



BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

40 20 0 40 80 120
SCALE IN FEET

LEGEND & ABBREVIATIONS

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EASEMENT
- STORM DRAIN LINE
- SEWER LINE
- FOUND STANDARD CITY STREET MONUMENT
- FOUND SURVEY MONUMENT AS NOTED
- MANHOLE (TYPE AS NOTED)
- CATCH BASIN (ADJACENT TO MANHOLE TYPICAL)
- CATCH BASIN(S)
- WATER VALVE
- STREET LIGHT (PRIVATE)
- STREET LIGHT (PUBLIC)
- UTILITY BOX/VAULT (TYPE AS NOTED)
- 16 • TREE TRUNK LOCATION (SEE ARBORIST REPORT)
- ○ S. SIGN

BFP	BACKFLOW PREVENTER	JP	POWER POLE (JOINT SERVICE)
C.	CONCRETE	SD	STORM DRAIN
CB	CATCH BASIN (STORM DRAIN INLET)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	SF	SQUARE FEET
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL (PG&E)	SS	SANITARY SEWER
(E)	EXISTING	SSMH	SANITARY SEWER MANHOLE
F	FIRE (WATER) SERVICE LINE	T	TELEPHONE (COMMUNICATIONS, SBC, PG&E)
FDC	FIRE DEPARTMENT CONNECTION	W	WATER MAIN
FH	FIRE HYDRANT	WM	WATER METER
G	GAS	WV	WATER VALVE
GV	GAS VALVE		

EASEMENTS (NUMBERING AND LANGUAGE CORRESPONDS WITH THE TITLE REPORT)
THE FOLLOWING EASEMENTS AFFECT PARCEL 1:

(11) AN EASEMENT FOR CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF PUBLIC UTILITIES AND INCIDENTAL PURPOSES.
GRANTED TO : PACIFIC TELEPHONE AND TELEGRAPH COMPANY
RECORDED : SEPTEMBER 16, 1914 IN BOOK 227 OF DEEDS, PAGE 283
AFFECTS : THE NORTHWEST 1/4 OF SECTION 14 (DESCRIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

(12) AN EASEMENT FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF A SINGLE LINE OF POLES, TELEPHONE AND TELEGRAPH LINES AND INCIDENTAL PURPOSES.
GRANTED TO : VALLEY PIPE LINE COMPANY, A CALFORNIA CORPORATION
RECORDED : MAY 20, 1915 IN BOOK 241 OF DEEDS, PAGE 331
AFFECTS : A PORTION OF THE NORTHWEST 1/4 OF SECTION 14 (DESCIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN REDNICK No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
BOUNDARY AND EXISTING CONDITION
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-2 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-2 BOUNDARY AND EXIST COND.dwg Plot Date:7-17-20

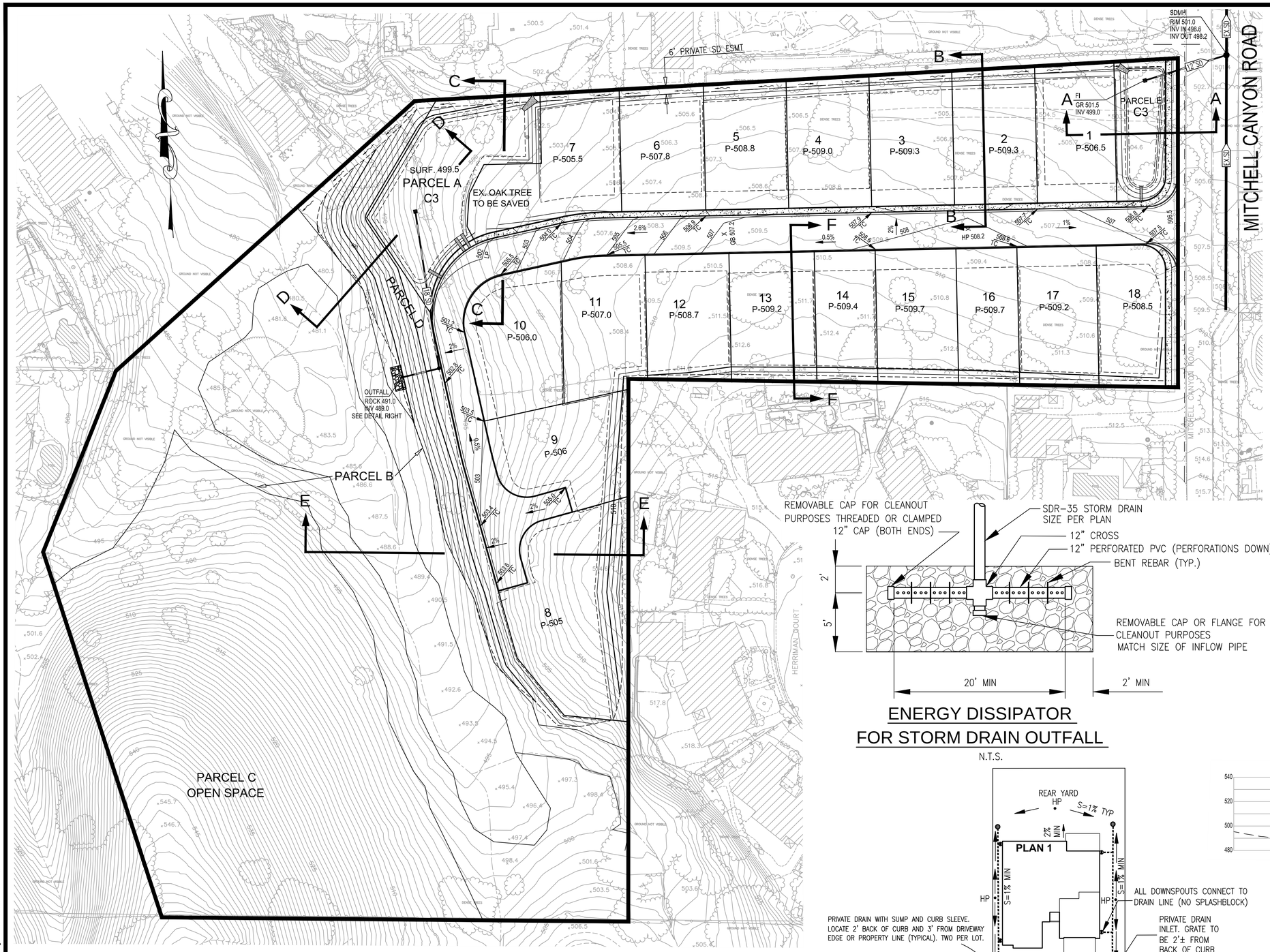
SITE PLAN

FIGURE 2B. BOUNDARY AND EXISTING CONDITION

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY GRADING AND DRAINAGE PLAN

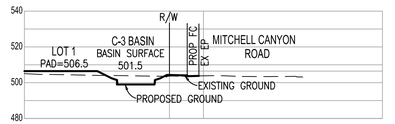
SCALE: AS SHOWN APRIL, 2020



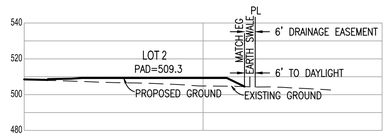
GRADING & DRAINAGE PLAN
SCALE: 1" = 40' HORIZONTAL & VERTICAL

ENERGY DISSIPATOR
FOR STORM DRAIN OUTFALL

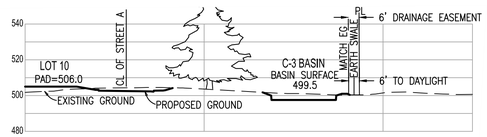
TYPICAL LOT DRAINAGE



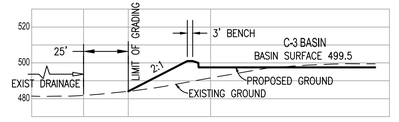
SECTION A-A



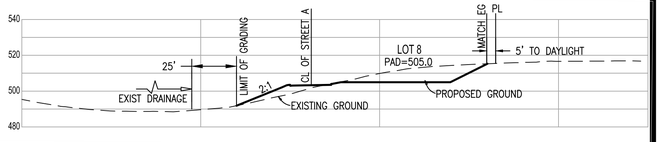
SECTION B-B



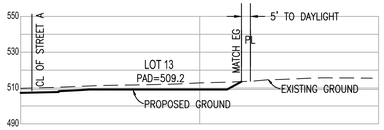
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY GRADING & DRAINAGE PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

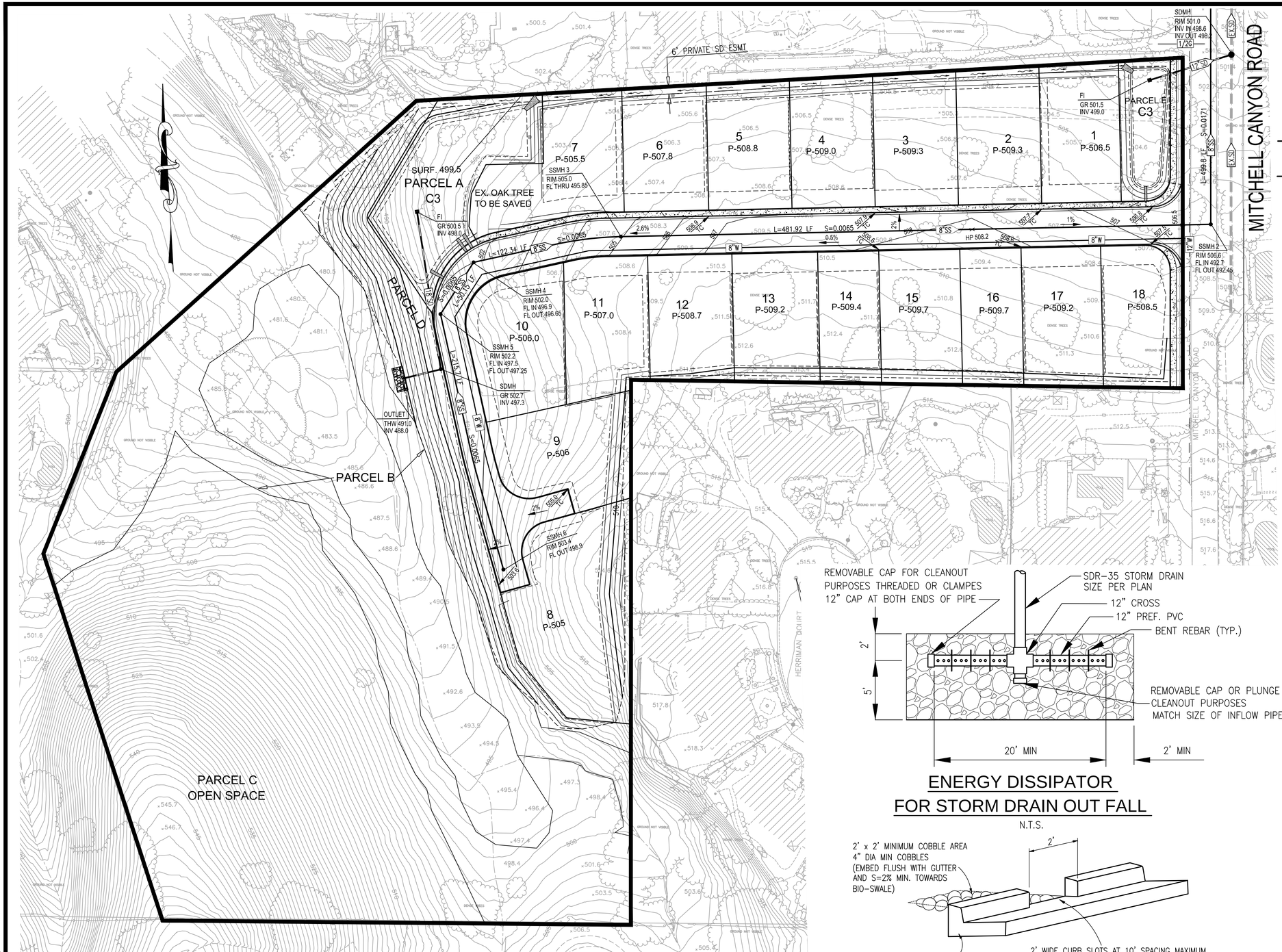
SHEET NO. **C-3** OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-3 GRADING.dwg Plot Date:7-17-20

FIGURE 2C. PRELIMINARY GRADING AND DRAINAGE PLAN

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY UTILITY PLAN
SCALE: AS SHOWN APRIL, 2020

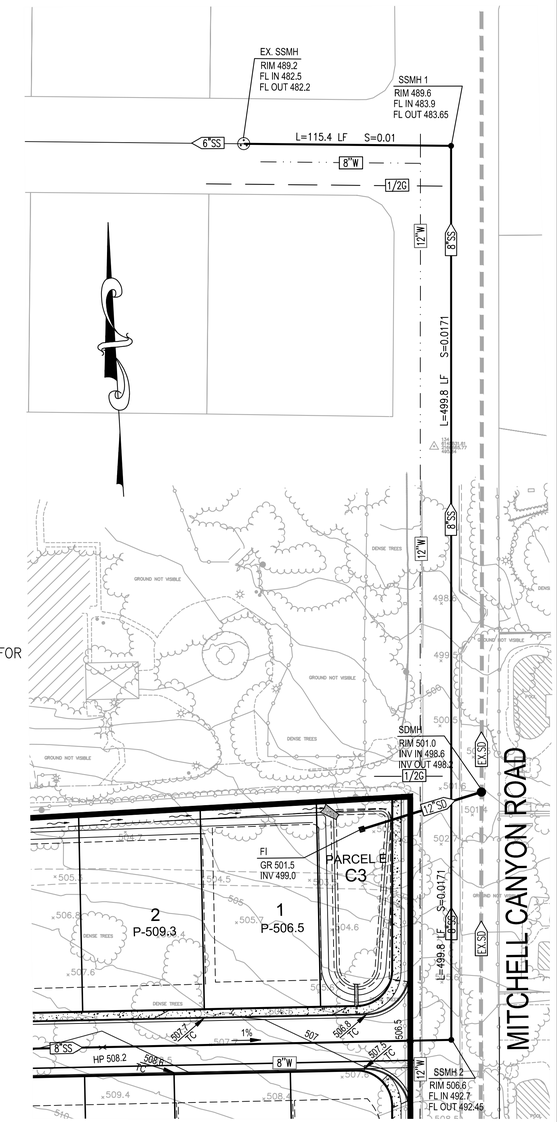


40 20 0 40 80 120
SCALE IN FEET

PRELIMINARY UTILITY PLAN
SCALE: 1" = 40'

ENERGY DISSIPATOR
FOR STORM DRAIN OUT FALL
N.T.S.

TYPICAL CURB SLOT ADJACENT TO BIO-SWALES
NOT TO SCALE



DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
PRELIMINARY UTILITY PLAN
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. **C-4** OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-4 UTILITY.dwg Plot Date:7-17-20

FIGURE 2D. PRELIMINARY UTILITITY PLAN

VESTING TENTATIVE MAP

FOR

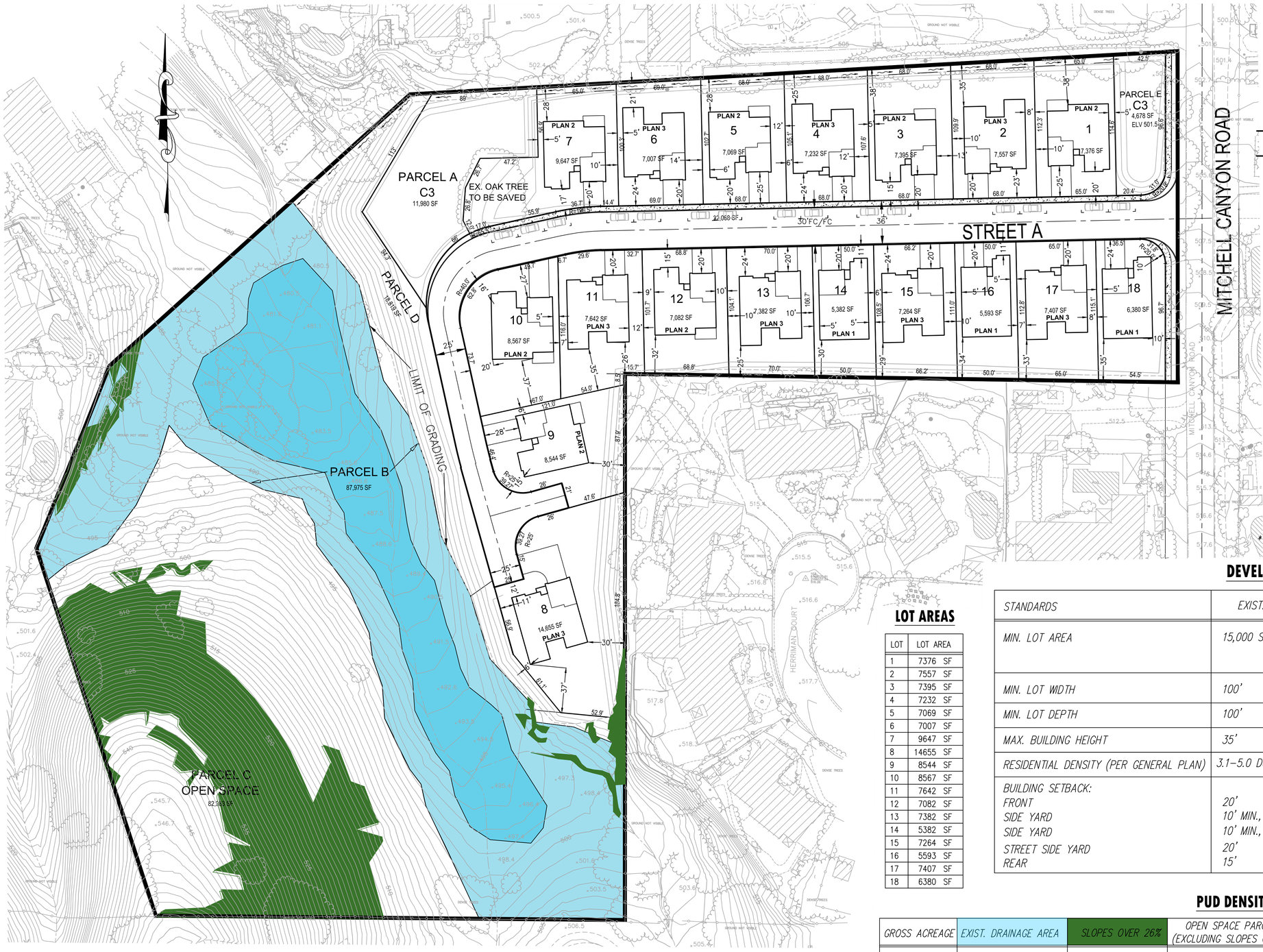
SUBDIVISION 9538

DIABLO MEADOWS

CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY DEVELOPMENT PLAN

SCALE: AS SHOWN APRIL, 2020



PRELIMINARY DEVELOPMENT PLAN

SCALE: 1" = 40'

SUMMARY OF PRODUCT TYPE & SETBACKS

PLAN TYPE	NUMBER OF UNITS	MINIMUM SETBACKS			
		FRONT		SIDES	REAR
		LIVING AREA	GARAGE		
1	3	10'	20'	5'/5'	15'
2	7	10'	20'	5'/10'	15'
3	8	10'	20'	5'/10'	15'
TOTAL	18				

PARKING SUMMARY

PARKING TYPE	NUMBER OF SPACES
*ON STREET	15
DRIVEWAY	36
GARAGE	36
TOTAL	87

* PARALLEL PARKING DIMENSION IS 8'x22'

PARCEL AREAS

PARCEL	AREA	
A	0.28 AC	C3 BASIN
B	2.02 AC	EXIST. DRAINAGE AREA
C	1.91 AC	OPEN SPACE
D	0.43 AC	OPEN SPACE
E	0.11 AC	C3 BASIN
LOTS 1–18	3.19 AC	SINGLE FAMILY
STREET R/W	0.74 AC	
TOTAL	8.68 AC	

LOT AREAS

LOT	LOT AREA
1	7376 SF
2	7557 SF
3	7395 SF
4	7232 SF
5	7069 SF
6	7007 SF
7	9647 SF
8	14655 SF
9	8544 SF
10	8567 SF
11	7642 SF
12	7082 SF
13	7382 SF
14	5382 SF
15	7264 SF
16	5593 SF
17	7407 SF
18	6380 SF

DEVELOPMENT STANDARDS

STANDARDS	EXIST. R–15	PROPOSED (REZONE)
MIN. LOT AREA	15,000 SQ. FT.	5,000 SQ. FT (LOTS 14, 16 & 18) 7,000 SQ. FT (LOTS 1–13, 15 & 17 7,741 SQ. FT. (AVG)
MIN. LOT WIDTH	100'	50' (LOTS 14, 16 & 18 ONLY) TYPICAL LOT WIDTH APPROX. 65'
MIN. LOT DEPTH	100'	90' (TYPICAL LOT DEPTH APPROX. 100')
MAX. BUILDING HEIGHT	35'	35'
RESIDENTIAL DENSITY (PER GENERAL PLAN)	3.1–5.0 DU/NET ACRE (MD)	3.90 DU/NET ACRE
BUILDING SETBACK: FRONT SIDE YARD SIDE YARD STREET SIDE YARD REAR	 20' 10' MIN., 25' AGGREGATE 10' MIN., 25' AGGREGATE 20' 15'	 20' GAR / 10' LIVING AREA (VARIES BETWEEN 11'–24') 5' MIN., 10' AGGREGATE (LOTS 14, 16 & 18) 5' MIN., 15' AGGREGATE (LOTS 1–13, 15 & 17) 10' 15' (TYPICAL REAR SETBACK/YARD IS GREATER RHAN 20')

PUD DENSITY TABLE

GROSS ACREAGE	EXIST. DRAINAGE AREA	SLOPES OVER 26%	OPEN SPACE PARCEL C (EXCLUDING SLOPES OVER 26%)	*NET ACREAGE	NO. OF UNITS	DU/GROSS ACRE	DU/*NET ACRE
8.68± AC	2.02± AC	0.87± AC	1.17± AC	*4.62± AC	18	DU/AC	3.9 DU/AC

* NET ACREAGE INCLUDES STREETS, OPEN SPACE PARCEL D (AREAS LESS THAN 26% SLOPE), AND C–3 BASINS AREAS PER MUNI CODE 17.22

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY DEVELOPMENT PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-5 OF 6 SHEETS

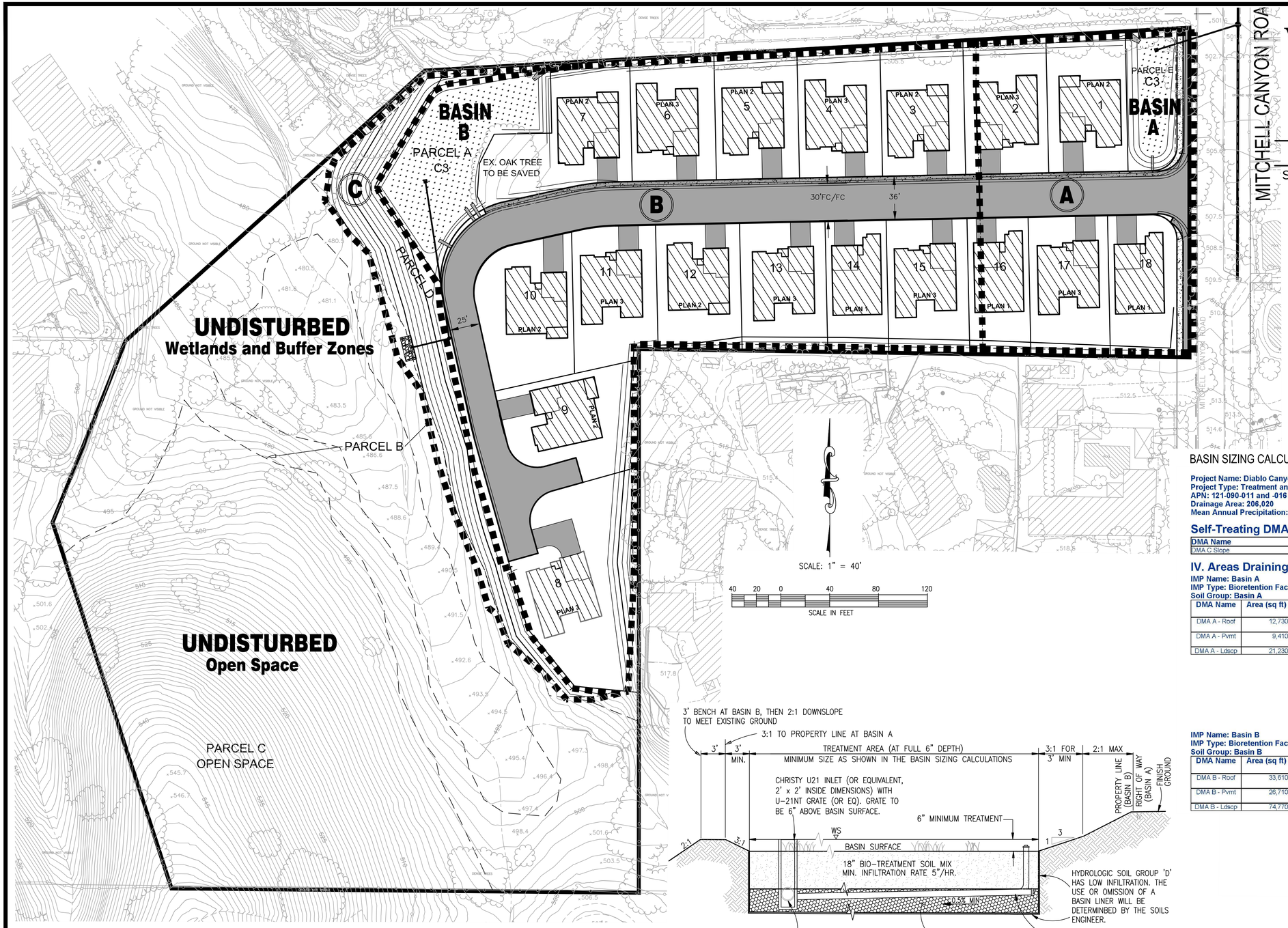
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-5 DEVELOPMENT PLAN.dwg Plot Date:7-17-20

FIGURE 2E. PRELIMINARY DEVELOPMENT PLAN

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

STORMWATER CONTROL PLAN
SCALE: AS SHOWN APRIL, 2020



PLAN VIEW
SCALE: 1" = 40'

BIORETENTION BASIN - TYPICAL SECTION
NOT TO SCALE

LEGEND

- A — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PAVEMENT
- ROOFTOPS (INCLUDES WALKS AND PATIOS)
- LANDSCAPE (NO HATCH)
- RETENTION AREA (BASIN)

BASIN SIZING CALCULATIONS

Project Name: Diablo Canyon
Project Type: Treatment and Flow Control
APN: 121-090-011 and -016
Drainage Area: 206,020
Mean Annual Precipitation: 18.7

Self-Treating DMAs

DMA Name	Area (sq ft)
DMA C Slope	17,690.0

IV. Areas Draining to IMPs

IMP Name: Basin A
IMP Type: Bioretention Facility
Soil Group: Basin A

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA A - Roof	12,730	Conventional Roof	1.00	12,730
DMA A - Pvmt	9,410	Concrete or Asphalt	1.00	9,410
DMA A - Ldscp	21,230	Landscape	0.70	14,861
			Total	37,001

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	1,972	1,980
Surface Volume	0.042	1.066	1,657	1,660
Subsurface Volume	0.055	1.066	2,169	2,180
Maximum Underdrain Flow (cfs)				0.07
Orifice Diameter (in)				1.73

IMP Name: Basin B
IMP Type: Bioretention Facility
Soil Group: Basin B

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA B - Roof	33,610	Conventional Roof	1.00	33,610
DMA B - Pvmt	26,710	Concrete or Asphalt	1.00	26,710
DMA B - Ldscp	74,770	Landscape	0.70	52,339
			Total	112,659

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	6,005	7,870
Surface Volume	0.042	1.066	5,044	5,050
Subsurface Volume	0.055	1.066	6,605	6,620
Maximum Underdrain Flow (cfs)				0.23
Orifice Diameter (in)				3.06

SWCP FIGURE A

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER — JOHN RZONCA — No. C38710 EXP: 3/31/2021 — CIVIL — STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY STORMWATER CONTROL PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-6 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-6 SWCP.dwg Plot Date:7-17-20

FIGURE 2F. PRELIMINARY STORMWATER CONTROL PLAN

Butternut Way
Lewis Way
Mitchell Canyon Ln
Kenston Dr
Mitchell Canyon Rd
Herriman Ct
Herriman Dr

Figure 3

Project Site (8.66 ac.)
Stream (0.02 ac.)
Annual Grassland (8.07 ac.)
Seasonal Wetland (0.19 ac.)
Urban (0.38 ac.)

N
W E
S

0 100 200

Field Verified Landcover Map

Diablo Meadows

City of Clayton, Contra Costa County, CA

Moore Biological Consultants

Map Date: 07/28/2020
Aerial Source: Google Earth (08/2017)

C:\Users\owner\Documents\FEC_INC\Projects\Moore Biological\Diablo Canyon\MXD\diablo canyon ecco figure 3.mxd



Annual grassland in the southwest part of the site, looking southwest; 04/03/20. The site was historically an orchard and there are remnant stumps from the orchard trees in the grasslands. This part of the site will remain in open space.



Annual grassland in the southeast part of the site, looking north; 04/03/20.

FIGURE 4a

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Annual grassland in the northeast part of the site, looking west from Mitchell Canyon Road; 04/03/20. There are trees along the edges of the site and scattered trees in the grasslands.



Mitchell Canyon Road along the east edge of the site, looking north from near the southeast corner of the site; 04/03/20.

FIGURE 4b

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Annual grassland and a valley oak in the northeast part of the site, looking west; 04/03/20. The relatively large trees in the site could be used by a variety of birds for nesting. No active raptor nests were observed during the April 2020 surveys.



One of several ground squirrel burrows in the site; 04/03/20. The burrows were inspected for evidence of burrowing owl occupancy and none was observed.

FIGURE 4c

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Seasonal wetland in the west-central part of the site, looking northwest; 04/03/20. The approximate edges of the swale are noted with dashed lines. The seasonal wetland has directional flow and is best classified as a seasonal wetland swale.



Deep pocket in the swale a bit further north, looking north 04/03/20. This low area appears to hold water for several days or a few weeks after rain events. There is a patch of cocklebur in this low area.

FIGURE 4d

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



North end of the seasonal wetland, looking north at the fence along the edge of the site; 04/03/20. There is an incised channel in the north 20+/- feet of the wetland that is about 2 feet wide.



Ephemeral creek along the west edge of the site, looking south; 04/03/20. The creek is only 1 to 2 feet wide, yet is mapped as a "blue-line" stream on the USGS topographic map. The seasonal wetland swale is tributary to the creek north of the site.

FIGURE 4e

MOORE BIOLOGICAL **REPRESENTATIVE PHOTOGRAPHS**



Figure 5a

Moore Biological Consultants

Project Site (8.66 ac.)

Stream (0.02 ac.)

Seasonal Wetland (0.19 ac.)

Urban (0.38 ac.)

Annual Grassland (8.07 ac.); assumed habitat for San Joaquin kit fox and western burrowing owl

Tree; potential nest site for white-tailed kite and Golden eagle

N W E S

0 100 200

Map Date: 07/28/2020
Aerial Source: Google Earth (08/2017)

Planning Survey Species Habitat Map

Diablo Meadows

City of Clayton, Contra Costa County, CA

x:\Moore Biological\Diablo Canyon\MXD\diablo canyon ecco figure 5a.mxd

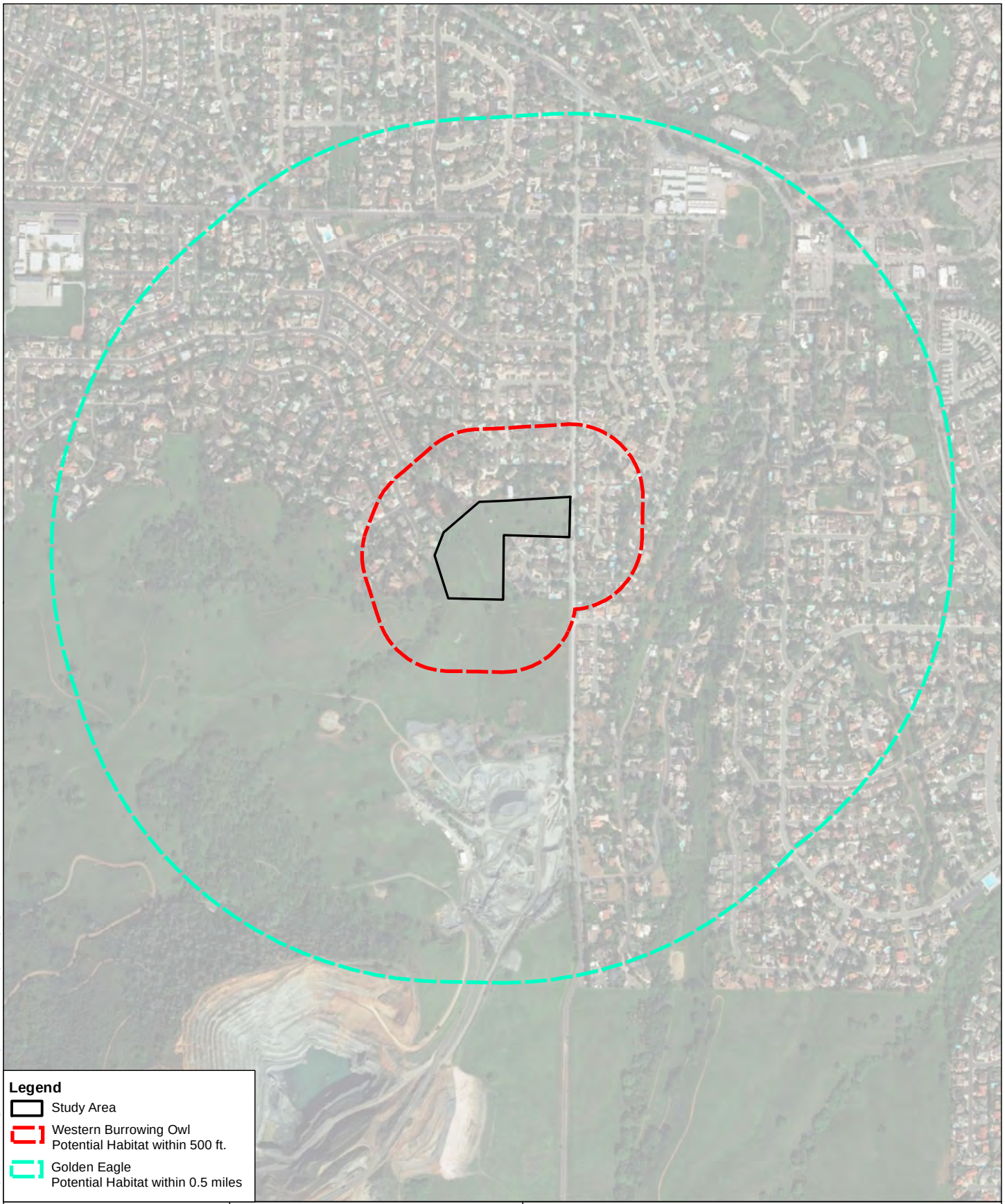


Figure 5b

Moore Biological Consultants

0 500 1,000

N W E S

Map Date: 07/28/2020
Aerial Photo: DigitalGlobe (2018)

Regional Species Habitat Map

Diablo Meadows

City of Clayton, Contra Costa County, CA

C:\Users\owner\Documents\FEC_INC\Projects\Moore Biological\Diablo_Canyon\MXD\diablo_canyon_ecccp_figure_5b.mxd

ATTACHMENT C: PROJECT COMPLIANCE TO HCP CONDITIONS

Diablo Meadows
Project Compliance to HCP Conditions
July 2020

HCP/NCCP Conservation Measure 1.11. Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Covered Migratory Birds:

The potential for special-status plants to occur within the site is considered extremely remote, as described in Section III (10).

Species-specific pre-construction surveys, and if needed, monitoring and avoidance requirements for burrowing owl, San Joaquin kit fox, and golden eagle will be conducted as described in Section IV (2). There is no suitable habitat in the site for ringtail (*Bassariscus astutus*), a "fully protected species," per California Fish and Game Code Section 4700. Similarly, there is no suitable nesting habitat in the site for peregrine falcon (*Falco peregrinus*), a "fully protected species," per California Fish and Game Code Section 3511.

White-tailed kite (*Elanus caeruleus*), another "fully protected species," per California Fish and Game Code Section 3511 could potentially nest in trees in and near the site. Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

On-site grasslands and shrubs could be used by other species of nesting birds protected by the Migratory Bird Treaty Act. If possible, vegetation removal will occur outside of the general bird nesting season (February 1 through August 31). Alternately, a qualified biologist will conduct a preconstruction survey no more than 2 weeks prior to vegetation removal. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

HCP/NCCP Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization:

Potentially jurisdictional Waters of the U.S. and wetlands in the site are being fully avoided. The two ephemeral streams on the site will not be impacted by the project. A 25-foot stream setback will be implemented along both ephemeral streams. The seasonal wetland swale will also not be impacted by the project. A 25-foot buffer will be implemented along the seasonal wetland swale.

The following measures from pages 6-33 through 6-35 will be implemented avoid and minimize impacts of covered activities on wetlands:

- The project will comply with the stream setback requirements in Conservation

Measure 1.7.

- The project will comply with the guidelines in Conservation Measure 1.10 to minimize the effects of urban development on downstream hydrology, streams, and wetlands.
- All wetlands to be avoided by covered activities will be temporarily staked in the field by a qualified biologist.
- The project will establish a buffer zone between the ephemeral streams and development as described in Conservation Measure 1.7. A 25-foot buffer will be implemented along the seasonal wetland swale.
- Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the of the ephemeral streams or the seasonal wetland swale will be trained by a qualified biologist in these avoidance and minimization measures and the permit obligations of project proponents working under the ECCCHCP. Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas.
- Trash generated during project construction will be promptly and properly removed from the site.
- No construction or maintenance vehicles will be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill.
- Appropriate erosion-control measures (e.g., fiber rolls, filter fences, vegetative buffer strips) will be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh will be of material that will not entrap reptiles and amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians.
- Fiber rolls used for erosion control will be certified as free of noxious weed seed.
- Seed mixtures applied for erosion control will not contain invasive non native species, and will be composed of native species or sterile nonnative species.
- Herbicides will not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In this case, herbicides that have been approved for use by EPA in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides may be applied to the ruderal grassland within the buffer area during the dry season to control nonnative invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.

HCP/NCCP Conservation Measure 1.10. Maintain Hydrologic Conditions and Minimize Erosion:

The project has been designed to maintain hydrologic conditions and minimize erosion. Site drainage will be conveyed to a municipal storm drain system. Standard construction best management practices (BMPs) will be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs will include use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

HCP/NCCP Conservation Measure 1.7. Establish Stream Setbacks:

A stream is defined in Chapter 3 of the ECCCHCP as "a long, narrow body of flowing water that occupies a channel with defined bed and bank and moves to lower elevations under the force of gravity".

The ephemeral streams in the site will not be impacted by the project. A 25-foot stream setback will be implemented along the ephemeral streams. A 25-foot buffer will also be implemented along the seasonal wetland swale

Stream setbacks are designed to protect existing habitat quality, to protect water quality and hydrologic processes through buffering, and allow for at least minimal restoration (page 6-16). The stream setback measure is intended to achieve several purposes as listed on pages 6-16 and 6-17 of the ECCCHCP, along a variety of stream types. Six of the seven purposes have applicability to the project:

- Maintain or improve water quality by filtering sediments and pollutants from urban runoff before they reach the stream,
- Maintain and enhance the water quality of the stream to protect native fish populations, including populations of special-status species that occur in downstream creeks,
- Maintain a more viable wildlife corridor for some species (e.g., California red-legged frog, foothill yellow-legged frog) than would be present with a narrower buffer zone, and
- Maximize the natural flood protection value of the floodplain.

ATTACHMENT D: FEE CALCULATOR

ECCC HCP/NCCP 2020 Fee Calculator Worksheet
Permanent Impacts

PROJECT APPLICANT: DeNova Homes, Inc.

PROJECT NAME: Diablo Meadows

APN(s): 121-090-016-1 and 121-090-011-2

JURISDICTION: Clayton

DATE: July 2020

DEVELOPMENT FEE		**ACREAGE PERMANENTLY IMPACTED (TABLE 1)[1]**		**2020 FEE PER ACRE (SUBJECT TO CHANGE)[2]**		
See appropriate ordinance or HCP/NCCP Figure 9-1 to determine Fee Zone	Fee Zone 1		x	$17,139.99	=	$0.00
	Fee Zone 2	8.28	x	$34,279.99	=	$283,838.32
	Fee Zone 3		x	$8,570.72	=	$0.00
				Development Fee Total	=	**$283,838.32**

WETLAND MITIGATION FEE		**ACREAGE PERMANENTLY IMPACTED (TABLE 1)[1]**		**2020 FEE PER ACRE (SUBJECT TO CHANGE)[2]**		
	Riparian woodland / scrub		x	$84,239.66	=	$0.00
	Perennial Wetland		x	$115,275.32	=	$0.00
	Seasonal Wetland		x	$249,763.19	=	$0.00
	Alkali Wetland		x	$236,462.19	=	$0.00
	Ponds		x	$125,620.54	=	$0.00
	Aquatic (open water)		x	$63,549.21	=	$0.00
	Slough / Channel		x	$143,355.21	=	$0.00
	STREAMS	**LINEAR FEET PERMANENTLY IMPACTED (TABLE 1)**		**2020 FEE PER LINEAR FT (SUBJECT TO CHANGE)[2]**		
	Streams 25 feet wide or less		x	$686.78	=	$0.00
	Streams greater than 25 feet wide		x	$1,034.52	=	$0.00
				Wetland Mitigation Fee Total	=	**$0.00**

FEE REDUCTION[3]		
	Development Fee reduction for land in lieu of fee	=	
	Development Fee reduction (up to 33%) for permanent assessments	=	
	Wetland Mitigation Fee reduction for wetland restoration/creation performed by applicant	=	
	Reduction Total	=	**$0.00**

FINAL FEE CALCULATION			
	Development Fee Total		$283,838.32
	Wetland Mitigation Fee Total	+	$0.00
	Fee Subtotal	=	**$283,838.32**
	Contribution to Recovery	+	
	TOTAL AMOUNT TO BE PAID	=	**$283,838.32**

[1] City/County planning staff will consult the land cover map in the Final HCP/NCCP and will reduce the acreage subject to the Development Fee by the acreage of the subject property that was identified in the Final HCP/NCCP as urban, turf, landfill or aqueduct land cover.

[2] Development Fees are adjusted annually according to a formula that includes both a Home Price Index (HPI) and a Consumer Price Index (CPI). The Wetland Mitigation Fees are adjusted according to a CPI. The Conservancy conducted the 2013 periodic fee audit required by the HCP/NCCP. Action by the County and participating cities is pending, which could result in adjustments to some or all fees in 2020.

[3] Fee reductions must be reviewed and approved by the Conservancy.

Template date: March 3, 2020

ATTACHMENT E: WETLAND DELINEATION



Data Disclaimer:
The delineation has been done in accordance with the 1987 Wetlands Delineation Manual, US Army Corps of Engineers and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region. The boundaries and jurisdictional status of all waters shown on this map are preliminary and subject to verification by the U.S. Army Corps of Engineers.

Aerial Source: DigtialGlobe (2019); Google Earth (06/2018)

Moore Biological Consultants

N

0 50 100

1 inch = 100 feet

Study Area (8.66 acres)

▲- 1 3-Parameter Data Point

Seasonal Wetland (SW-1) - 0.19 ac / 8,073 sf

Ephemeral Stream (ES-1) - 0.01 ac / 348 sf

(ES-2) - 0.01 ac / 244 sf

Potential Waters of the U.S. and Wetlands

Diablo Meadows

City of Clayton, Contra Costa County, CA

Map Date: 07/28/2020

Appendix C
Geotechnical Investigation

Stevens Ferrone & Bailey
Engineering Company, Inc

February 28, 2020

GEOTECHNICAL INVESTIGATION
MITCHELL CANYON DEVELOPMENT
CLAYTON, CALIFORNIA
SFB PROJECT NO. 155-90

Prepared For:

DeNova Homes
1500 Willow Pass Court
Concord, CA 94520

Prepared By:

Stevens, Ferrone & Bailey Engineering Company, Inc.



Jonathan Bailey, P.E., G.E.
Civil/Geotechnical Engineer



Kenneth C. Ferrone, P.E., G.E., C.E.G.
Civil/Geotechnical Engineer
Certified Engineering Geologist





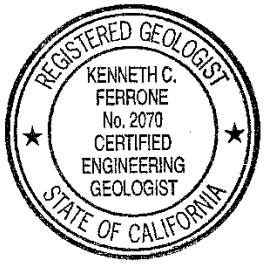


TABLE OF CONTENTS

1.0 INTRODUCTION....1

2.0 SCOPE OF WORK....2

3.0 SITE INVESTIGATION....3

3.1 Site History and Surface Description....3
3.2 Subsurface Description....4
3.3 Groundwater....4
3.4 Hydrologic Soil Group....5
3.5 Geology and Seismicity....5
3.6 Liquefaction....6

4.0 CONCLUSIONS AND RECOMMENDATIONS....7

4.1 Earthwork....9
4.1.1 Clearing and Site Preparation....9
4.1.2 Weak Soil Re-Compaction....10
4.1.3 Subgrade Preparation....10
4.1.4 Fill Material....11
4.1.5 Compaction....11
4.1.6 Engineered Slopes....11
***4.1.6.1 General*....11**
***4.1.6.2 Fill Slopes*....12**
4.1.7 Subsurface Drainage....12
4.1.8 Utility Trench Backfill....13
4.1.9 Exterior Flatwork....13
4.1.10 Construction during Wet Weather Conditions....14
4.1.11 Surface Drainage, Irrigation, and Landscaping....14
4.1.12 Storm Water Runoff Structures....15
4.1.13 Future Maintenance....16
4.1.14 Additional Recommendations....17
4.2 Foundation Support....17
4.2.1 Post-Tensioned Slabs....17
4.2.2 Retaining Walls....19
4.2.3 Seismic Design Criteria....21
4.3 Pavements....22

5.0 CONDITIONS AND LIMITATIONS....24

TABLE OF CONTENTS
(Continued)

FIGURES

1 Site Plan

APPENDICES

A Field Investigation A-1
Figure A-1, Key to Exploratory Boring Logs
Figure A-2, Rock Mass Characteristics
Exploratory Boring Logs (SFB-1 through SFB-5)
Exploratory Pit Logs (TP-1 through TP-5)

B Laboratory Investigation B-1

C Logs of Previous Borings by Others C-1

D ASFE Guidelines D-1

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed residential subdivision development to be located west of Mitchell Canyon Road (APN 121-090-011 & 121-090-016) in Clayton, California as shown on the Site Plan, Figure 1. The purpose of our investigation was to evaluate the geological and geotechnical conditions at the site and provide recommendations regarding the geotechnical engineering aspects of the project.

Based on the information indicated on the Site Plan, as well as information provided by DeNova Homes., it is our understanding that the project will consist of developing approximately 3 acres of land for a new 17-lot residential subdivision. A stormwater detention basin is also proposed. The project will be located to the east of an existing wetland and steep hillside area. Each new lot will include a single-family, detached home. Cut and fill grading is anticipated to develop flat building pad at each of the lots. Moderate grading will be needed to develop the site. Associated underground utilities and paved roadways will be constructed. The existing structures and facilities at the site will be demolished prior to new construction. Open space areas will be located to the west of the development area.

The conclusions and recommendations provided in this report are based upon the information presented above; Stevens, Ferrone & Bailey Engineering Company, Inc. (SFB) should be consulted if any changes to the project occur to assess if the changes affect the validity of this report.

2.0 SCOPE OF WORK

Our investigation of the site included the following scope of work:

- Reviewing published and unpublished geotechnical and geological literature relevant to the site;
- Reviewing a previous geotechnical investigation report by Abel R. Soares and Associates, dated July 13, 1976, including the results of two exploratory borings that extended to a maximum depth of about 6 feet;
- Performing geotechnical and geological reconnaissance of the site and surrounding area;
- Performing a supplemental subsurface exploration program, including drilling five exploratory borings to a maximum depth of about 21 feet and excavating five exploratory test pits to a maximum depth of about 6 feet;
- Performing laboratory testing of samples retrieved from the borings;
- Performing engineering analysis of the field and laboratory data; and
- Preparing this report.

The data obtained and the analyses performed were for the purpose of providing geotechnical design and construction criteria for site earthwork, underground utilities, drainage, building foundations, retaining walls, and pavements. Toxicity potential assessment of onsite materials or groundwater (including mold) and flooding evaluations were beyond our scope of work.

3.0 SITE INVESTIGATION

Reconnaissance of the site and surrounding area was performed on August 14, August 19, and August 26, 2019. Subsurface exploration was performed on August 19 and 26, 2019. Five exploratory borings were drilled using a truck-mounted drill rig equipped with 4-inch diameter, continuous flight, solid stem augers to a maximum depth of about 21 feet below existing grade. Five exploratory test pits were excavated using a CAT 430F2 backhoe to a maximum depth of about 6 feet below existing grade. Previously, two exploratory borings were drilled in 1976 by Abel R. Soares and Associates to a maximum depth of about 6 feet.

The approximate locations of all the borings and pits are shown on the Site Plan, Figure 1. Logs of our borings and pits and details regarding our field investigation are included in Appendix A. The results of our laboratory tests are discussed in Appendix B. Logs of the previous borings by others are included in Appendix C. It should be noted that changes in the surface and subsurface conditions can occur over time as a result of either natural processes or human activity and may affect the validity of the conclusions and recommendations in this report.

The exploratory pits were loosely backfilled and wheel-rolled upon completion. The pit backfill will require over-excavation and re-compaction at the time for the grading operations.

3.1 Site History and Surface Description

At the time of our investigation and as shown on Figure 1, the site was bounded by Mitchell Canyon Road on the east, undeveloped land on the south, and existing residential developments on the other sides.

The entire site was L in shape and had a plan area of about 8.6 acres with maximum dimensions of about 870 feet by 690 feet. General site surface grades sloped gently downward towards the northwest, northeast, and north with slope inclinations varying from about 4:1 (horizontal to vertical) to 6:1 at higher elevations within the southwestern half of the site to about 10:1 to 23:1 at lower elevations with the northeastern half of the site. Ephemeral drainage channels extended through the southwestern half of the site from south to north.

The site was generally vacant except for a small shed and commercial lawnmower located near an existing oak tree at the northwestern corner of the site. The site surface vegetation consisted of a moderate to heavy growth of weeds and grasses and within the drainage channels heavy growths of trees, shrubs, and grasses. Small to large diameter trees were observed throughout the site.

Based on our review of historical topographic maps and aerial photographs of the site and vicinity, it is our understanding that the site was previously occupied by an orchard.

3.2 Subsurface Description

The near-surface soil materials encountered in our borings generally consist of weak surface soils underlain by interbedded stiff to hard silty clays with sand, gravel, and rock fragments, and dense to very dense sands with clay, silt, gravel and rock fragments that extend to the maximum depth explored of about 21 feet. The near-surface soil materials encountered in our test pits generally consisted of soft to stiff clays and silts with sand and gravel and medium dense gravels with silt and sand. SFB Pits P-1 and P-3 encountered sandstone below surface soils. Bedrock encountered in the test pits was generally deeply to moderately weathered and friable to moderately strong. The two previous borings encountered similar conditions to the maximum depth explored of about 6 feet.

According to the results of laboratory testing, most of the near-surface more clayey soils have a low to medium plasticity and low to moderate expansion potential. Pit P-2, however, encountered a near-surface clay layer having high plasticity and high expansion potential. The soft to firm soils that mantle the site are weak and highly compressible; these soils typically extend to depths of about 2 feet except in the area of Pit P-3 (the northeast facing hillside in the southwest corner of the site) where weak and unstable soils extended to a depth of about 4 feet.

We anticipate soft, weak, and highly compressible soils with high water contents exist in the area of the eastern drainage channel. It has been our experience that these softer soils typically extend to depths of about 3 to 4 feet.

Detailed descriptions of the materials encountered in our exploratory borings, test pits, and borings by others are presented on the logs in Appendices A and C. Our attached boring and test pit logs and related information depict location-specific subsurface conditions encountered during our field investigation. The approximate locations of our borings and pits were determined using pacing or landmark references, and should be considered accurate only to the degree implied by the method used.

3.3 Groundwater

Groundwater was encountered in Boring SFB-3 (near the drainage channel) at a depth of about 10 feet at the end of drilling. No groundwater was encountered in the other borings or pits. All our borings were backfilled with lean cement grout in accordance with Contra Costa County requirements prior to leave the site. It should be noted that the borings might not have been left open for a sufficient period of time to establish equilibrium groundwater conditions. In addition,

fluctuations in the groundwater level could occur due to change in seasons, variations in rainfall, and other factors.

3.4 Hydrologic Soil Group

The surface soils of the site have been mapped as Gilroy clay loam (15 to 30 percent slopes, MLRA 15) in the southwest portion of the site, Gilroy clay loam (30 to 50 percent slopes, MLRA 15) in a small portion of the west corner, Los Osos clay loam (15 to 30 percent slopes, MLRA 15) in a small portion of the northwest corner, and Perkins gravelly loam (2 to 9 percent slopes) the rest of the site by USDA Web Soil Survey (WSS)[1]. The soils were assigned to Hydrologic Soil Group C and D by USDA Natural Resources Conservation Service (NRCS); the soils have been categorized as having very low to moderately high transmission rates (approximately 0.00 to 0.57 inches per hour).

Based on our site observations, the soils encountered in our borings, and the results of our laboratory testing, we recommend the near surface soils at the site be categorized as Group D soils. The Group D soils are defined as having a very slow infiltration rate when thoroughly wet (high runoff potential) and consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

3.5 Geology and Seismicity

According to Helley and Graymer (1997)[2], the site is underlain by Plio-Pleistocene undifferentiated continental gravel deposits that are generally composed of semi-consolidated to unconsolidated poorly sorted gravel, sand, silt and clay. According to Graymer, Jones, and Brabb (1994)[3], the site (below surficial deposits) is underlain by Jurassic Diabase and Late Jurassic to early Cretaceous Knoxville Formation. The bedrock encountered by Pits P-1 and P-3 appeared to be sandstone of the Knoxville Formation. Our engineering geology map for the site is shown on Figure 1.

The project site is located in the San Francisco Bay Area that is considered one of the most seismically active regions in the United States. Significant earthquakes have occurred in the San Francisco Bay Area and are believed to be associated with crustal movements along a system of

---

[1]http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm (accessed 08/21/19)

[2]Helley and Graymer, 1997, *Quaternary Geology of Contra Costa County, and Surrounding Parts of Alameda, Marin, Sonoma, Solano, Sacramento, and San Joaquin Counties, California: A Digital Database,* USGS Open-file Report 97-98.

[3]Graymer, Jones, and Brabb, 1994, *Preliminary Geologic Map Emphasizing Bedrock Formations in Contra Costa County, California: A Digital Database,* USGS Open-file Report 94-622.

sub-parallel fault zones that generally trend in a northwesterly direction. According to the Alquist-Priolo Earthquake Fault Zones Map of the Clayton Quadrangle, the site is not located in an earthquake fault zone as designated by the State of California[4].

Earthquake intensities will vary throughout the San Francisco Bay Area, depending upon numerous factors including the magnitude of earthquake, the distance of the site from the causative fault, and the type of materials underlying the site. The U.S. Geological Survey (2016)[5] has stated that there is a 72 percent chance of at least one magnitude 6.7 or greater earthquake striking the San Francisco Bay region between 2014 and 2043. Therefore, the site will probably be subjected to at least one moderate to severe earthquake that will cause strong ground shaking.

According to the U.S. Geological Survey 's Unified Hazard Tool and applying the Dynamic: Conterminous U.S. 2008 (v3.3.2) model (accessed 08/21/19), the resulting deaggregation calculations indicate that the site has a 10% probability of exceeding a peak ground acceleration of about 0.57g in 50 years (design basis ground motion based on stiff soil to very dense soil and soft rock site condition; mean return time of 475 years). The actual ground surface acceleration might vary depending upon the local seismic characteristics of the underlying bedrock and the overlying unconsolidated soils.

3.6 Liquefaction

Soil liquefaction is a phenomenon primarily associated with saturated, cohesionless, soil layers located close to the ground surface. These soils lose strength during cyclic loading, such as imposed by earthquakes. During the loss of strength, the soil acquires mobility sufficient to permit both horizontal and vertical movements. Soils that are most susceptible to liquefaction are clean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. According to ABAG and the U.S. Geological Survey[6,7], the site is located in an area that has been characterized as having very low to low liquefaction susceptibility. As of the date of this report, the liquefaction potential of the site has not been evaluated by the State of California[8].

Based on our review of available literature and the results of field explorations at the site, it is our opinion that the potential for ground surface damage at the site resulting from liquefaction is low.

---

[4]State of California, *Special Studies Zones, Clayton Quadrangle*, Revised Official Map, Effective: July 1, 1993.
[5]Aagaard, Blair, Boatwright, Garcia, Harris, Michael, Schwartz, and DiLeo, *Earthquake Outlook for the San Francisco Bay Region 2014–2043*, USGS Fact Sheet 2016–3020, Revised August 2016 (ver. 1.1).
[6]Witter, Knudsen, Sowers, Wentworth, Koehler, and Randolph, 2006, *Maps of Quaternary Deposits and Liquefaction Susceptibility in the Central San Francisco Bay Region, California*", USGS Open File Report 2006-1037.
[7]Knudsen, Sowers, Witter, Wentworth, and Helly, 2000, *Preliminary Maps of Quaternary Deposits and Liquefaction Susceptibility, Nine-County San Francisco Bay Region, California*, USGS Open File Report 00-444.
[8]Seismic Hazards Mapping Act, 1990.

4.0 CONCLUSIONS AND RECOMMENDATIONS

It is our opinion that the site is suitable for the proposed project from a geotechnical engineering standpoint. The conclusions and recommendations presented in this report should be incorporated in the design and construction of the project to reduce soil or foundation related issues. The following are the primary geotechnical considerations for development of the site.

WEAK SOIL RE-COMPACTION: Weak and highly compressible soils mantle the development area of the site to depths of about 2 feet. In order to provide support of the planned improvements (such as fills, foundations, roadways, driveways, etc.), we recommend over-excavating the existing site grades about 1 foot, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. There would be no need to over-excavate soils within areas that do not support improvements, such as in planned open spaces beyond the limits of the lots. Where the over-excavation limits abut adjacent property, SFB should be consulted to determine the actual vertical and lateral extent of over-excavation so that adjacent property is not adversely impacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness will occur below the proposed building foundations. Removed soil can be used as new fill provided it is placed and compacted in accordance with the recommendations presented in this report.

The extent of the removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

The exploratory pits were loosely backfilled and wheel-rolled upon completion. The backfill will require over-excavation and re-compaction at the time for the grading operations.

EXPANSION POTENTIAL: Most of the clayey surficial soils were found to be moderately expansive and will be subjected to volume changes during seasonal moisture content fluctuations. To reduce the potential for post-construction distress to the proposed structure resulting from shrinkage and swelling of these materials, we recommend that the proposed structure be supported on a post-tensioned slab foundation system that is designed to reduce the impact of the expansive soils. It should be noted that special design considerations will also be required for exterior slabs.

The clayey soils encountered in Pit P-2 are highly expansive and can cause distress to overlying improvements when subjected to changes in moisture content. We recommend these highly expansive clays either (1) be completely over-excavated and mixed into planned fill materials or (2) be capped with at least 3 feet of engineered fill whose source is from elsewhere onsite. If alternative (1) is used, SFB should observe the over-excavation and mixing process so that the highly expansive clays are not placed in any one localized area.

CUT/FILL TRANSITIONS AND DIFFERENTIAL FILL THICKNESS: Proposed grading may result in cut/fill transitions across building pads and differential fill thickness greater than 5 feet below building foundations. In order to reduce the potential for excessive differential movement across the proposed home foundations, we recommend that foundations bear entirely on an engineered fill layer and that no more than 5 feet of differential fill thickness exist below foundations. Over-excavation and re-compaction below foundations will likely be necessary in some lots to satisfy this criterion.

EROSION AND SLOPE MAINTENANCE: Drainage and erosion control measures should be maintained during and after construction. Short-term and long-term erosion control are critical for the stability of any exposed cut and fill slopes, and may be necessary for the natural slopes in order to reduce sediment accumulation in the drainage systems. We recommend all exposed cut and fill slopes be seeded or planted with appropriately designed erosion resistant vegetation and fertilizer. The vegetation should be appropriately irrigated in order to establish and maintain growth. Over-watering should be avoided in order to reduce surficial instability and erosion. Vegetation should be deeply rooted to aid in the interlocking of the near-surface soils. Additional seeding and planting may be necessary in localized areas if the initial seeding or planting is unsuccessful. After seeding, fertilizing, and planting, staked erosion control blankets might be necessary to further stabilize the surficial soils.

Additional erosion control measures will need to be designed and implemented prior to the rainy season based upon the site's configuration. The measures could include straw wattles, silt fencing, hay bales, sediment collection basins, and filtration systems. Silt fencing should be designed for the site's soil type. Storm water discharge and release points from silt fencing should be designed to reduce erosion. In areas exposed to winter rains, we recommend an erosion control plan be prepared and implemented at least one month prior to the beginning of the rainy season. The erosion control measures will require inspection, modification, and re-mediation during the rainy season in order to comply with regulatory requirements.

CORROSION POTENTIAL: Four onsite soil sample was tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in Appendix B. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors so that they can design and install corrosion protection measures. Please be aware that we are not corrosion protection experts; we recommend corrosion protection measures be designed and constructed so that all concrete and metal, including foundation post-tensioned cables and their end cut-offs, are protected against corrosion. We also recommend additional testing be performed

if the test results are deemed insufficient by the designers and installers of the corrosion protection. Landscaping soils typically contain fertilizers and other chemicals than can be highly corrosive to metals and concrete; landscaping soils commonly are in contact with foundations. Consideration should be given to testing the corrosion potential characteristics of proposed landscaping soils and other types of imported or modified soils in order to design and provide protection against corrosion for the foundation and pipelines.

ADDITIONAL RECOMMENDATIONS: Detailed drainage, earthwork, foundation, retaining wall, and pavement recommendations for use in design and construction of the project are presented below. We recommend SFB review the design and specifications to verify that the recommendations presented in this report have been properly interpreted and implemented in the design, plans, and specifications. We also recommend SFB be retained to provide consulting services and to perform construction observation and testing services during the construction phase of the project to observe and test the implementation of our recommendations, and to provide supplemental or revised recommendations in the event conditions different than those described in this report are encountered. We are not responsible for misinterpretation of our recommendations.

It is the responsibility of the contractors to provide safe working conditions at the site at all times. We recommend all OSHA regulations be followed, and excavation safety be ensured at all times. It is beyond our scope of work to provide excavation safety designs.

4.1 Earthwork

4.1.1 Clearing and Site Preparation

The site should be cleared of all obstructions including any existing structures and their entire foundation systems, existing utilities and pipelines and their associated backfill, designated trees and their associated entire root systems, and debris. Holes resulting from the removal of underground obstructions extending below the proposed finish grade should be cleared and backfilled with fill materials as specified in **Section 4.1.4, *Fill Material***, and compacted to the requirements in **Section 4.1.5, *Compaction***. Tree roots may extend to depths of about 3 to 4 feet. Wells and septic systems, if they exist, should be abandoned in accordance with Contra Costa County standards.

From a geotechnical standpoint, any existing trench backfill materials, clay or concrete pipes, pavements, and concrete that are removed can be used as new fill onsite provided debris is removed and it is broken up to meet the size requirement for fill material in **Section 4.1.4, *Fill Material***. We recommend fill materials composed of broken up concrete or asphalt concrete not be located

within 3 feet of the ground surface in yard areas. Consideration should be given to placing these materials below pavements, directly under building footprints, or in deeper excavations. We recommend backfilling operations for any excavations be performed under the observation and testing of SFB.

At least two weeks prior to grading, areas containing surface vegetation should be mowed and the cut grasses and weeds removed from the site or stockpiled for use in landscaping. After mowing, the site should be disced or stripped. Portions of the site containing heavy surface vegetation that is not removed by discing should be stripped to an appropriate depth to remove these materials. The amount of actual stripping should be determined in the field by SFB at the time of construction. Stripped materials should be removed from the site or stockpiled for later use in landscaping, if desired.

4.1.2 Weak Soil Re-Compaction

As described previously, the upper two feet of the surface soils are generally loose, weak, and potentially compressible. In order to reduce the potential for damaging differential settlement of overlying improvements (such as new fills, building foundations, exterior flatwork, and pavements), we recommend these weak soil materials be completely removed and re-compacted.

We estimate the process can consist of over-excavating the existing surface grade 1 foot, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. There would be no need to over-excavate soils within areas that do not support improvements, such as within planned open spaces.

Where the over-excavation limits abut adjacent property, SFB should be consulted to determine the actual vertical and lateral extent of over-excavation so that adjacent property is not adversely impacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness exists below the proposed building foundations. The extent of the removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

Removed fill and soil materials may be used as new fill onsite provided it satisfies the recommendations provided in **Section 4.1.4, *Fill Material***. Compaction should be performed in accordance with the recommendations in **Section 4.1.5, *Compaction***.

4.1.3 Subgrade Preparation

After the completion of clearing, site preparation, and weak soil re-compaction, soil exposed in areas to receive improvements (such as structural fill, building foundations, driveways, exterior flatwork, and pavements) should be scarified to a depth of about 12 inches, moisture conditioned

to approximately 2 to 3 percent over optimum water content, and compacted to the requirements for structural fill.

If building pads or pavement subgrade are allowed to remain exposed to sun, wind, or rain for an extended period of time, or are disturbed by borrowing animals or vehicles, the exposed subgrade or pavement subgrade may need to be reconditioned (moisture conditioned and/or scarified and recompacted) prior to foundation or pavement construction. SFB should be consulted on the need for subgrade reconditioning when the subgrade is left exposed for extended periods of time.

4.1.4 Fill Material

From a geotechnical and mechanical standpoint, onsite soils having an organic content of less than 3 percent by volume can be used as fill. Fill should not contain rocks or lumps larger than 6 inches in greatest dimension with not more than 15 percent larger than 2.5 inches. If required, imported fill should have a plasticity index of 15 or less and have a significant amount of cohesive fines.

In addition to the mechanical properties specifications, all imported fill material should have a resistivity (100% saturated) no less than the resistivity for the onsite soils, a pH of between approximately 6.0 and 8.5, a total water soluble chloride concentration less than 300 ppm, and a total water soluble sulfate concentration less than 500 ppm. We recommend import samples be submitted for corrosion and geotechnical testing at least two weeks prior to being brought onsite.

4.1.5 Compaction

Within the upper 5 feet of the finished ground surface, we recommend structural fill be compacted to at least 90 percent relative compaction, and structural fill below a depth of 5 feet be compacted to at least 95 percent relative compaction, as determined by ASTM D1557 (latest edition). We recommend the new fill be moisture conditioned approximately 2 to 3 percent over optimum water content. The upper 6 inches of subgrade soils beneath pavements should be compacted to at least 95 percent relative compaction. Fill material should be spread and compacted in lifts not exceeding approximately 8 to 12 inches in un-compacted thickness.

4.1.6 Engineered Slopes

4.1.6.1 General

We recommend cut and non-reinforced fill slopes not exceed an inclination of 2:1 (horizontal to vertical). Steeper fill slopes are feasible provided they are mechanically reinforced with geogrid; if requested, SFB can provide detailed designs of slope reinforcing if needed. We recommend all cut and fill slopes be constructed with surface drainage collection and discharge facilities. Shallow slope movements such as surficial sloughing, toppling, and flows, however, could still occur as a

result of erosion and unanticipated water infiltration. To decrease the potential for shallow slope movement, the drainage and erosion control recommendations presented in this report should be implemented in the design and construction of the site. The implemented drainage and erosion control measures should be maintained during and after construction. Slope benches should be constructed in accordance with the latest edition of the California Building Code. Slope maintenance may include re-establishing drainage patterns, controlling water infiltration, and repairing shallow slope movements.

4.1.6.2 Fill Slopes

We recommend fill slopes be built using well-mixed, moisture conditioned, and well blended engineered fill to reduce the potential for slope expansion and creeping. We also recommend that fill slopes be over-built approximately 2 feet horizontally and then trimmed back to finished grades. Where fills are placed on slopes steeper than 10:1 (horizontal to vertical), the fills should be keyed at least 5 feet into competent native soils or at least 3 feet into competent bedrock. Keyways should be at least 10 feet wide and a subdrain should be placed at the bottom and to the rear of each keyway. The keyway should be sloped toward the back of the key at 2 percent or steeper. A subgrade bench and subdrain should be provided for approximately every 10 feet of vertical elevation gain, and the bench should extend at least one foot into competent soils or bedrock. Subdrain construction is described in **Section 4.1.7, *Subsurface Drainage***. The actual extent of the keying, benching, and subdrainage should be determined by SFB during earthwork operations. SFB should also be consulted during the development of grading plans to estimate locations of keyways and subdrains.

4.1.7 Subsurface Drainage

In order to reduce the potential for subsurface water created issues, we recommend subdrains be installed below engineered fill placed on slopes, at the toe of slopes, and where open space areas direct water toward improvements. During the earthwork operations, additional subdrains may be necessary in areas of encountered or anticipated seepage on the slopes. We recommend a subdrain be located below lined ditches or earthen swales that collect surface water from open space areas; the purpose of the subdrain is to intercept water that can flow under ditches and cause damage and distress. The actual location and extent of subdrains should be assessed by SFB during the development of the grading and improvement plans and determined in the field by SFB at the time of construction.

Where used, subdrains should consist of 4-inch diameter, rigid perforated pipe (perforations down) surrounded by free draining, uniformly graded, 1/2 to 3/4-inch crushed gravel wrapped in filter fabric such as Mirafi 140N or equivalent. The pipe should be underlain by about 1/2 to 1 inch of the gravel, and on the sides by at least 4 inches of gravel. The filter fabric should overlap approximately 12 inches or more at joints. Subdrains should be connected to a solid, rigid,

collector pipe with a minimum diameter of 4 inches. Subdrain pipes can consist of rigid ABS (SDR-35) or PVC A-2000 (or equal) for fills less than 20 feet in height. Collector pipes should be connected to appropriate discharge facilities such as storm drains, drainage inlets, or storm drain manholes. Subdrain clean-outs should be provided. The clean-out locations should be based upon the reach of the rotary cleaning systems and the restrictions of pipe bends. Caltrans Class 2 permeable material may be used in lieu of gravel and filter fabric.

Where used, subdrain trenches should be at least 12 inches wide and about 4 feet deep below adjacent ground surface. If a subdrain trench extends to the ground surface and is not covered with concrete lined ditch or concrete flatwork, we recommend the subdrain trench be covered with a 12-inch thick cap consisting of native soil compacted to at least 90 percent relative compaction.

4.1.8 Utility Trench Backfill

Pipeline trenches should be backfilled with fill placed in lifts of approximately 8 inches in uncompacted thickness. Thicker lifts can be used provided the method of compaction is approved by SFB and the required minimum degree of compaction is achieved. Backfill should be placed by mechanical means only. Jetting is not permitted.

Onsite trench backfill should be compacted to at least 90 percent relative compaction. Imported sand trench backfill should be compacted to at least 95 percent relative compaction and sufficient water is added during backfilling operations to prevent the soil from "bulking" during compaction. The upper 3 feet of trench backfill in foundation, slab, and pavement areas should be entirely compacted to at least 95 percent relative compaction. To reduce piping and settlement of overlying improvements, we recommend rock bedding and rock backfill (if used) be completely surrounded by a filter fabric such as Mirafi 140N (or equivalent); alternatively, filter fabric would not be necessary if Caltrans Class 2 permeable material is used in lieu of rock bedding and rock backfill.

Sand or gravel backfilled trench laterals that extend toward driveways, exterior slabs-on-grade, or under the building foundations, and are located below irrigated landscaped areas such as lawns or planting strips, should be plugged with onsite clays, low strength concrete, or sand/cement slurry. The plug for the trench lateral should be located below the edge of pavement or slabs, and under the perimeter of the foundation. The plug should be at least 24 inches thick, extend the entire width of the trench, and extend from the bottom of the trench to the top of the sand or gravel backfill.

4.1.9 Exterior Flatwork

We recommend that exterior slabs (including patios, sidewalks, and driveways) be placed directly on the properly compacted fills. We do not recommend using aggregate base, gravel, or crushed rock below these improvements. If imported granular materials are placed below these elements,

subsurface water can seep through the granular materials and cause the underlying soils to saturate or pipe. Prior to placing concrete, subgrade soils should be moisture conditioned to increase their moisture content to approximately 2 to 3 percent above laboratory optimum moisture (ASTM D-1557).

The more expansive clayey soils at the site could be subjected to volume changes during fluctuations in moisture content. As a result of these volume changes, some vertical movement of exterior slabs (such as driveways, sidewalks, patios, exterior flatwork, etc.) should be anticipated. This movement could result in damage to the exterior slabs and might require periodic maintenance or replacement. Adequate clearance should be provided between the exterior slabs and building elements that overhang these slabs, such as window sills or doors that open outward.

We recommend reinforcing exterior slabs with steel bars in lieu of wire mesh. To reduce potential crack formation, the installation of #4 bars spaced at approximately 24 inches on center in both directions should be installed. Score joints and expansion joints should be used to control cracking and allow for expansion and contraction of the concrete slabs. We recommend appropriate flexible, relatively impermeable fillers be used at all cold/expansion joints. The installation of dowels at all expansion and cold joints will reduce differential slab movements; the dowels should be at least 30 inches long and should be spaced at a maximum lateral spacing of 24 inches. Although exterior slabs that are adequately reinforced will still crack, trip hazards requiring replacement of the slabs will be reduced if the slabs are properly reinforced.

4.1.10 Construction during Wet Weather Conditions

If construction proceeds during or shortly after wet weather conditions, the moisture content of the onsite soils could be significantly above optimum. Consequently, subgrade preparation, placement and/or reworking of onsite soil or fills as structural fill might not be possible. Alternative wet weather construction recommendations can be provided by our representative in the field at the time of construction, if appropriate. All the drainage measures recommended in this report should be implemented and maintained during and after construction, especially during wet weather conditions.

4.1.11 Surface Drainage, Irrigation, and Landscaping

Ponding of surface water must not be allowed on pavements, adjacent to foundations, at the top or bottom of slopes, and at the top or adjacent to catchment and retaining walls. Ponding of water should also not be allowed on the ground surface adjacent to or near exterior slabs, including driveways, walkways, and patios. Surface water should not be allowed to flow over the top of slopes, down slope faces, or over catchment and retaining walls.

We recommend positive surface gradients of at least 2 percent be provided adjacent to foundations to direct surface water away from the foundations and toward suitable discharge facilities. Roof downspouts and landscaping drainage inlets should be connected to solid pipes that discharge the collected water into appropriate water collection facilities. We recommend the surface drainage be designed in accordance with the latest edition of the California Building Code.

In order to reduce differential foundation movements, landscaping (where used) should be placed uniformly adjacent to the foundation and exterior slabs. We recommend trees be no closer to the structure or exterior slabs than half the mature height of the tree; in no case should tree roots be allowed to extend near or below the foundations or exterior slabs.

Drainage inlets should be provided within enclosed planter areas and the collected water should be discharged onto pavement, into drainage swales, or into storm water collection systems. In order to reduce the potential for heaving, consideration should be given to lining planting areas and collecting the accumulated surface water in subdrain pipes that discharge to appropriate collection facilities. The drainage should be designed and constructed so that the moisture content of the soils surrounding the foundations do not become elevated and no ponding of water occurs. The inlets should be kept free of debris and be lower in elevation than the adjacent ground surface.

We recommend regular maintenance of the drainage systems be performed, including maintenance prior to rainstorms. The inspection should include checking drainage patterns to make sure they are performing properly, making sure drainage systems and inlets are functional and not clogged, and checking that erosion control measures are adequate for anticipated storm events. Immediate repairs should be performed if any of these measures appears to be inadequate.

Irrigation should be performed in a uniform, systematic manner as equally as possible on all sides of the foundations and exterior slabs to maintain moist soil conditions. Over-watering must be avoided. To reduce moisture changes in the natural soils and fills in landscaped areas, we recommend that drought resistant plants and low flow watering systems be used. All irrigation systems should be regularly inspected for leakage.

4.1.12 Storm Water Runoff Structures

To satisfy local and state permit requirements, most new development projects must control pollutant sources and reduce, detain, retain, and/or treat specified amounts of storm water runoff. The intent of these types of improvements is to conserve and incorporate on-site natural features, together with constructed hydrologic controls, to more closely mimic pre-development hydrology and watershed processes.

We recommend storm water collection improvements that are designed to detain, retain, and/or treat water such as bio-swales, porous pavement structures, and water detention basins, be lined with a relatively impermeable membrane in order to reduce water seepage and the potential for damage and distress to other infrastructure improvements (such as pavements, foundations, and walkways) which can occur as a result of volumetric soil/fill changes (heaving and shrinking of the surrounding soil/fill). We recommend a relatively impermeable membrane such as STEGO Wrap 15-mil or equivalent be installed below and along the sides of these facilities that direct the collected water into subdrain pipes. The membrane should be lapped and sealed in accordance with the manufacture's specifications, including taping joints where pipes penetrate the membrane. A subdrain pipe should be used at the base of the infiltration materials to collect accumulated water and transmit the water to an appropriate facility.

Soil filter materials within basins and swales will consolidate over time causing long-term ground surface settlement. Additional filling within the basins and swales over time will be needed to maintain design surface elevations. The soil filter materials, infiltration testing and procedures, and associated compaction requirements should be specified by the Civil Engineer and shown in detail on the grading and improvement plans.

Sidewalls of earthen swales and basins steeper than 3:1 (horizontal to vertical) will experience downward and lateral movements that can cause significant ground surface movements, including movement of adjacent improvements such as foundations, utilities, pavements, driveways, walkways, and curbs and gutters. The magnitude and rate of movement depends upon the swale and basin backfill material type and compaction. To reduce the potential for damaging movements, we recommend 3:1 sidewall slopes be used for earthen swales and basins, sidewalks be setback at least 3 feet from the top of the slope, creep sensitive improvements (such as roadway curbs) be setback at least 5 feet from the top of the slopes, or the slopes/sidewalls be appropriately restrained using an engineered retaining system, such as deepened curbs and foundations that are designed to resist lateral earth pressures and act as a retaining wall.

SFB should be consulted regarding the use, locations, and design of storm water detention and filtration facilities. We also recommend SFB observe and document the installation of liners, subdrain pipes, and soil filter materials during construction for conformance to the recommendations in this report and the development's plans and specifications.

4.1.13 Future Maintenance

In order to reduce water related issues, we recommend regular maintenance of the site and each lot be performed, including maintenance prior to rainstorms. Maintenance should include the re-compaction of loosened soils, collapsing and infilling holes with compacted soils or low strength sand/cement grout, removal and control of digging animals, modifying storm water drainage

patterns to allow for sheet flow into drainage inlets or ditches rather than concentrated flow or ponding, removal of debris within drainage ditches and inlets, and immediately repairing any erosion or soil flow. The inspection should include checking drainage patterns, making sure drainage systems are functional and not clogged, and erosion control measures are adequate for anticipated storm events. Immediate repair should be performed if any of these measures appear to be inadequate. Temporary and permanent erosion and sediment control measures should be installed over any exposed soils immediately after repairs are made.

Differential movement of exterior slabs can occur over time as a result of numerous factors. We recommend homeowners, the HOA, and development owners perform inspections and maintenance of slabs, including infilling significant cracks, providing fillers at slab offsets, and replacing slabs if severely damaged.

4.1.14 Additional Recommendations

We recommend that drainage, irrigation, landscaping, and maintenance recommendations provided in this report be forwarded to your designers and contractors, and we recommend they be included in disclosure statements given to homeowners, development owners, and their maintenance associations.

4.2 Foundation Support

4.2.1 Post-Tensioned Slabs

The proposed residential buildings can be supported on a post-tensioned slab foundation that is designed for the expansion potential of onsite soils. The slab foundation should bear entirely on properly prepared, compacted structural fill. Prior to the concrete pour, we recommend the moisture content of the pad subgrade materials be approximately 2 to 3 percent above laboratory optimum moisture. If the building pads are left exposed for an extended period of time prior to constructing foundations, we recommend SFB be contacted for recommendations to re-condition pads in order provide adequate building support.

The post-tensioned slab thickness should be determined by the Structural Engineer, however we recommend the post-tensioned slabs be at least 10 inches thick. An allowable bearing pressure of 1,500 pounds per square foot can be used for localized point and line loads. Deflection of the slab foundations should not exceed the values recommended in the most recent PTI Manual. Lateral loads, such as derived from earthquakes and wind, can be resisted by friction between the post-tensioned slab foundation bottom and the supporting subgrade. A friction coefficient of 0.25 is considered applicable.

At least 10 feet of cover should be provided between the outer face of slabs and un-retained slope faces, as measured laterally between slope faces and the slabs. Where less than 10 feet of cover exists, deepening of the edge of slabs may be necessary in order to achieve 10 feet of cover for buildings located near tops of slopes. Where slabs are located adjacent to utility trenches, the slab bearing surface should bear below an imaginary 1 horizontal to 1 vertical plane extending upward from the bottom edge of the adjacent utility trench. Alternatively, the slab reinforcing could be increased to span the area defined above assuming no soil support is provided.

A vapor retarder must be placed between subgrade soils and the bottom of the slabs-on-grade. We recommend the vapor retarder consist of a single layer of Stego Wrap Vapor Barrier 15 mil Class A or equivalent provided the equivalent satisfies the following criteria: a permeance as tested before and after mandatory conditioning of less than 0.01 Perms and strength of Class A as determined by ASTM E 1745 (latest edition), and a thickness of at least 15 mils. Installation of the vapor retarder should conform to the latest edition of ASTM E 1643 (latest edition) and the manufacturers requirements, including all joints should be lapped at least 6 inches and sealed with Stego Tape or equal in accordance with the manufacturer's specifications. Protrusions where pipes or conduit penetrate the membranes should be sealed with either one or a combination of Stego Tape, Stego Mastic, Stego Pipe Boots, or a product of equal quality as determined by the manufacturer's instructions and ASTM E 1643. Care must be taken to protect the membrane from tears and punctures during construction. We do not recommend placing sand or gravel over the membrane.

Concrete slabs retain moisture and often take many months to dry; construction water added during the concrete pour further increases the curing time. If the slabs are not allowed to completely cure prior to constructing the super-structure, the concrete slabs will expel water vapor and the vapor will be trapped under impermeable flooring. The concrete mix design for the slabs should have a maximum water/cement ratio of 0.45; the actual water/cement ratio may need to be reduced if the concentration of soluble sulfates or chlorides in the supporting subgrade is detrimental to the concrete. The results of sulfate and chloride testing of four onsite soil samples are included under separate cover. We recommend you consult with your concrete slab designers and concrete contractors regarding methods to reduce the potential for differential concrete curing.

An experienced Structural Engineer should design the post-tensioned slabs to resist the differential soil movement. The preliminary soil design parameters presented below were generated using the procedures presented in the Post-Tensioning Institute (PTI) design manual and PTI published specifications, and the PTI preferred computer program VOLFLO was employed to simulate the wetting and drying scenarios of the soils beneath the post-tensioned slabs.

The values provided below are based upon the post-tensioned slab foundations being entirely surrounded by uniform, properly drained, moderately irrigated landscaping; if differing conditions

exist that will cause differential soil moisture adjacent or below the slabs, or if portions of the foundations will be located adjacent to relatively dry or wet soils, then we should be consulted and modifications to the values below would need to be modified in writing. Please refer to **Section 4.1.11, *Surface Drainage, Irrigation, and Landscaping***, for additional recommendations. We recommend that slab-subgrade friction values provided in the most recent PTI Manual be used in order to determine the friction that might be expected to exist during tendon stressing.

SWELLING MODE

	Center Lift	Edge Lift
Edge Moisture Variation Distance (e_m)	9.0 feet	5.0 feet
Differential Soil Movement (y_m)	0.5 inch	1.0 inch

We recommend SFB review the foundation drawings and specifications prior to submittal to verify that the recommendations provided in this report have been used and properly interpreted in the design of the slabs.

4.2.2 Retaining Walls

If segmental block walls with geogrid will be used at the site, SFB should be contacted to provide block wall and geogrid designs and specifications.

Where walls retain soil, they must be designed to resist both lateral earth pressures and any additional lateral loads caused by surcharging such as building and roadway loads. Where walls are used to retain soil, we recommend unrestrained walls (walls free to deflect and disconnected from other structures) be designed to resist an equivalent fluid pressure of 40 pounds per cubic foot. This assumes a level backfill. Restrained walls (walls restrained from deflection) should be designed to resist an equivalent fluid pressure of 40 pounds per cubic foot plus a uniform pressure of 8H pounds per square foot, where H is the height of the wall in feet. Walls with inclined backfill should be designed for an additional equivalent fluid pressure of 1 pound per cubic foot for every 2 degrees of slope inclination. Walls subjected to surcharge loads should be designed for an additional uniform lateral pressure equal to one-third and one-half the anticipated surcharge load for unrestrained and restrained walls, respectively. These lateral pressures depend upon the moisture content of the retained soils to be constant over time; if the moisture content of the retained soils will fluctuate or increase compared to the moisture content at time of construction, then SFB should be consulted and provide written modifications to this design criteria.

For retaining walls that need to resist earthquake induced lateral loads from nearby foundations, walls that are to be designed to resist earthquake loads, and any retaining walls that are higher than

6 feet (as required by the 2016 CBC), we recommend the walls also be designed to resist a triangular pressure distribution equal to an equivalent fluid pressure of 30 pounds per cubic foot based on the ground acceleration from a design basis earthquake. This seismic induced earth pressure is in addition to the pressures noted above. Due to the transient nature of the seismic loading, a factor of safety of at least 1.0 can be used in the design of the walls when they resist seismic lateral loads. Some movement of the walls may occur during moderate to strong earthquake shaking and may result in distress as is typical for all structures subjected to earthquake shaking.

The recommended lateral pressures assume walls are fully-back drained to prevent the build-up of hydrostatic pressures. This can be accomplished by using ½ to ¾ inch crushed, uniformly graded gravel entirely wrapped in filter fabric such as Mirafi 140N or equal (an overlap of at least 12 inches should be provided at all fabric joints). The gravel and fabric should be at least 8 inches wide and extend from the base of the wall to within 12 inches of the finished grade at the top (Caltrans Class 2 permeable material (Section 68) may be used in lieu of gravel and filter fabric). A 4-inch diameter, perforated pipe should be installed at the base and centered within the gravel. The perforated pipe should be connected to a solid collector pipe that transmits the water directly to a storm drain, drainage inlet, or onto pavement. If weep holes are used in the wall, the perforated pipe within the gravel is not necessary provided the weep holes are kept free of animals and debris, are located no higher than approximately 6 inches from the lowest adjacent grade, and are able to function properly. As an alternative to using gravel, drainage panels (such as AWD SITEDRAIN Sheet 94 for walls or equal) may be used behind the walls in conjunction with perforated pipe (connected to solid collector pipe), weep holes, or strip drains (such as SITEDRAIN Strip 6000 or equal). If used, the drainage panels can be spaced on-center at approximately 2 times the panel width.

If heavy compaction equipment is used behind the walls, the walls should be appropriately designed to withstand loads exerted by the heavy equipment and/or temporarily braced. Fill placed behind walls should conform to the recommendations provided in **Section 4.1.4, *Fill Material***, and **Section 4.1.5, *Compaction***.

Retaining walls can be supported on drilled, cast-in-place, straight shaft friction piers that develop their load carrying capacity in the materials underlying the site. The piers should have a minimum diameter of 12 inches and a center-to-center spacing of at least three times the shaft diameter. We recommend that piers be at least 6 feet long. The pier reinforcing should be based on structural requirements but in no case should less than two #4 bars for the entire length of the pier be used.

The actual design depth of the piers should be determined using an allowable skin friction of 500 pounds per square foot (psf) for dead plus live loads, with a one-third increase for all loads including wind or seismic. Seventy percent of the skin friction value can be used to resist uplift.

Lateral load resistance can be developed in passive resistance for pier foundations. A passive resistance equal to an equivalent fluid weighing 350 pounds per cubic foot acting against twice the projected diameter of pier shafts can be used. The upper two feet of pier embedment should be neglected in the vertical and passive resistance design as measured from finished grade. The portion of the pier shaft located within 10 feet (as measured laterally) of the nearest slope face should also be ignored in the design.

We recommend the pier foundations be located outside of (or beyond) a 1:1 (horizontal to vertical) plane projected upward from the base of any wall or utility trench, or the portion of a pier located within this zone should be ignored in the design of the pier.

The bottoms of the pier excavations should be relatively dry and free of all loose cuttings or slough prior to placing reinforcing steel and concrete. Any accumulated water in pier excavations should be removed prior to placing concrete. We recommend that the excavation of all piers be performed under the direct observation of SFB to confirm that the pier foundations are founded in suitable materials and constructed in accordance with the recommendations presented herein. Preliminarily, we recommend concrete pours of pier excavations be performed within 24 hours of excavation and prior to any rainstorms. Where caving or high groundwater conditions exist, additional measures such as using casing, tremie methods, and pouring concrete immediately after excavating may be necessary. SFB should be consulted on the need for additional measures for pier construction as needed during construction.

4.2.3 Seismic Design Criteria

The following parameters were calculated using the U.S. Seismic Design Map program[9], and were based on the site being located at approximate latitude 37.935°N and longitude 121.944°W. For seismic design using the 2019 California Building Code (CBC), we recommend the following seismic design parameters be used. These values are based on applying the ASCE 7-16 model and assuming the structures are categorized as Risk Category II.

[9]https://seismicmaps.org/ (accessed 2/28/20)

Seismic Design Parameter	Design Value
Site Class	C
S_S	2.275
S_1	0.665
S_{MS}	2.731
S_{M1}	0.931
S_{DS}	1.820
S_{D1}	0.621
SDC	D
F_a	1.2
F_v	1.4
PGA_M	1.09

4.3 Pavements

Based on the results of laboratory testing of onsite materials, we recommend that an R-value of 5 be used in preliminary asphalt concrete pavement design. We recommend additional R-value tests be performed once the pavement subgrade is established to confirm the R-value used in the design. Pavement subgrade completely composed of sandy and gravelly fills will result in higher R-values and thinner pavement sections.

We developed the following alternative preliminary pavement sections using Topic 608 of the State of California Department of Transportation Highway Design Manual, the recommended R-value, and typical traffic indices for residential developments. The project's Civil Engineer or appropriate public agency should determine actual traffic indices. The pavement thicknesses shown below are SFB's recommended minimum values; governing agencies may require pavement thicknesses greater than those shown.

PRELIMINARY PAVEMENT DESIGN ALTERNATIVES SUBGRADE R-VALUE = 5			
Location	Pavement Components		Total Thickness (inches)
	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)	
T.I. = 4.5 (auto & light truck parking)	3.0	9.0	12.0
T.I. = 5.0 (access ways/courts)	3.0	11.0	14.0

If the pavements are planned to be placed prior to or during construction, the traffic indices and pavement sections may not be adequate for support of what is typically more frequent and heavier construction traffic. If the pavement sections will be used for construction access by heavy trucks or construction equipment (especially fork lifts with support footings), SFB should be consulted to provide recommendations for alternative pavement sections capable of supporting the heavier use and heavier loads. If requested, SFB can provide recommendations for a phased placement of the asphalt concrete to reduce the potential for mechanical scars caused by construction traffic in the finished grade. Preliminary pavement sections should be revised, if necessary, when actual traffic indices are known and pavement subgrade elevations are determined.

Pavement baserock and asphalt concrete should be compacted to at least 95 percent relative compaction. The asphalt concrete compacted unit weight should be determined using Caltrans Test Method 308-A or ASTM Test Method D1188. Asphalt concrete should also satisfy the S-value requirements by Caltrans.

We recommend regular maintenance of the asphalt concrete be performed at approximately five-year intervals. Maintenance may include sand slurry sealing, crack filling, and chip seals as necessary. If regular maintenance is not performed, the asphalt concrete layer could experience premature degradation requiring more extensive repairs.

5.0 CONDITIONS AND LIMITATIONS

SFB is not responsible for the validity or accuracy of information, analyses, test results, or designs provided to SFB by others or prepared by others. The analysis, designs, opinions, and recommendations submitted in this report are based in part upon the data obtained from our field work and upon information provided by others. Site exploration and testing characterizes subsurface conditions only at the locations where the explorations or tests are performed; actual subsurface conditions between explorations or tests may be different than those described in this report. Variations of subsurface conditions from those analyzed or characterized in this report are not uncommon and may become evident during construction. In addition, changes in the condition of the site can occur over time as a result of either natural processes (such as earthquakes, flooding, or changes in ground water levels) or human activity (such as construction adjacent to the site, dumping of fill, or excavating). If changes to the site's surface or subsurface conditions occur since the performance of the field work described in this report, or if differing subsurface conditions are encountered, we should be contacted immediately to evaluate the differing conditions to assess if the opinions, conclusions, and recommendations provided in this report are still applicable or should be amended.

We recommend SFB be retained to provide geotechnical services during design, reviews, earthwork operations, paving operations, and foundation installation to confirm and observe compliance with the design concepts, specifications and recommendations presented in this report. Our presence will also allow us to modify design if unanticipated subsurface conditions are encountered or if changes to the scope of the project, as defined in this report, are made.

This report is a design document that has been prepared in accordance with generally accepted geological and geotechnical engineering practices for the exclusive use of DeNova Homes and their consultants for specific application to the proposed Mitchell Canyon Road residential subdivision development project in Clayton, California, and is intended to represent our design recommendations to DeNova Homes for specific application to the subdivision project. The conclusions and recommendations contained in this report are solely professional opinions. It is the responsibility of DeNova Homes to transmit the information and recommendations of this report to those designing and constructing the project. We will not be responsible for the misinterpretation of the information provided in this report. We recommend SFB be retained to review geological and geotechnical aspects of the construction calculations, specifications, and plans; we should also be retained to participate in prebid and preconstruction conferences to clarify the opinions, conclusions, and recommendations contained in this report.

It should be understood that advancements in the practice of geotechnical engineering and engineering geology, or discovery of differing surface or subsurface conditions, may affect the

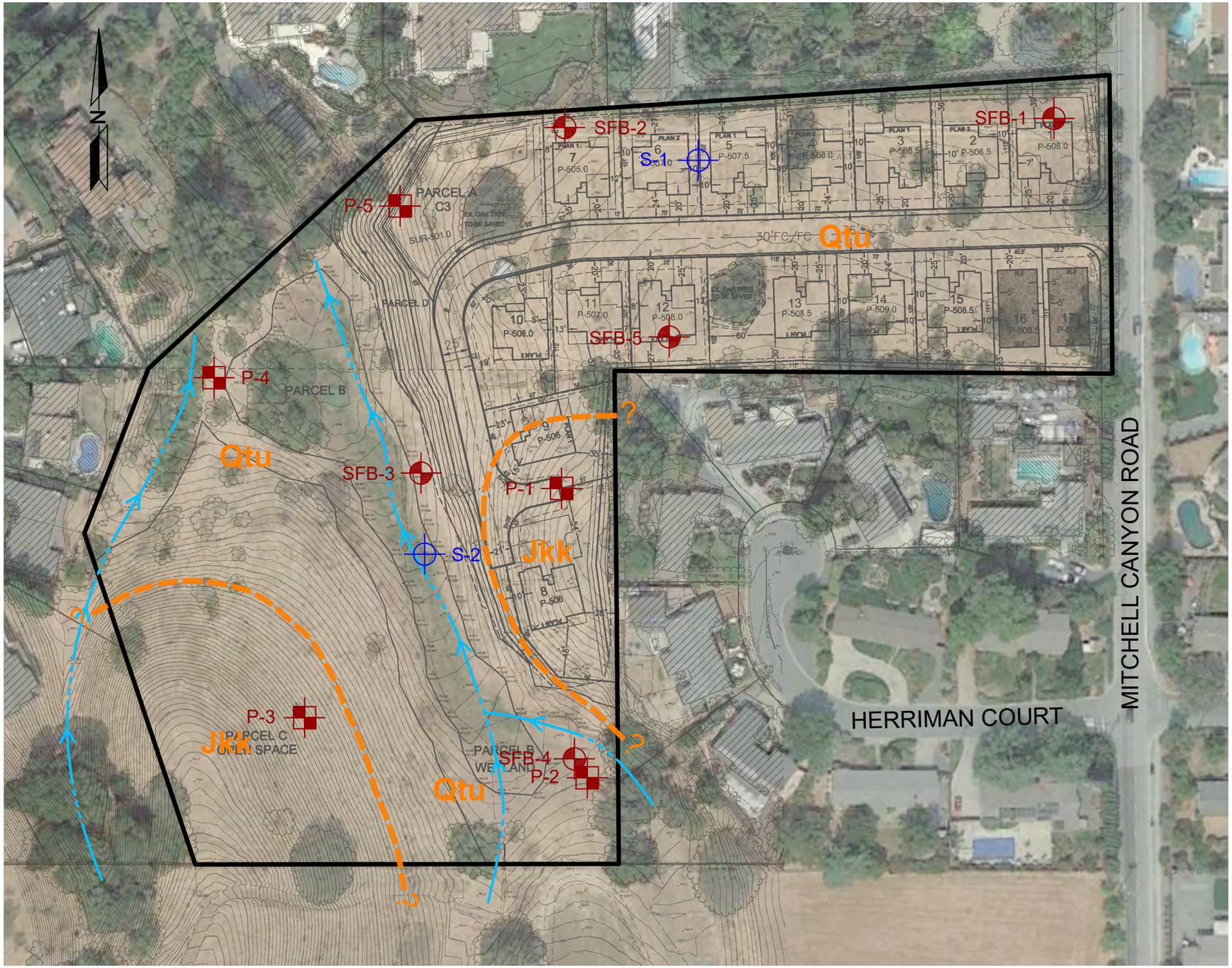
validity of this report and are not uncommon. SFB strives to perform its services in a proper and professional manner with reasonable care and competence but we are not infallible. Geological engineering and geotechnical engineering are disciplines that are far less exact than other engineering disciplines; therefore we should be consulted if it is not completely understood what the limitations to using this report are.

In the event that there are any changes in the nature, design or location of the project, as described in this report, or if any future additions are planned, the conclusions and recommendations contained in this report shall not be considered valid unless we are contacted in writing, the project changes are reviewed by us, and the conclusions and recommendations presented in this report are modified or verified in writing. The opinions, conclusions, and recommendations contained in this report are based upon the description of the project as presented in the introduction section of this report.

This report does not necessarily represent all of the information that has been communicated by us to DeNova Homes and their consultants during the course of this engagement and our rendering of professional services to DeNova Homes Reliance on this report by parties other than those described above must be at their own risk unless we are first consulted as to the parties' intended use of this report and only after we obtain the written consent of DeNova Homes to divulge information that may have been communicated to DeNova Homes We cannot accept consequences for use of segregated portions of this report.

Please refer to Appendix D for additional guidelines regarding use of this report.

FIGURES



KEY*

———	PROJECT LIMIT
P-5	SFB EXPLORATORY PIT (8/26/19)
SFB-5	SFB EXPLORATORY BORING (8/19/19)
S-2	PREVIOUS EXPLORATORY BORING (ABEL SOARES, 1976)
Qtu	PLIO-PLEISTOCENE GRAVELLY SOILS
Jkk	KNOXVILLE FORMATION SANDSTONE
?------?	GEOLOGIC CONTACT; QUERRIED WHERE NOT MAPPED
←———	EPHEMERAL DRAINAGE CHANNEL

*ALL LOCATIONS ARE APPROXIMATE

BASE: Overlayed project conceptual site plan prepared by Meridian Associates, Inc. and dated 1/20/20 on a Google Earth image dated 8/31/17.

APPROXIMATE SCALE: 1" = 100'

0' 100' 200'

DATE	PROJECT NO.
February 2020	155-90

Stevens Ferrone & Bailey Engineering Company, Inc
1600 Willow Pass Court
Concord, CA 94520
Tel 925.688.1001
Fax 925.688.1005
www.SFandB.com

SITE PLAN & ENGINEERING GEOLOGY MAP

MITCHELL CANYON ROAD
Clayton, California

FIGURE 1

APPENDIX A

Field Investigation

APPENDIX A
Field Investigation

Our field investigation for the proposed residential subdivision development to be located west of Mitchell Canyon Road in Clayton, California, consisted of surface reconnaissance and a subsurface exploration program. Geotechnical reconnaissance of the site and surrounding area was performed on August 14, 2019. Subsurface exploration was performed using a truck-mounted drill rig equipped with 4-inch diameter, continuous flight, solid stem augers and a Cat 430F2 backhoe. Five exploratory borings were drilled on August 19, 2019 to a maximum depth of about 21 feet below existing grade. Five exploratory test pits were excavated on August 26, 2019 to a maximum depth of about 6 feet below existing grade. Our representatives continuously logged the soils encountered in the borings and the pits in the field. The soils are described in general accordance with the Unified Soil Classification System (ASTM D2487). The logs of the borings and pits, as well as, a key for the classification of the soil (Figure A-1) and rocks mass characteristics (Figure A-2) are included as part of this appendix.

Representative samples were obtained from our exploratory borings and pits at selected depths appropriate to the investigation. Relatively undisturbed samples were obtained using a 3-inch O.D. split barrel sampler with liners, and disturbed samples were obtained using the 2-inch O.D. split spoon sampler. All samples were transmitted to our offices for evaluation and appropriate testing. Both sampler types are indicated in the "Sampler" column of the boring logs as designated in Figure A-1.

Resistance blow counts were obtained in our borings with the samplers by dropping a 140-pound safety hammer through a 30-inch free fall. The sampler was driven 18 inches and the number of blows were recorded for each 6 inches of penetration. The blows per foot recorded on the boring logs represent the accumulated number of converted blows that were required to drive the last 12 inches, or the number of inches indicated where hard resistance was encountered. The blow counts recorded on the boring logs have been converted to equivalent SPT field blow-counts, but have not been corrected for overburden, silt content, or other factors.

The attached boring and pit logs and related information show our interpretation of the subsurface conditions at the dates and locations indicated, and it is not warranted that they are representative of subsurface conditions at other locations and times.

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		grf	ltr	Description
Coarse Grained Soils	Gravel Gravelly Soils		GW	Well-graded gravels or gravel sand mixtures, little or no fines
			GP	Poorly-graded gravels or gravel sand mixture, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sand And Sandy Soils		SW	Well-graded sands or gravelly sands, little or no fines
			SP	Poorly-graded sands or gravelly sands, little or no fines
			SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, and-clay mixtures

Major Divisions		grf	ltr	Description
Soils	Silts And Clays LL < 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silt-clays of low plasticity
	Silts And Clays LL > 50		MH	Inorganic silts, micaceous or diatomaceous fine or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity
	Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZES

U.S. STANDARD SERIES SIEVE				CLEAR SQUARE SIEVE OPENINGS			
200	40	10	4	3/4"	3"	12"	

Silts and Clays	Sand			Gravel		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

RELATIVE DENSITY

Sands and Gravels	Blows/Foot*
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Over 50

CONSISTENCY

Silts and Clays	Blows/Foot*	Strength (tsf)**
Very Soft	0 - 2	0 - 1/4
Soft	2 - 4	1/4 - 1/2
Firm	4 - 8	1/2 - 1
Stiff	8 - 16	1 - 2
Very Stiff	16 - 32	2 - 4
Hard	Over 32	Over 4

*Number of Blows for a 140-pound hammer falling 30 inches, driving a 2-inch O.D. (1-3/8" I.D.) split spoon sampler.
**Unconfined compressive strength.

SYMBOLS & NOTES

- Standard Penetration sampler (2" OD Split Barrel)
- Modified California sampler (3" OD Split Barrel)
- California Sampler (2.5" OD Split Barrel)
- Shelby Tube
- Pitcher Barrel
- HQ Core
- Ground Water level initially encountered
- Ground Water level at end of drilling

PI = Plasticity Index
LL = Liquid Limit
R = R-Value

Increasing Visual Moisture Content

Saturated
Wet
Moist
Damp
Dry

Constituent Percentage

trace	<5%
some	5-15%
with	16-30%
-y	31-49%

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO EXPLORATORY BORING LOGS

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	FIGURE NO.
155-90	February 2020	A-1

KEY 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

ROCK MASS CHARACTERISTICS

WEATHERING

FRESH - Rock fresh, crystals bright, few joints may show slight staining. Rock rings under hammer blows if crystalline.

VERY SLIGHT - Rock generally fresh, joints stained, some joints may show thin clay coatings, crystals in broken face show bright. Rings under hammer blows if crystalline.

SLIGHT - Rock generally fresh, joints stained, and discoloration extends into rock up to 1 inch. Joints may contain clay. In granitiod rocks, some occasional feldspar crystals are dull and discolored. Crystalline rock rings under hammer blows.

MODERATE - Significant portions of rock show discoloration and weathering effects. In granitiod rocks, most feldspars are dull and discolored; some show clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.

MODERATELY SEVERE - All rock except quartz discolored or stained. In granitiod rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick. Rock goes "clunk" when struck.

SEVERE - All rock except quartz discolored or stained. Rock "fabric" clear and evident, but reduced in strength to strong soil. In some granitiod rocks, all feldspars kaolinized to some extent. Some fragments of strong rock usually remain.

VERY SEVERE - All rock except quartz discolored or stained. Rock "fabric" discernible, but rock mass effectively reduced to "soil" with only fragments of strong rock remaining.

COMPLETE - Rock reduced to "soil." Rock "fabric" not discernible or discernible only in small scattered locations. Quartz may be present as dikes or stringers.

STRENGTH

VERY STRONG - Resists breakage from hammer blows; but will yield dust and small chips.
STRONG - Withstands a few hammer blows; but will yield large fragments.
MODERATELY STRONG - Withstands a few firm hammer blows.
WEAK - Crumbles with light hammer blows.
FRIABLE - Can be broken down with hand and finger pressure.
LOW - Soil-like strength

DISCONTINUITY SPACING

JOINTS	BEDDING, CLEAVAGE, FOLIATION		
CRUSHED	Very Laminated	Less than 1/2 inch	Less than 1.3 cm
INTENSELY	Laminated	1/2 to 1 inch	1.3 cm to 2.5 cm
VERY CLOSE	Very Thin	1 to 2 inches	2.5 cm to 5 cm
CLOSE	Thin	2 inches to 1 foot	5 cm to 30 cm
MODERATELY CLOSE	Medium	1 foot to 3 feet	30 cm to 1 m
WIDE	Thick	3 feet to 10 feet	1 m to 3 m
VERY WIDE	Very Thick	Greater than 10 feet	Greater than 3 m

HARDNESS

VERY HARD - Cannot be scratched with a knife; metal powder left on sample.
HARD - Scratched with knife with difficulty; trace of metal powder left on samples; scratch faintly visible.
MODERATELY HARD - Readily scratched with knife, scratch leaves heavy trace of dust and is readily visible.
LOW HARDNESS - Gouged or grooved to 1/16 inch by firm pressure on knife; scratches with penny.
SOFT - Gouged or grooved readily with a knife; small thin pieces can be grooved by finger pressure.
VERY SOFT - Carves with knife; scratched by fingernail.

ROUGHNESS OF DISCONTINUITY SURFACES

SMOOTH - Appears smooth and is essentially smooth to the touch. May be slickensided.
SLIGHTLY ROUGH - Asperities on the fracture are clearly visible.
MEDIUM ROUGH - Asperities are clearly visible and fracture surface feels abrasive.
ROUGH - Large angular asperities can be seen. Some ridge and high side angle steps are evident.
VERY ROUGH - Near vertical steps and ridges occur on the fracture surface.

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO ROCK CHARACTERISTICS

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	FIGURE NO.
155-90	**February 2020**	**A-2**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE	DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
CLAY (CL), reddish-brown, silty, with sand(fine- to medium-grained), trace gravel(fine, subangular to subrounded), with rootlets, dry.	very stiff		0		16	12	100	3.5	At 2 feet: Liquid Limit = 32% Plasticity Index = 14 Fine Gravel = 4% Coarse Sand = 4% Medium Sand = 6% Fine Sand = 12% Silt = 38% Clay = 36%
	hard				67				
Change color to mottled reddish-brown with black streaks, some sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), with sand clasts.	very stiff		5		23	18	109		
CLAY (CL), mottled brown, silty, with sand(fine- to medium-grained), with gravel(fine, subangular to subrounded), dry to damp.	hard								
With rock fragments.			10		68/11"				
SAND (SC), yellowish-brown, fine- to coarse-grained, with clay, some to with gravel(fine, subangular to subrounded), some silt, damp to moist. Some clay, damp.	dense		15		30/3"				
CLAY (CL), brown, silty, with sand(fine- to coarse-grained), damp.	hard		20		50/6"				
Bottom of Boring = 21 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.									

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-1**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), reddish-brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), with sand clasts, damp.	very stiff		0		16	19	104	6.3	
Change color to mottled reddish-brown and light brown, dry to damp.	hard				52				
			5		30/6"				
			10		30/4"				
SAND (SC), yellowish-brown, fine- to coarse-grained, some clay, trace silt, trace gravel(fine, subangular to subrounded), damp.	dense to very dense								
			15		50/6"				
Bottom of Boring = 16 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-2**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER 10 feet	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), brown, silty, some sand(fine- to coarse-grained), dry to damp.	very stiff		0		16	26	93	6.0	
					25				
CLAY (CL), mottled reddish-brown and light brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), damp.	very stiff		5		36	23	100	5.9	
CLAY (CL), yellowish-brown, silty, with sand(fine- to medium-grained), with carbonates, damp.	hard								
CLAY (CL), mottled olive and yellowish-brown, silty, some sand(fine- to coarse-grained), with rock fragments, damp to moist.	hard		10		53				
Thin lense of rock at 11 feet.									
SAND (SC), brown, fine- to coarse-grained, with clay, some silt, with rock fragments, moist to wet.	dense to very dense		15		50/6"				
Drilling refusal at 17 feet.									
Bottom of Boring = 17 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-3**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), yellowish-brown, silty, sandy(fine- to coarse-grained), dry.	hard		0						
GRAVEL (GM), drilling refusal.	dense				30/6" 50/2"				
Bottom of Boring = 2.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			5						
			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.

1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-4**

DRILL RIG Mobile B-24, CFA	SURFACE ELEVATION ---	LOGGED BY HP
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 4-inch	DATE DRILLED 08/19/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), yellowish-brown, silty, with sand(fine- to coarse-grained), some gravel(fine, subangular to subrounded), dry.	very stiff		0		30/6"	14	110	7.1	
With rock fragments.	hard				50/5"				
Change color to mottled reddish-brown and light brown, sandy(fine- to coarse-grained).			5		50/6"	11			
SAND (SM), yellowish-brown, fine- to medium-grained, silty, with gravel(fine, subangular to subrounded), trace clay, with rock fragments, dry to damp.	dense to very dense		10		50/6"	9			
GRAVEL (GM), drilling refusal.					50/6"				
Bottom of Boring = 12.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			15						
			20						

EXPLORATORY BORING LOG 155-90.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**SFB-5**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, sandy(fine-grained), some clay, dry.	soft		0						
SANDSTONE, mottled brown-black-gray, some clay coated surfaces, deeply to moderately weathered, low hardness, very closely fractured, chaotic fracture orientation, damp.	friable to moderately strong		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-1**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
CLAY (CL), brown, with silt, with sand(fine- to coarse-grained), trace gravel(fine to coarse, subangular to subrounded), damp.	stiff		0						Bag sample at 1-2 feet At 1-2 feet: Liquid Limit = 58% Plasticity Index = 39 Fine Gravel = 1% Coarse Sand = 3% Medium Sand = 6% Fine Sand = 10% Silt = 22% Clay = 58% Bag sample at 3 feet
GRAVEL (GM), mottled grayish-brown, fine to coarse, subangular to subrounded, sandy(fine- to coarse-grained), silty, damp.	medium dense		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-2**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, trace to some clay, trace sand(fine-grained), dry to damp.	soft		0						Bag sample at 1-3 feet
SANDSTONE, mottled dark brown, clay coated surfaces, deeply to moderately weathered, low hardness, very closely fractured, chaotic fracture orientation, damp.	friable to moderately strong		5						
Bottom of Boring = 5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-3**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SILT (ML), brown, some clay, trace sand(fine-grained), trace roots, dry.	soft		0						
CLAY (CL)/SILT (ML), mottled brown, some sand(fine- to coarse-grained), some gravel(fine to coarse, subangular to subrounded), with tree roots to 3', damp.	stiff								
Change color to reddish-brown, increasing clay content with depth.	very stiff		5						
Bottom of Boring = 6 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10						
			15						
			20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

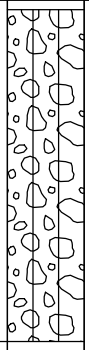
Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-4**

DRILL RIG CAT 430F2	SURFACE ELEVATION ---	LOGGED BY KF
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 24-inch	DATE DRILLED 08/26/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
GRAVEL (GM), reddish-brown, fine to coarse, subangular to subrounded, with sand(fine- to coarse-grained), with silt, some clay, trace cobbles, damp.	medium dense		0 5						
Bottom of Boring = 6 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			10 15 20						

EXPLORATORY BORING LOG 155-90 PITS.GPJ STEVENS FERRONE BAILEY.GDT 2/28/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

MITCHELL CANYON ROAD
Clayton, California

PROJECT NO.	DATE	BORING NO.
155-90	**February 2020**	**P-5**

APPENDIX B

Laboratory Investigation

APPENDIX B
Laboratory Investigation

Our laboratory testing program for the proposed residential subdivision development to be located west of Mitchell Canyon Road in Clayton, California was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site.

The natural water content was determined on nine samples of the subsurface soils. The water contents are recorded on the boring logs at the appropriate sample depths.

Dry density determination was performed on six samples of the subsurface soils to evaluate their physical properties. The results of the tests are shown on the boring logs at the appropriate sample depths.

Atterberg Limit determinations were performed on two samples of the subsurface soils to determine the range of water content over which these materials exhibit plasticity. These values are used to classify the soil in accordance with the Unified Soil Classification System and to indicate the soil's compressibility and expansion potentials. The results of these tests are presented on the boring and pit log at the appropriate sample depth and are also attached to this appendix.

Gradation and hydrometer tests were performed on two samples of the subsurface soils. These tests were performed to assist in the classification of the soils and to determine their grain size distribution. The results of the tests are presented on the boring and pit log at the appropriate sample depth and are also attached to this appendix.

Unconfined compression tests were performed on five relatively undisturbed samples of the subsurface soils to evaluate the undrained shear strengths of these materials. Failure was taken as the peak normal stress. The results of the tests are presented on the boring logs at the appropriate sample depths and are also attached to this appendix

Four onsite soil samples were tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in this appendix. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors.

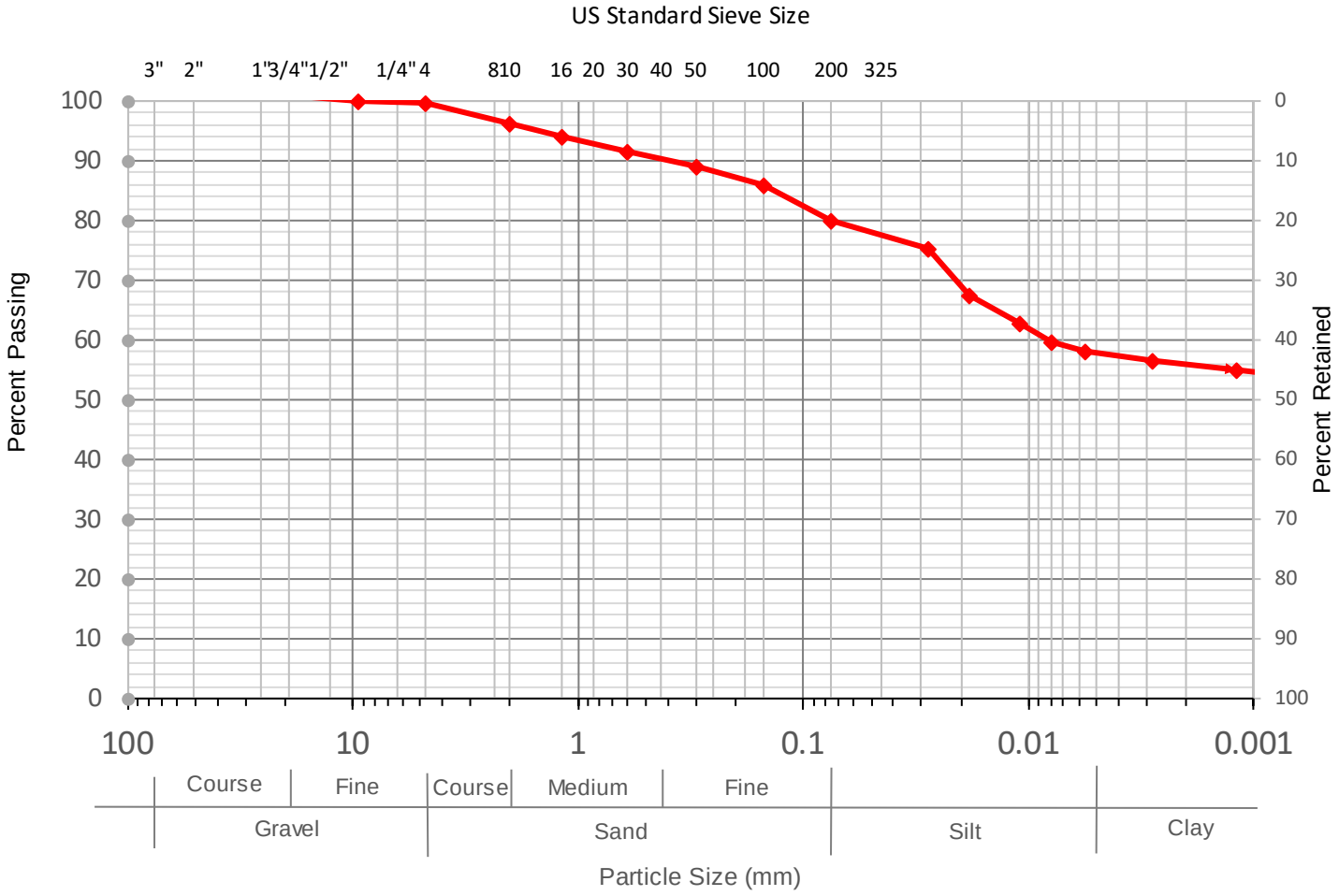
Stevens Ferrone & Bailey Engineering Company, Inc

Hydrometer Analysis – ASTM D422

Project Number: 155-90 **Project Name:** Mitchell Canyon

Sample Number: P-2 **Description:** Brown silty CLAY with sand (CH)

Depth : 1'-2' **Test Date:** 08-27-19 **Tested By:** R



Composite Sieve Data

Standard Sieve Size	Percent Passing
3"	
1.5"	
3/4"	
3/8"	100
#4	99.8
#10	96.3
#16	94.1
#30	91.4
#50	88.9
#100	85.8
#200	80.1

Particle Diameter (mm)	Percent Soil in Suspension
0.0280	75.4
0.0185	67.6
0.0110	62.8
0.0079	59.7
0.0056	58.1
0.0028	56.6
0.0012	55.0

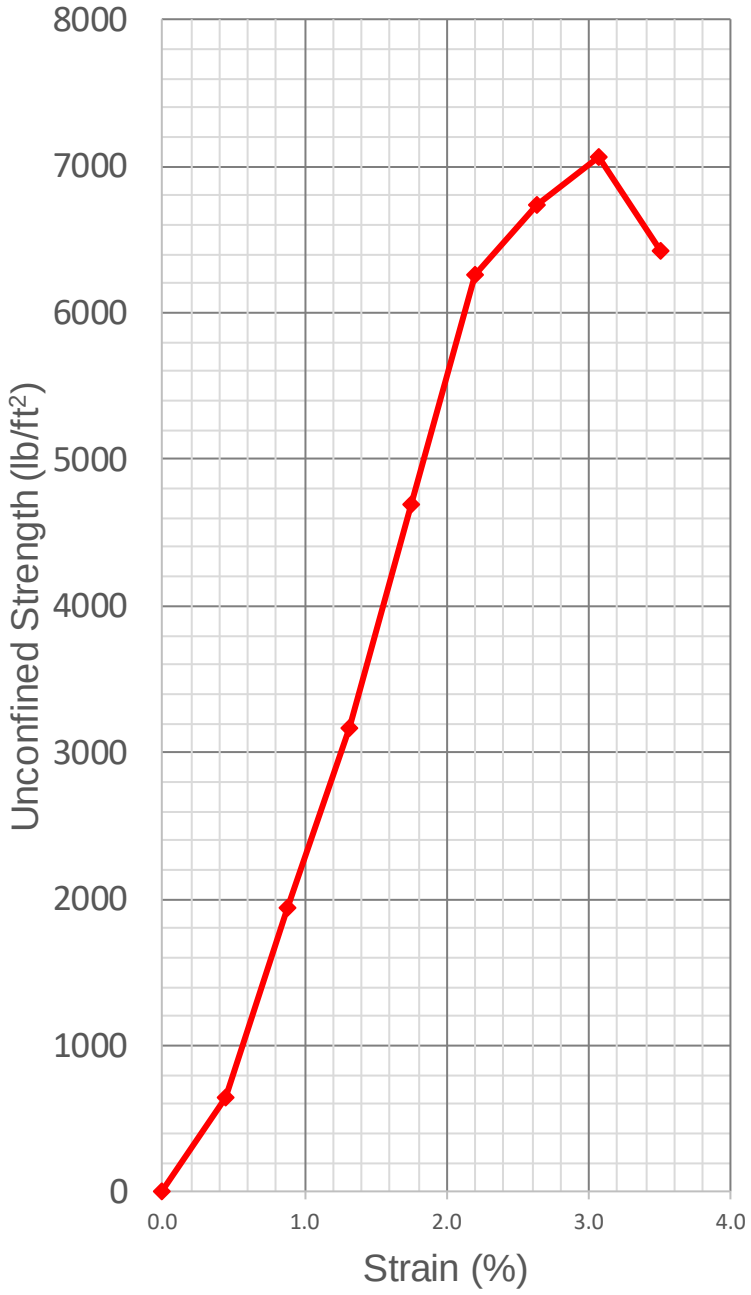
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-5 **Depth :** 1.5

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Red brown silty CLAY with sand and shale some gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.7 in
Volume	0.01517 ft^3
Water Content	14.1 %
Wet Density	125.0 pcf
Dry Density	109.6 pcf

Max Unconfined Compressive Strength	
Elapsed Time	3.5 min
Vertical Dial	0.175 in
Strain	3.1 %
Area	0.03296 ft^2
Axial Load	232.8 lbs
Compressive Strength	7,064 psf

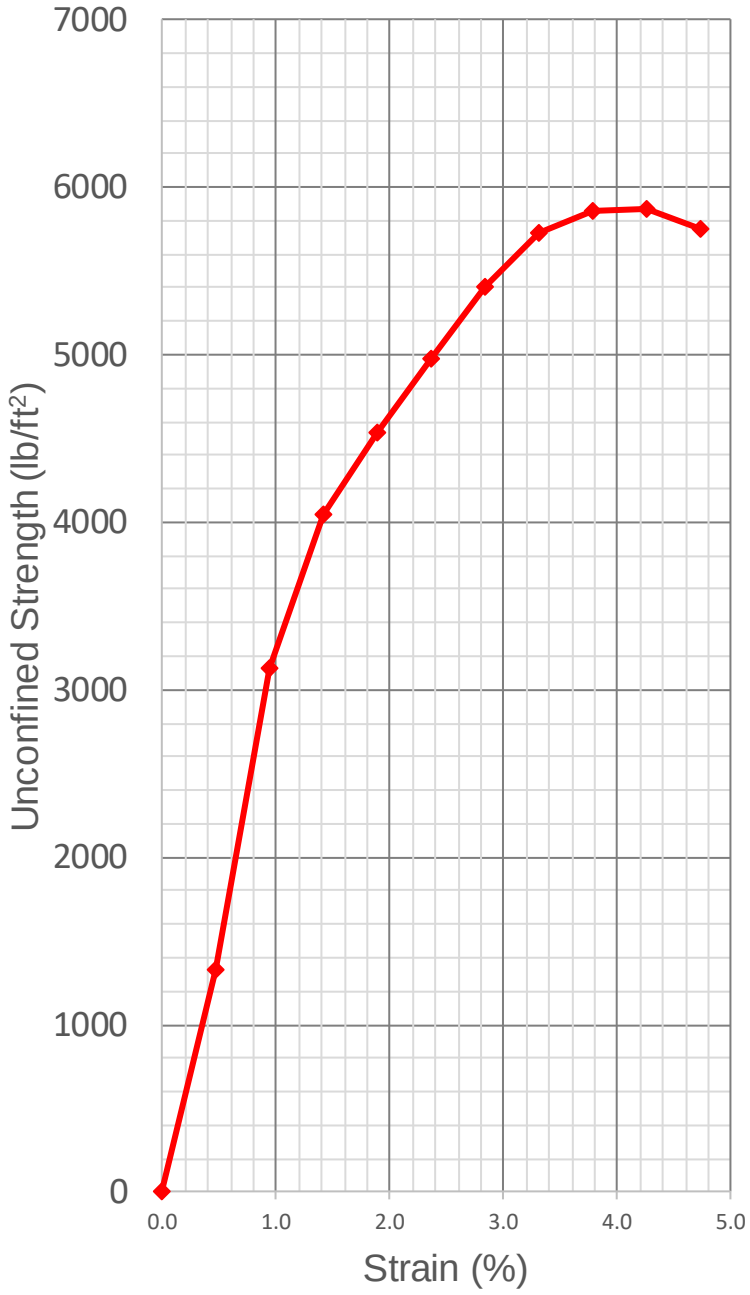
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-3 **Depth :** 6

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Brown silty CLAY with sand (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.29 in
Volume	0.01408 ft^3
Water Content	22.8 %
Wet Density	123.2 pcf
Dry Density	100.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	4.5 min
Vertical Dial	0.225 in
Strain	4.3 %
Area	0.03336 ft^2
Axial Load	196.0 lbs
Compressive Strength	5,875 psf

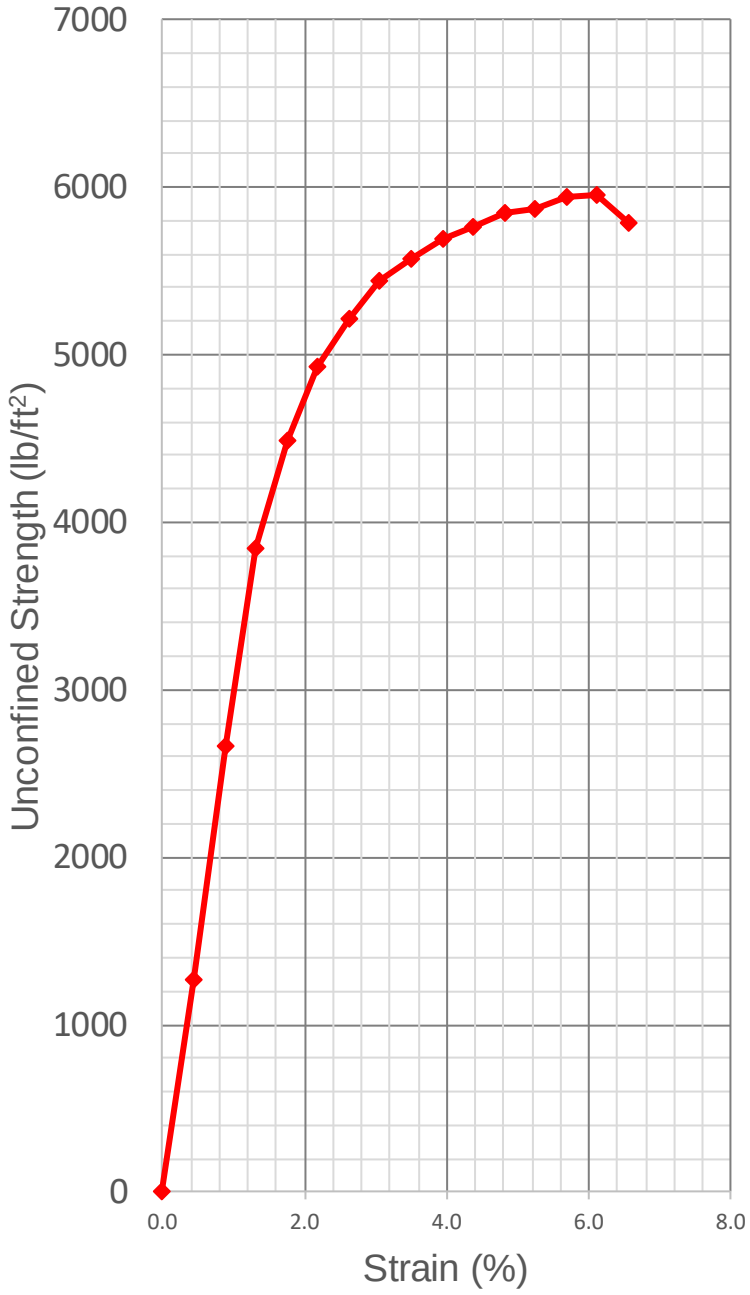
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-3 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Dark brown silty CLAY some sand (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.72 in
Volume	0.01523 ft^3
Water Content	26.1 %
Wet Density	116.6 pcf
Dry Density	92.5 pcf

Max Unconfined Compressive Strength	
Elapsed Time	7 min
Vertical Dial	0.35 in
Strain	6.1 %
Area	0.03403 ft^2
Axial Load	202.7 lbs
Compressive Strength	5,957 psf

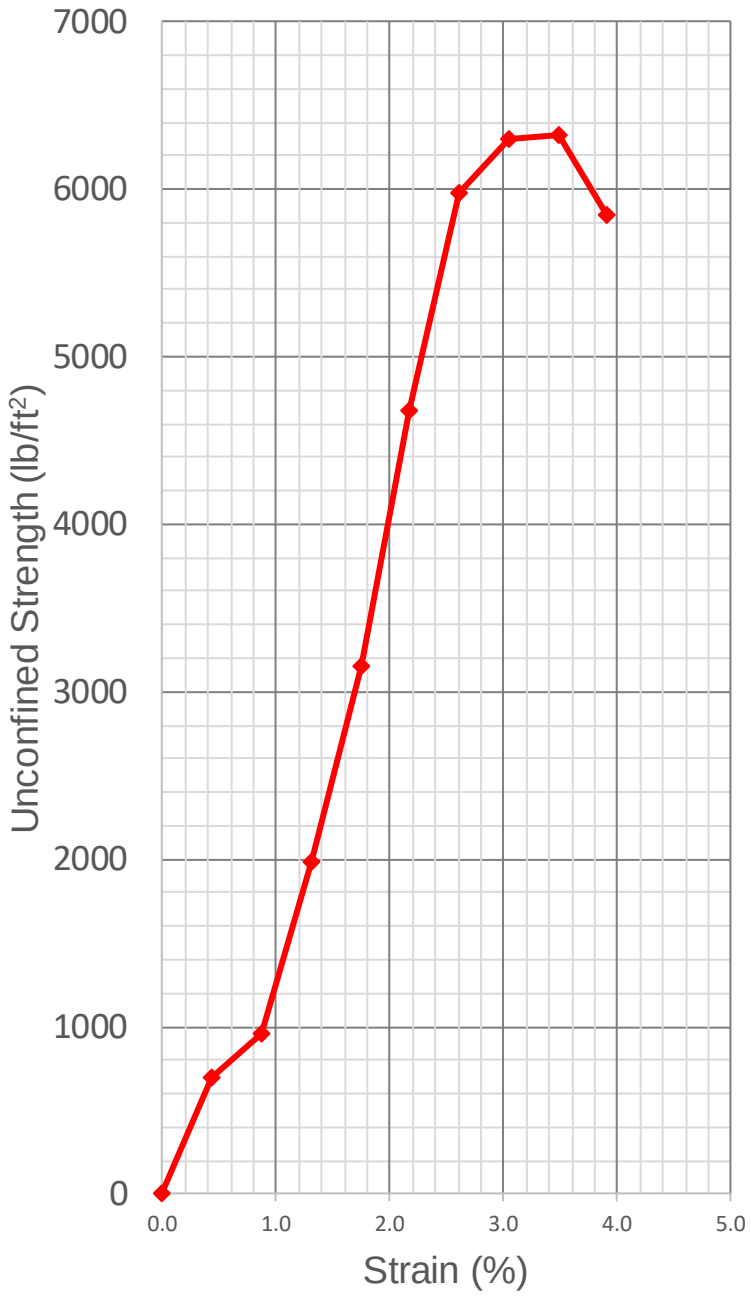
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-2 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/21/2019

Description: Red brown silty CLAY with sand some gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	5.75 in
Volume	0.01531 ft^3
Water Content	19.2 %
Wet Density	124.3 pcf
Dry Density	104.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	4 min
Vertical Dial	0.2 in
Strain	3.5 %
Area	0.03310 ft^2
Axial Load	209.4 lbs
Compressive Strength	6,327 psf

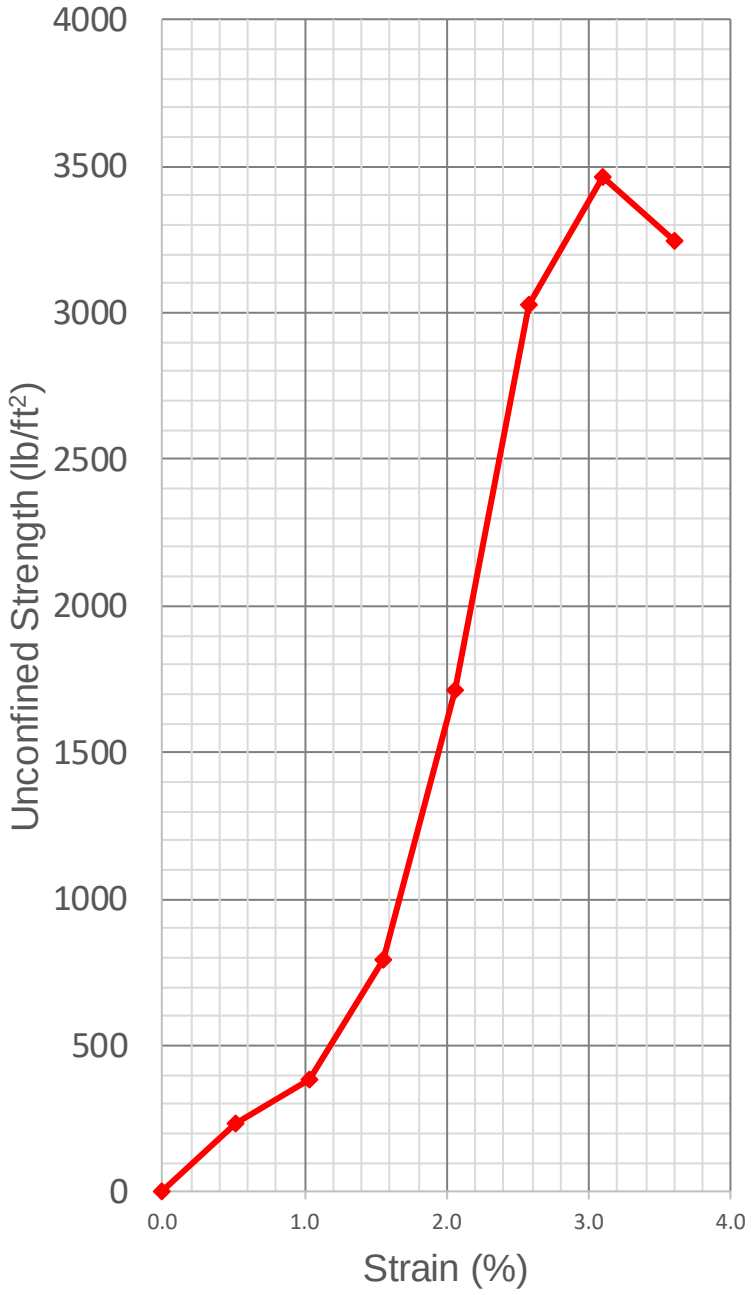
Stevens Ferrone & Bailey Engineering Company, Inc

UNCONFINED COMPRESSIVE STRENGTH – D2166

Project Number: 155-90 **Boring #:** SFB-1 **Depth :** 2

Project Name: Mitchell Canyon **Date:** 8/20/2019

Description: Red brown silty CLAY with sand trace gravel (CL) **Tested By:** R



Soil Specimen Initial Measurements	
Diameter	2.42 in
Initial Area	4.60 in^2
Initial Length	4.85 in
Volume	0.01291 ft^3
Water Content	12.4 %
Wet Density	112.7 pcf
Dry Density	100.3 pcf

Max Unconfined Compressive Strength	
Elapsed Time	3 min
Vertical Dial	0.15 in
Strain	3.1 %
Area	0.03296 ft^2
Axial Load	114.3 lbs
Compressive Strength	3,467 psf

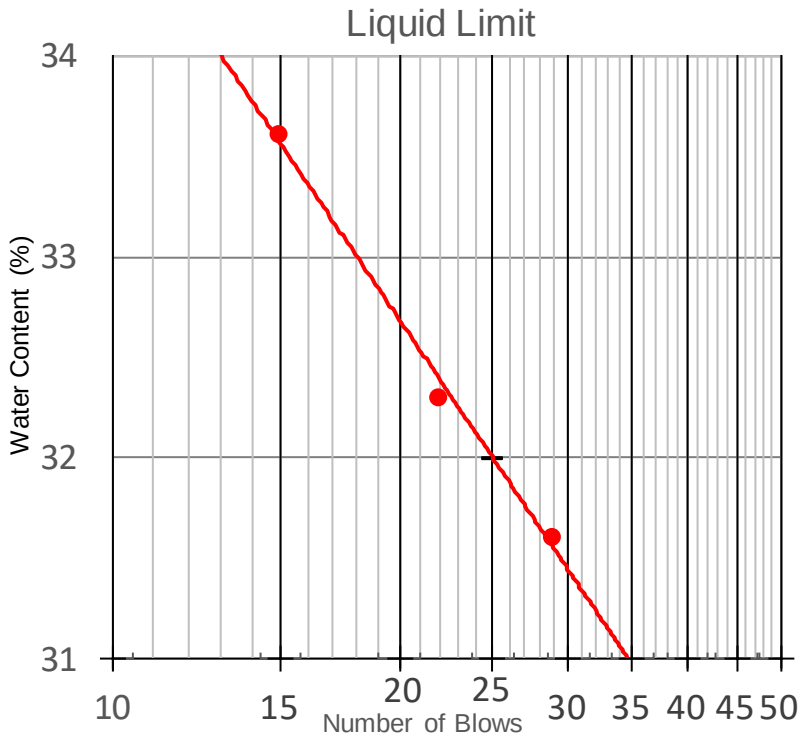
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 155-90 **Project Name:** Mitchell Canyon

Boring/Sample No: SFB-1 **Depth:** 2 **Date:** 08-22-19

Description of Sample: Red brown silty CLAY with sand trace gravel (CL) **Tested By** R

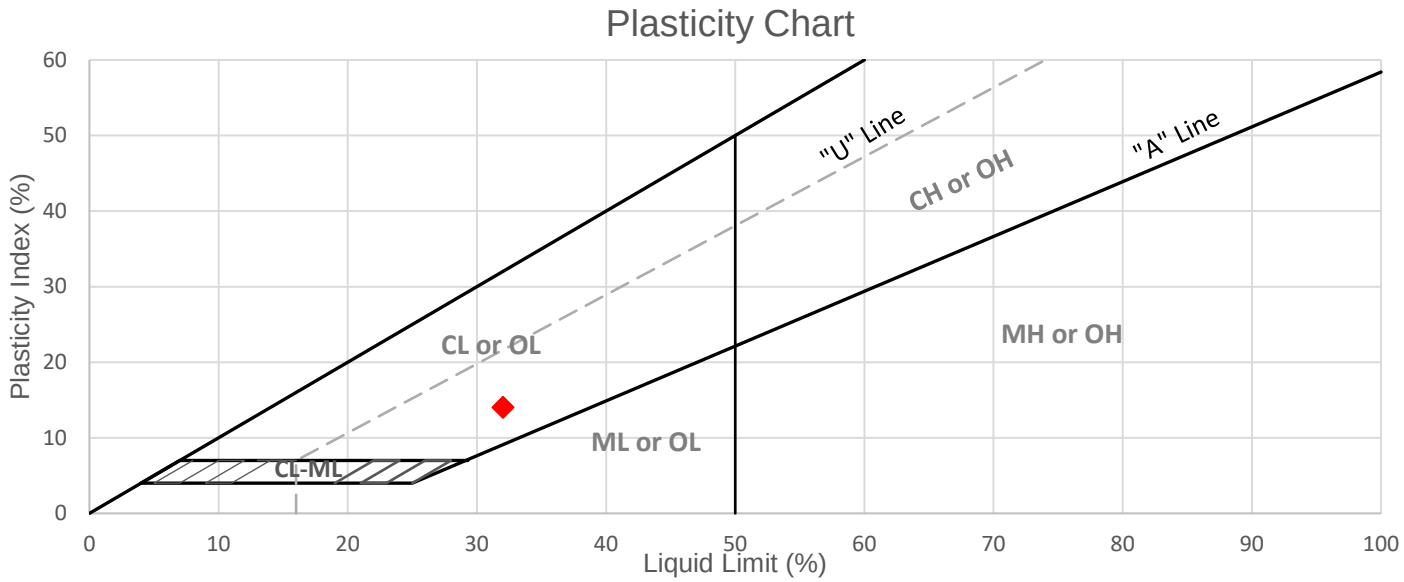


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	17.4	17.6	17.5

Data Summary

Liquid Limit	**32**
Plastic Limit	**18**
Plasticity Index	**14**
Natural Water Content	**12.4**
Liquidity Index	**-0.400**
% Passing #200 Sieve	**73.7**



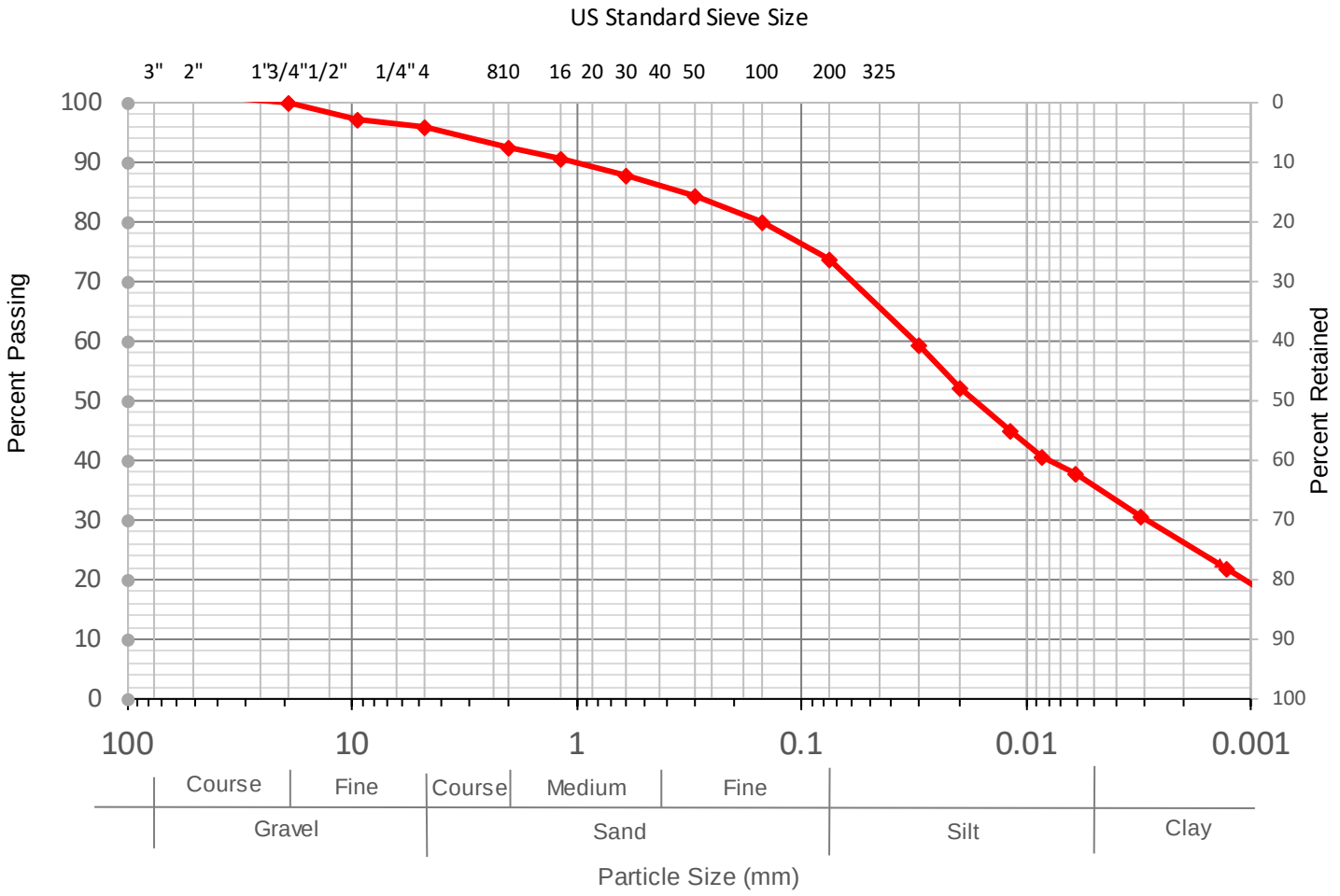
Stevens Ferrone & Bailey Engineering Company, Inc

Hydrometer Analysis – ASTM D422

Project Number: 155-90 **Project Name:** Mitchell Canyon

Sample Number: SFB-1 **Description:** Red brown silty CLAY with sand trace gravel (CL)

Depth : 1.5 **Test Date:** 08-21-19 **Tested By:** R



Composite Sieve Data

Standard Sieve Size	Percent Passing
3"	
1.5"	
3/4"	100.0
3/8"	97.0
#4	95.9
#10	92.5
#16	90.5
#30	87.7
#50	84.3
#100	79.9
#200	73.7

Particle Diameter (mm)	Percent Soil in Suspension
0.0299	59.5
0.0197	52.2
0.0118	45.0
0.0085	40.6
0.0061	37.7
0.0031	30.5
0.0013	21.8

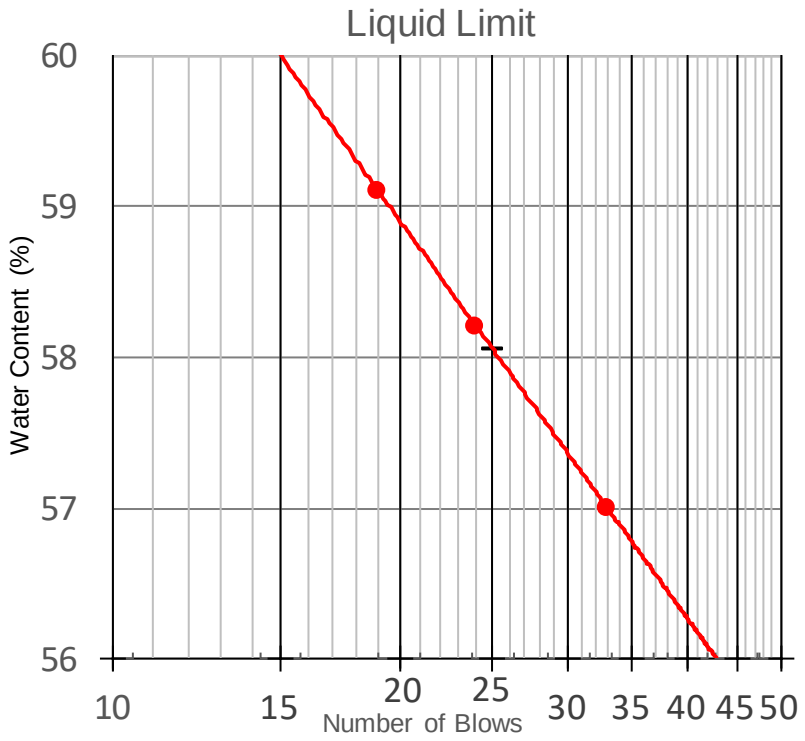
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 155-90 **Project Name:** Mitchell Canyon

Boring/Sample No: P-2 **Depth:** 1'-2' **Date:** 08-26-19

Description of Sample: Brown silty CLAY with sand (CH) **Tested By** R

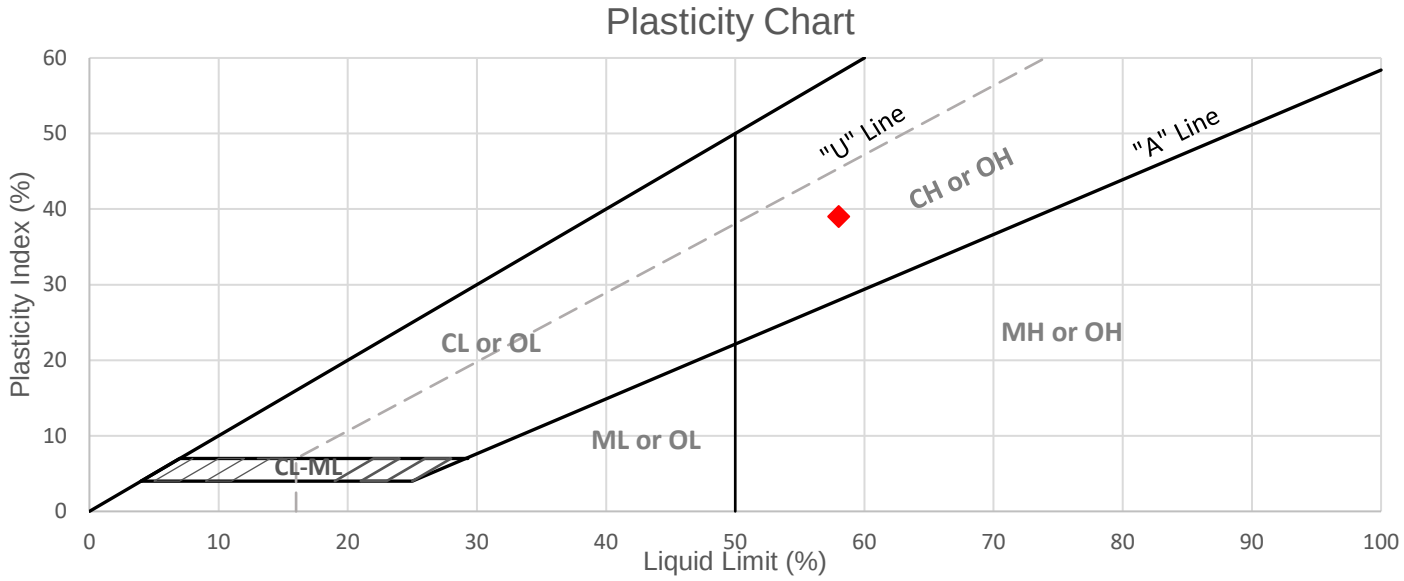


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	18.8	19.1	19.0

Data Summary

Liquid Limit	**58**
Plastic Limit	**19**
Plasticity Index	**39**
Natural Water Content	**20.7**
Liquidity Index	**0.044**
% Passing #200 Sieve	**80.1**



California State Certified Laboratory No. 2153

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

4 September, 2019

Job No.1908149
Cust. No.11486

Ms. Hayley Palilla
Stevens, Ferrone & Bailey
1600 Willow Pass Court
Concord, CA 94520

Subject: Project No.: SFB 143-4
Project Name: Mitchell Canyon Road, Clayton, CA
Corrosivity Analysis – ASTM Test Methods

Dear Ms. Palilla:

Pursuant to your request, CERCO Analytical has analyzed the soil samples submitted on August 20, 2019. Based on the analytical results, this brief corrosivity evaluation is enclosed for your consideration.

Based upon the resistivity measurements, Samples No.001 & No.004 are classified as "corrosive" and Samples No.002 & No.003 are classified as "moderately corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentrations are none detected & 57 mg/kg and determined to be insufficient to attack steel embedded in a concrete mortar coating.

The sulfate ion concentrations are none detected & 430 mg/kg and are determined to be sufficient to potentially be detrimental to reinforced concrete structures and cement mortar-coated steel at these locations. Therefore, concrete that comes into contact with this soil should use sulfate resistant cement such as Type II, with a maximum water-to-cement ratio of 0.55.

The sulfide ion concentrations reflect none detected with a reporting limit of 50 mg/kg.

The pH of the soils ranged from 6.75 to 7.97 which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potentials ranged from 250 to 300-mV. All samples are indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc. at (925) 927-6630.*

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.

J. Darby Howard, Jr., P.E.
President

JDH/jdl
Enclosure

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: Stevens, Ferrone & Bailey
Client's Project No.: 143-4
Client's Project Name: Mitchell Canyon Road, Clayton, CA
Date Sampled: 19-Aug-19
Date Received: 20-Aug-19
Matrix: Soil
Authorization: Signed Chain of Custody

Date of Report: 4-Sep-2019

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Conductivity (umhos/cm)*	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
1908149-001	SFB-1 @ 3.5'	250	6.76	-	1,400	N.D.	N.D.	N.D.
1908149-002	SFB-2 @ 3.5'	300	6.75	-	4,200	N.D.	N.D.	N.D.
1908149-003	SFB-3 @ 11'	280	7.36	-	3,100	N.D.	N.D.	N.D.
1908149-004	SFB-4 @ 1'	270	7.97	-	790	N.D.	57	430

Method:	ASTM D1498	ASTM D4972	ASTM D1125M	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	10	-	50	15	15
Date Analyzed:	29-Aug-2019	29-Aug-2019	-	4-Sep-2019	3-Sep-2019	3-Sep-2019	3-Sep-2019

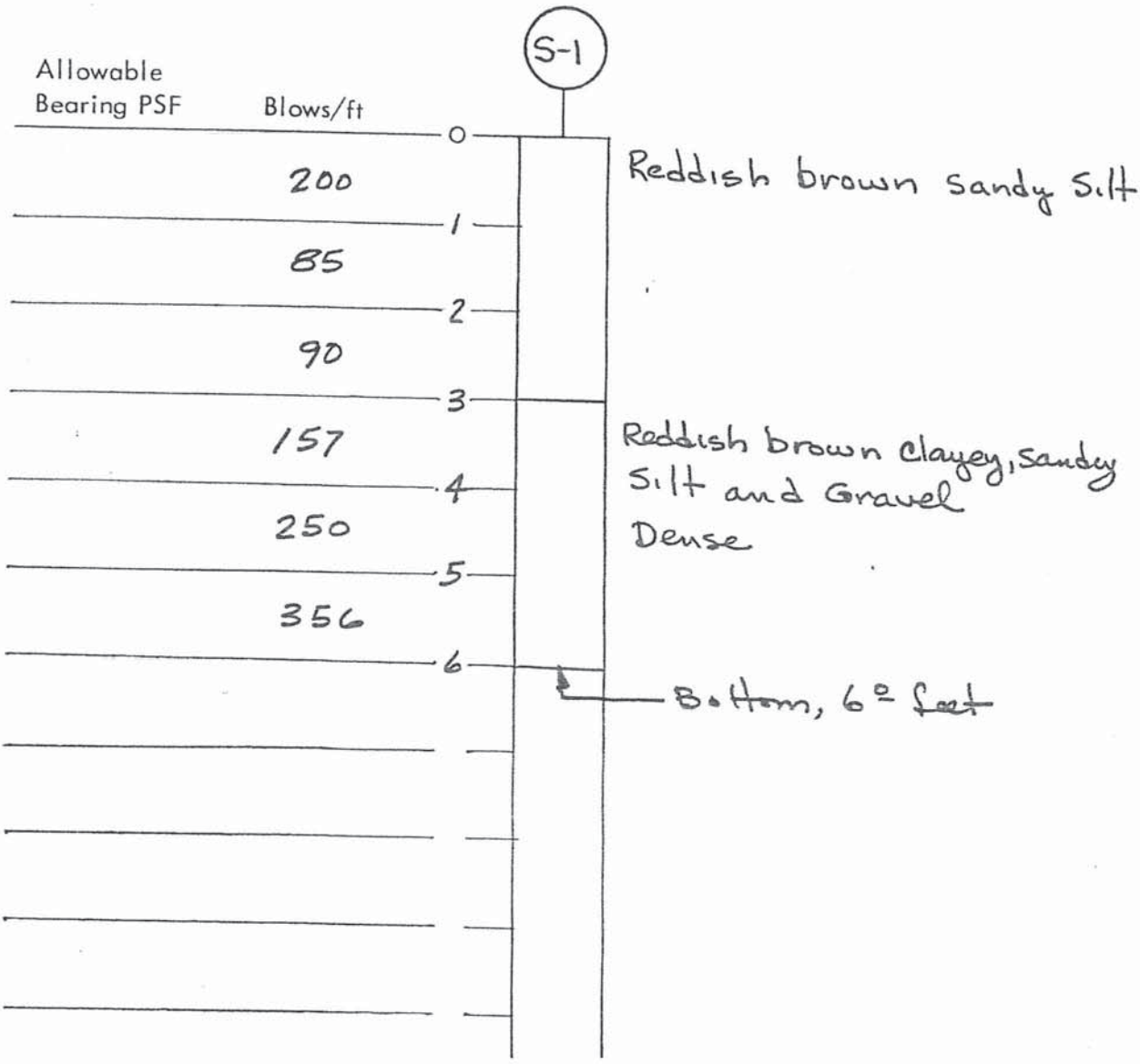
Cheryl McMillen
Laboratory Director

* Results Reported on "As Received" Basis
N.D. - None Detected

Quality Control Summary - All laboratory quality control parameters were found to be within established limits

APPENDIX C

Logs of Previous Borings by Others

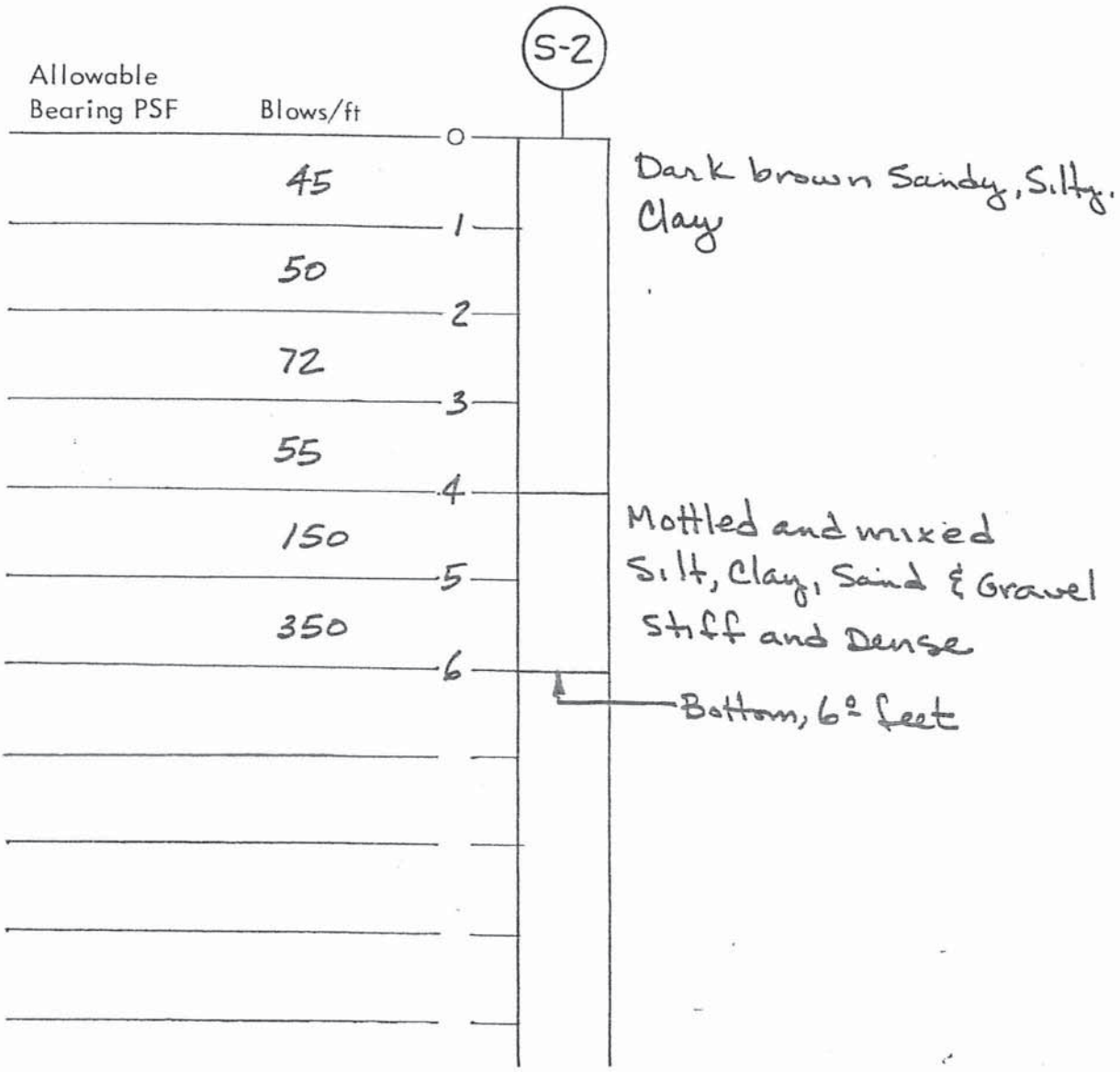


S borings taken with hand driven "porter-type" one inch sampler. Blow counts based upon 25 pounds falling 15 inches. Blow count is not the standard ASTM blow count ("N" value). For standard ASTM blow count, divide by five. (approximate only).

Location Mitchell Canyon Rd. Clayton
Job# 166-2
Drawn by ARS Date 7-13-76
Checked by ____ Date ____
Scale 1"=2'

LOG OF TEST BORINGS

ABEL R. SOARES and ASSOCIATES
soil engineers and geologists
3625 Pinole Valley Road 415-758-5651
Pinole, California 94564



S borings taken with hand driven "porter-type" one inch sampler. Blow counts based upon 25 pounds falling 15 inches. Blow count is not the standard ASTM blow count ("N" value). For standard ASTM blow count, divide by five. (approximate only).

Location Mitchell Canyon Rd. Clayton Job# 166-2 Drawn by ARS Date 7-13-76 Checked by ____ Date ____ Scale 1" = 2'	LOG OF TEST BORINGS	ABEL R. SOARES and ASSOCIATES soil engineers and geologists 3625 Pinole Valley Road 415-758-5651 Pinole, California 94564

APPENDIX D

ASFE Guidelines

Important Information about Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; ***none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.***

Rely on Your ASFE-Member Geotechnical Engineer for Additional Assistance

Membership in ASFE/The Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE THE GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@asfe.org www.asfe.org

Copyright 2004 by ASFE, Inc. Duplication, reproduction, or copying of this document, in whole or in part, by any means whatsoever, is strictly prohibited, except with ASFE's specific written permission. Excerpting, quoting, or otherwise extracting wording from this document is permitted only with the express written permission of ASFE, and only for purposes of scholarly research or book review. Only members of ASFE may use this document as a complement to or as an element of a geotechnical engineering report. Any other firm, individual, or other entity that so uses this document without being an ASFE member could be committing negligent or intentional (fraudulent) misrepresentation.

IIGER01115.0MRP

Appendix D
Phase I Environmental Site Assessment

Phase I Environmental Site Assessment
CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1, Clayton, California

24 February 2020
Project No. 20-4996

PREPARED FOR:

Mr. Trent Sanson
DeNOVA HOMES, INC.

PREPARED BY:

AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical
Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

Phase I Environmental Site Assessment
CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1, California

24 February 2020
Project No. 20-4996

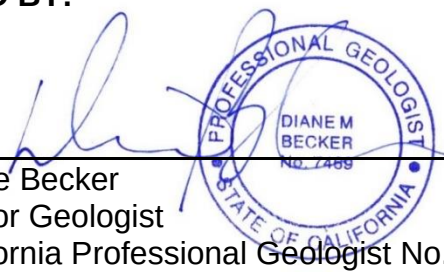
AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical

Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

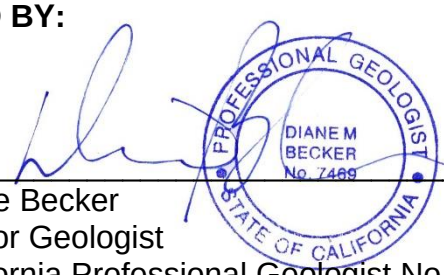
PREPARED BY:



Diane Becker
Senior Geologist
California Professional Geologist No. 7469

Timothy J. Cuellar
Senior Geologist

REVIEWED BY:



Diane Becker
Senior Geologist
California Professional Geologist No. 7469

TABLE OF CONTENTS

SECTION **PAGE**

EXECUTIVE SUMMARY..... 1
1.0. INTRODUCTION..... 3
1.1. PURPOSE..... 3
1.2. SITE DESCRIPTION..... 4
1.2.1. Location and Legal Description..... 4
1.2.2. Site and Vicinity General Characteristics..... 4
1.2.3. Current Use of Property..... 4
1.2.4. Proposed Use of Property..... 4
1.2.5. Property Utilities..... 4
1.3. DETAILED SCOPE-OF-SERVICES..... 5
1.4. SIGNIFICANT ASSUMPTIONS..... 5
1.5. LIMITATIONS AND EXCEPTIONS..... 5
1.6. SPECIAL TERMS AND CONDITIONS..... 6
1.7. USER RELIANCE..... 6
2.0. USER PROVIDED INFORMATION..... 6
3.0. RECORDS REVIEW..... 7
3.1. HISTORICAL USE INFORMATION..... 7
3.1.1. Historical Use Information on Subject Property..... 7
3.1.1.1. Sanborn Fire Insurance Maps..... 7
3.1.1.2. Aerial Photographs..... 7
3.1.1.3. Historical Topographic Maps..... 8
3.1.1.4. Street Directories..... 9
3.1.1.5. Building Department Records..... 9
3.1.1.6. Assessor's Records..... 9
3.1.1.7. Previous Phase I and II Environmental Site Assessments..... 9
3.1.2. Historical Use Information on Adjoining Properties..... 10
3.2. PHYSICAL SETTING..... 10
3.3. STANDARD ENVIRONMENTAL RECORD SOURCES..... 11
3.3.1. SUBJECT PROPERTY DATABASE SEARCH..... 11
3.3.2. SITE VICINITY DATABASE SEARCH..... 11
3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES..... 12
3.4.1. Additional Subject Property Record Sources..... 13
3.4.2. Additional Site Vicinity Record Sources..... 13
3.5. PROVIDED SUBJECT PROPERTY RECORDS..... 13
3.6. VOLATILE ORGANIC COMPOUND VAPOR ENCROACHMENT..... 13
4.0. SITE RECONNAISSANCE..... 13
4.1. METHODOLOGY AND LIMITING CONDITIONS..... 14
4.2. GENERAL SITE SETTING..... 14
4.3. EXTERIOR AND INTERIOR OBSERVATIONS..... 14

TABLE OF CONTENTS

SECTION **PAGE**

5.0. MATERIAL STORAGE..... 15
6.0. INTERVIEWS..... 15
7.0. BUSINESS ENVIRONMENTAL RISKS - NON-ASTM SERVICES..... 15
7.1. MOLD..... 15
7.2. ASBESTOS CONTAINING BUILDING MATERIALS..... 16
7.3. LEAD-BASED PAINT..... 16
7.4. RADON..... 16
7.5. WETLANDS..... 16
7.6. REGULATORY COMPLIANCE..... 17
8.0. EVALUATION..... 17
8.1. DATA GAPS AND LIMITATIONS..... 17
8.2. FINDINGS..... 17
8.2.1. Business Environmental Risk..... 17
8.2.2. De Minimis Conditions..... 17
8.2.3. Historical Recognized Environmental Conditions..... 18
8.2.4. Controlled Recognized Environmental Conditions..... 18
8.2.5. Recognized Environmental Conditions..... 18
9.0. CONCLUSIONS AND OPINION..... 18
10.0. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS..... 18
11.0. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS..... 18
12.0. REFERENCES..... 19

Figures

Figure 1 - Location Map
Figure 2 - Site Plan

Appendices

Appendix A - Photographs of the Subject Property
Appendix B - Historical Documents
Appendix C - Regulatory Records Documentation (with EDR Database Searches)
Appendix D - Interview Documentation
Appendix E - Miscellaneous Documents
Appendix F - Qualifications of the Environmental Professionals

EXECUTIVE SUMMARY

AdvancedGeo, Inc. (AGI) conducted this Phase I Environmental Site Assessment of the property identified as Contra Costa County Assessor Parcel Numbers (APNs) 121-090-011-2 and 121-090-016-1, Mitchell Canyon Road, Clayton, Contra Costa County, California (subject property or property) in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries 'AAI' (40 CFR Part 312).

PROPERTY USE

The subject property is located on the west side of Mitchell Canyon Road, in a residential area of Clayton, California. The subject property is comprised of two parcels (APN 121-090-011-2 and 121-090-016-1) totaling 8.65 acres. The property consists of vacant, undeveloped land that is covered by overgrown weeds and trees. The northwest section of the property contains a wood tool shed and a water well.

Based on a review of historical documents, the subject property has been undeveloped and utilized agriculturally since at least the 1939. By the early 1980s, the land was no longer used agriculturally and has been vacant and undeveloped through the present.

FINDINGS

Based on the standards set by ASTM Standard Practice E1527-13, a recognized environmental condition (REC) is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions. Conditions that are considered Business Environmental Risk include the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The following findings are differentiated below as Business Environmental Risks and *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs.

BUSINESS ENVIRONMENTAL RISKS

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property.

DE MINIMIS CONDITIONS

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property, except

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION

This assessment has revealed no evidence of HRECs in connection with the subject property, except

CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITION

This assessment has revealed no evidence of CRECs in connection with the subject property, except

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of RECs in connection with the subject property, except

CONCLUSIONS AND OPINION

AGI, Inc. has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at Mitchell Canyon Road, Clayton, California. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGI did not identify any REC's on the subject property during the course of the Phase I. AGI has no recommendations for additional investigations at the subject property at this time.

1.0. INTRODUCTION

AdvancedGeo, Inc. (AGI) has been retained by DeNova Homes to perform a Phase I Environmental Site Assessment (Phase I) of the property identified as Contra Costa County Assessor Parcels Numbers (APNs) 121-090-011-2 and 121-090-016-1, Mitchell Canyon Road , Clayton , Contra Costa County, California (hereafter referred to as subject property or property). The Phase I was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for 'All Appropriate Inquiries (AAI)' (40 CFR Part 312). The Phase I is designed to provide the Client (user) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

1.1. PURPOSE

The purpose of the Phase I is to identify and assess environmental characteristics of the subject property that could lead to liability in the event of ownership, that could have a potential impact on property value or that could impact the present or future use of the subject property.

The purpose of ASTM Standard Practice E1527-13 and USEPA AAI is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B). An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice (based on ASTM Practice E1527-13).

The goal of ASTM Standard Practice E1527-13 is to identify recognized environmental conditions (RECs) in connection with the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be de minimis, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

1.2. SITE DESCRIPTION

The subject property is located on the west side of Mitchell Canyon Road, in a residential area of Clayton, California. The subject property is comprised of two parcels (APN 121-090-011-2 and 121-090-016-1) totaling 8.65 acres. The property consists of vacant, undeveloped land that is covered by overgrown weeds and trees. The northwest section of the property contains a wood tool shed and a water well. Further property location descriptions, characteristics, improvements, and site vicinity characteristics are discussed below.

1.2.1. Location and Legal Description

The subject property location can be identified as the following:

Site Address(es)	None
Assessor's Parcel Number(s) (APN)	1) 121-090-011-2 2) 121-090-016-1
Property Owner	CLAYTON FRED B TRE ISOBE KAREN E
Land Use Type	1) MISCELLANEOUS 2) VACANT
Zoning	Not provided
Legal Description	1) POR NW QR SEC 14 T1N R1W 4.51 AC 2) POR NW QR SEC 14 T1N R1W 4.14 AC
Size of Property	1) 4.510-acres 2) 4.140-acres TOTAL 8.65-acres

The parcel map and owner information were provided by ParcelQuest/CD Data as a representation of current data downloaded monthly from the County Assessor's Office. Copies of the parcel map and the owner information are provided in Appendix B.

1.2.2. Site and Vicinity General Characteristics

The subject property is located within a residential area of the City of Clayton, Contra Costa County, California. Figure 1 shows the setting of the subject property (7.5 Minute United States Geological Survey [USGS] Topographic Series, Clayton, California). Photographs of the subject property are provided in Appendix A.

1.2.3. Current Use of Property

The property is currently undeveloped, vacant land.

1.2.4. Proposed Use of Property

It is AGI's understanding that the proposed future property use is residential.

1.2.5. Property Utilities

There are no current or historical utilities serving the subject property.

1.3. DETAILED SCOPE-OF-SERVICES

Except where identified in Section 8.1., the scope of work for this Phase I conforms to ASTM Standard Practice E1527-13 and the USEPA AAI (40 CFR Part 312). Any additional User requested scope of services are discussed in Section 7.0.

1.4. SIGNIFICANT ASSUMPTIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. Findings were based mainly upon examination of historical records, maps, aerial photographs and government agency lists, on a site reconnaissance visit, and on information obtained during personal interviews with persons of long term familiarity with the subject property as specified in ASTM E1527-13 and the USEPA AAI. Hazardous waste site lists presented in this report represents only a search of specific government records as listed below. AGI is aware additional government records may exist. It should be noted that government agencies often do not list all sites with environmental contamination or that the list could be inaccurate and/or incomplete.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites, are assumed based on geologic interpretations from available sources. AGI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.5. LIMITATIONS AND EXCEPTIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AGI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified as beyond the scope of an ASTM Phase I that may affect business environmental risks at a property include the following: asbestos-containing materials (ACMs); biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint (LBP); lead in drinking water; mold; radon; regulatory compliance; and wetlands. These environmental issues may warrant assessment based on the type of property or transaction, however, they are considered non-scope issues under ASTM Practice E1527-13. Any addition of non-scope items must be agreed upon between the user and AGI prior to initiation of the Phase I.

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and

information provided, and observations and conditions that existed on the date and time of the property visit.

1.6. SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions, agreed upon by the environmental professional, beyond the initial agreed upon scope of work, used in preparation of this report.

1.7. USER RELIANCE

Conclusions and recommendations in this report are based on findings regarding historical use of the site, and on features noted during the site reconnaissance. The absence of any potential gross contamination sources, historic or present, does not necessarily imply that the site is free of any contamination. This report only represents a 'due diligence' effort as to the current environmental status of the site. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

2.0. USER PROVIDED INFORMATION

According to the ASTM Standard E1527-13 and the USEPA AAI, in order to qualify for one of the Landowner Liability Protections (LLPs) to CERCLA liability offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the client (user) must provide to the environmental professional the following information (if available) in relation to the subject property:

Title Records	A review of Title Records was not requested by the user.
Environmental Liens or Activity and Use Limitations	An environmental lien or AUL's (activity and usage limitations) search was not requested by the user.
Specialized Knowledge	AGE was not provided any specialized knowledge by the user and does have not any specialized knowledge of this property outside of what is contained in this report. The property ownership and tenants as well as all individuals who were interviewed as part of this investigation, have not reported any specialized knowledge of this property outside of what is contained in this report.
Commonly Known or Reasonably Ascertainable Information	The user provided no commonly known or reasonably ascertainable information available within the local community about the subject property that is material to recognized environmental conditions in connection with the property.
Valuation Reduction for Environmental Issues	No property valuation reduction related to environmental issues or concerns was reported by the user.
Owner, Property Manager, and Occupant Information	No written or verbal communication with the property owner, manager and/or occupant revealed any information which suggested that there are currently or historically any recognized environmental conditions associated with the subject property not noted in this assessment.
Reason for Performing Phase I	Potential property transaction
Other	No modifications to the ASTM E1527-13 standard scope-of-services were requested by the user for special circumstances that might be encountered at the subject property. Any additional user requested scope of services are discussed in Section 7.0.

Failure to provide the above information could result in a determination that 'all appropriate inquiries' are not complete. Additional items should be collected, if available, and provided to AGI.

3.0. RECORDS REVIEW

The purpose of obtaining and reviewing subject property and site vicinity historical, physical setting, and regulatory records is to help identify *recognized environmental conditions* in connection with the subject property.

3.1. HISTORICAL USE INFORMATION

The objective of consulting historical sources for a Phase I is to develop a history of previous uses of the property and surrounding area to help identify the likelihood of past uses having led to recognized environmental conditions with respect to the property. All obvious uses shall be identified from the present to the property's first obvious developed use, or back to 1940, whichever is earlier. Review of standard sources at less than five year intervals is not required.

3.1.1. Historical Use Information on Subject Property

Subject property history was researched by reviewing historical Sanborn Fire Insurance Maps (no coverage), aerial photographs, topographic maps, telephone directory information, the Building Dept name records, and the Contra Costa County Assessor's Office records.

Based on a review of historical documents, the subject property has been undeveloped and utilized agriculturally since at least the 1939. By the early 1980s, the land was no longer used agriculturally and has been vacant and undeveloped through the present.

In summary, review of the historical documents revealed no features on the subject property of environmental concern. Representative historical records are provided within Appendix B.

3.1.1.1. Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas but are now utilized as a valuable source of historical and environmental risk information. EDR owns the largest collection of Sanborn Fire Insurance Maps. AGI requested EDR to provide any Sanborn Fire Insurance Maps that might cover the subject property. Sanborn map coverage was not available for the subject property.

A review of historical Sanborn Fire Insurance Maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.2. Aerial Photographs

AGI reviewed aerial photographs of the subject property and surrounding area that were provided by EDR as well reviewed online (Google Earth) for the years 1939, 1946, 1949, 1950, 1958, 1963, 1966, 1979, 1982, 1993, 1998, 2006, 2009, 2012 and 2016. The following is a summary of our review of the aerial photographs:

Year(s)	Subject Property	Surrounding Area
1938	Northeast area of property appears to be developed agriculturally with an orchard.	Mitchell Canyon Road is visible adjacent to the east of the northeast area of the property. orchards are visible to the north and south of the eastern portion of the

Year(s)	Subject Property	Surrounding Area
		property. Adjacent properties to the west and south are undeveloped. .
1946, 1949, 1950, 1958	The majority of the property is developed with an orchard.	Similar to previous photograph with some additional agricultural development visible in the surrounding area.
1963	Much of the orchard previously visible is no longer present. Only remnants of the orchard are visible.	Residential development is visible beyond Mitchell Canyon Road to the east. The remaining adjacent properties appear similar to the previous photograph.
1966	Similar to previous photograph. No significant changes are apparent.	Residential development is visible adjacent to the south, southeast and to the east beyond Mitchell Canyon Road. Areas to the west, north and southwest appear similar to the previous photograph.
1979, 1982	Similar to previous photograph.	Similar to previous photograph with residential development now visible to the west and north.
1993, 1998	Similar to previous photograph except a very small shed is visible in the central area of the property. with the orchard remnants becoming less visible.	An increase in residential development is now visible to the west and north. The remaining adjacent properties appear similar to the previous photograph. A significant increase in residential development is visible in the surrounding area. The surrounding area
2006, 2009, 2012, 2016	Similar to previous photographs. No significant changes are visible.	Similar to previous photographs. No significant changes are visible.

A review of historical aerial photographs did not reveal any items of environmental concern in connection with the subject property.

3.1.1.3. Historical Topographic Maps

AGI reviewed historical topographic maps of the subject property and surrounding area that were supplied by EDR for the years 1896, 1898, 1912, 1943, 1953, 1968, 1973, 1980, 1994 and 2012. The following is a summary of our review of the topographic maps:

Year(s)	Subject Property	Surrounding Area
1896, 1898	Mapped in an undeveloped area southwest of the city of Clayton. No roads or property use features are mapped on the property.	Undeveloped land. No property use features are mapped.
1912, 1943	Undeveloped land. No property use features are mapped.	A road in the location of current day Mitchell Canyon Road is mapped adjacent to the east and beyond agricultural use is mapped. No property use features are mapped to the north, south and west.
1953	The northeastern portion of the property is mapped as agricultural use with the remainder of the property undeveloped.	Agricultural use is mapped adjacent to the north and southeast and beyond Mitchell Canyon Road to the east. .
1968	Undeveloped land. No property use features are mapped.	Adjacent properties to the east beyond Mitchell Canyon Road and to the southeast are mapped with urban tint and residential development. The adjacent property to the north is mapped with small small building footprint and the adjacent property to the west is undeveloped.

Year(s)	Subject Property	Surrounding Area
1973	The northeastern portion of the property is mapped as agricultural, the remainder of the property is not mapped with any property use features.	Similar to previous map. No significant changes re mapped.
1980, 1994	Undeveloped land. No property use features are mapped.	Similar to previous map except residential development is now mapped adjacent to the northeaster and west
2012	No property use features are mapped.	No property use features are mapped. except additional small roads indicative of residential development..

A review of historical topographic maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.4. Street Directories

AGI requested that EDR provide a review of city and street directories to determine the occupancy history of the property. However, no address is associated with the property.

3.1.1.5. Building Department Records

Since no address is associated with the property, the Clayton Building Department was unable to provide any building permit records.

3.1.1.6. Assessor's Records

A review of Contra Costa County Assessor's records was not conducted since the property owners permission could not be obtained to review records.

3.1.1.7. Previous Phase I and II Environmental Site Assessments

Previous Phase I and II Environmental Site Assessments were provided to AGI by the user and/or property owner during the course of this Phase I and included the following:

Phase I Environmental Site Assessment, AEI, August 2019

At the time of the Phase I report, the property was undeveloped land except for a small shed located in the northwestern area of the site. AEI identified Other Environmental Conditions (OECs) were identified at the property including a potential that agricultural chemicals such as pesticides, herbicides and fertilizers were used on site, based on the past agricultural use. AEI also indicated that the City of Clayton Planning Department does not have explicit soil sampling requirements for residential development. Therefore, AEI recommended soil sampling be conducted to determine if the property had been significantly impacted by the past agricultural use.

Limited Soil Sample Investigation, September 2019

Based on the finding of the Phase I report completed in August 2019, to screen for the presence of agricultural chemicals that may be present due to the past agricultural sue of the property. Several soil samples were collected across the property and analyzed for organochlorine pesticides (OCPs), metals and petroleum hydrocarbons. Findings from the investigation indicated arsenic was detected in five of the soil samples at

concentrations above the residential Environmental Screening Level but are below the typical background concentrations. Lead was detected five of the soil samples at background concentrations. The soil sample analyzed for metal contained various metals well below at background concentrations. TPH as gasoline, diesel, and oil were detected in the same sample at very low concentrations (below their respective Environmental Screening Levels (ESLs). OCPs were not detected above the laboratory reporting limits in any of the soil samples collected. AEI indicated no further investigation was warranted relative to OCPs, metals, or TPH in shallow soils at the site.

3.1.2. Historical Use Information on Adjoining Properties

Historical use of immediately adjoining properties was undeveloped or agricultural until the mid 1960s when residential development began to the southeast. By the 1970s, increased residential development occurred to the west. By the early 1990s, residential development had occurred to the north. The area to the south fo the western portion of the property has remained undeveloped.

Historical uses of adjoining properties do not appear to be of environmental concern to the subject property.

3.2. PHYSICAL SETTING

Geology	The subject property is situated within the Coast Ranges Geomorphic Province of California, which is characterized by nearly parallel northwest-trending ridges interspersed with alluvium-filled valleys. Terraces and alluvial fans border the ridges of the Coast Ranges before they hit the San Francisco, San Pablo, and Suisun Bays and merge into tidal flats along the bay margins. The Coast Ranges were structurally formed by faulting and folding of the Farallon and North American plates, recorded by rocks of the Franciscan Complex of Cretaceous and Jurassic age (100 to 65 million years old). This geomorphic province contains coastal foothills and mountains and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. Western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.
Hydrology	The subject property lies within the Clayton Valley Subbasin (2-005). The Clayton Valley Groundwater Basin is located in northern Contra Costa County along the south shore of Suisun Bay. The basin is about 40 miles northeast of San Francisco. It is bounded by Suisun Bay on the north, Mt Diablo Creek on the east, the Concord Fault on the west, which divides this separates this basin from the Ygnacio Valley groundwater basin, and the foothills of Mount Diablo on the south. The cities of Concord and Clayton overlie the Clayton Valley Basin. Clayton Valley is underlain by thick alluvial deposits which cover a faulted and folded complex of consolidated Cretaceous and Tertairy rocks. The water bearing units in the basin can be found in the Recent alluvium and the older alluvium valley fill deposits. The combined thickness of these deposits exceeds 700 feet. Aquifers in the basin area are hydrologically connected to Suisun Bay (DWR 1975). Depth to groundwater in the vicinity of the site is greater than 50 feet below surface grade (bsg) based on data from a nearby site at 2484 Pine Hollow Road, obtained from the State of California's Geotracker database.
Topography	The property is located at an elevation of approximately 493 feet above mean sea level (MSL), in an area of moderate topographic relief. Regional slope of the area is toward the general east-northeast.
Surface Soils	EDR provides a report listing dominant soil composition in the general area of the subject property based on information from the United States Department of Agriculture's Soil Conservation Service STATSGO (State Soil Geographic Database) soil maps. Soil surface texture at the subject property consists of soil identified as PERKINS, a gravelly loam and GILROY a clay loam, both in the Class C

Surface Soils	Hydrogeologic Group which includes slow infiltration rates. Corrosion potential of this soil for uncoated steel is moderate.
Surface Water Features	There are no surface water features on the subject property. The nearest surface water feature in the vicinity of the subject property is Mitchell Creek, located approximately 450 feet to the east.
Flood Zone	The EDR database report shows that the subject property is not located within either a Special Flood Zone Hazard Area (1%) or a 0.2% Annual Chance Flood Zone. This data, available in select counties across the country, was obtained by EDR from the Federal Emergency Management Agency (FEMA) which has maps depicting FEMA-defined 100-year and 500-year flood zones.
Wetlands	The EDR database report shows that the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

3.3. STANDARD ENVIRONMENTAL RECORD SOURCES

A computer search of federal, state and regional regulatory agency databases was performed by Environmental Data Resources Inc. (EDR), a data retrieval company, to identify and locate properties in areas of concern that have been reported as sites known or suspected to contain underground storage tanks, or to have been the scene of hazardous materials spills. Additionally, sites permitted to manufacture, utilize, generate, store, treat or dispose of hazardous materials and/or hazardous wastes are identified and located. A list and description of databases investigated, in compliance with ASTM E1527-13 and USEPA AAI, is included in EDR Report provided in Appendix C.

3.3.1. SUBJECT PROPERTY DATABASE SEARCH

The property location on Mitchell Canyon Road, Clayton, California, was not identified on any governmental databases within the EDR Report.

3.3.2. SITE VICINITY DATABASE SEARCH

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

AGI retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix C. The following information was obtained:

AGI's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, AGI considered the following:

- The type of database on which the site is identified;
- The topographic position of the identified site relative to the subject property;
- The direction and distance of the identified site from the subject property;
- Local soil conditions in the subject property area;

- The known or inferred groundwater flow direction in the subject property area;
- The status of the respective regulatory agency-required investigation(s) of the identified site (if any); and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches located between the identified site and the subject property.

No sites were identified on the EDR database report listed on the regulatory database report that were judged to present a potential environmental risk to the subject property.

3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES

In addition to the EDR computer search of federal, state and regional regulatory agency databases, AGI contacted appropriate regulatory agencies to review records regarding the property and surrounding sites identified as having recognized environmental conditions that have the potential to impact the subject property based on ground water flow direction, distance from the subject property and nature of the releases causing the environmental condition.

Additional agency searches include the following:

- Contra Costa County Environmental Health Department (CCCEHD) and the San Francisco Bay Regional Water Quality Control Board [Example: Central Valley Regional Water Quality Control Board] (Regional Board) maintain records of industrial violations for this area and are the lead agencies for the enforcement of the State Underground Storage Tank and Hazardous Waste Laws for Contra Costa County. AGI requested to review any files that were available.
- The Regional Board also maintains and online computer database, GeoTracker, that provides listings of closed and active sites related to unauthorized releases of hydrocarbons as well as solvents, metals, and other materials. For listed sites, online reports are commonly available. AGI reviewed the GeoTracker database for information that may be available for the subject property or surrounding sites.
- The California Department of Toxic Substances Control (DTSC) is the State of California agency responsible for oversight of hazardous waste regulations, cleanup of existing contamination, pollution prevention and reduction in hazardous waste and toxic materials and identification of potential new pollutants. The DTSC maintains the EnviroStor Data Management System (ENVIROSTOR) which allows for the search for information on investigation, cleanup, permitting and/or corrective actions that are planned, being conducted or have been completed under DTSC oversight. AGI reviewed the ENVIROSTOR database for any information that may be available.
- The United States Environmental Protection Agency (USEPA) provides an online computer database, ENVIROFACTS, providing lists of sites listed on multiple USEPA databases. AGI reviewed the ENVIROFACTS database for any information that may be available.
- The Geologic Energy Management Division's (CalGEM) online mapping application presents California’s oil and gas industry information from the geographic perspective. AGI reviewed the CalGEM well database for information that may be available for the subject property or surrounding sites.

3.4.1. Additional Subject Property Record Sources

The subject property address was searched on the following record sources:

SOURCE	SUMMARY
Regional Board & GeoTracker database	Property location was not identified on the GeoTracker database and did not have any records on-file with the Regional Board.
DTSC & ENVIROSTOR database	Property location was not identified on the ENVIROSTOR database and did not have any records on-file with the DTSC.
USEPA ENVIROFACTS	Property location was not identified on the ENVIROFACTs database.
CCCEHD	Property location was not identified as having records on-file with the CCCEHD.
CalGEM Well Finder	According to the CalGEM Well Finder, no oil and/or gas wells are located in the vicinity of the subject property.

3.4.2. Additional Site Vicinity Record Sources

The CCCEHD and Regional Board maintain records for, and are responsible for, enforcement of state UST and hazardous waste laws. AGI commonly reviews files for up-gradient sites under active environmental regulation to ascertain the current site status and its potential to impact the subject property. No sites, under active or past environmental regulation, were identified by the database search within the required search radius of potential concern to the property.

3.5. PROVIDED SUBJECT PROPERTY RECORDS

No records were provided to AGI by the user and/or property owner during the course of this Phase I with the exception of the Phase I and Limited Soil Sampling investigations discussed above is Section 3.11.7.

3.6. VOLATILE ORGANIC COMPOUND VAPOR ENCROACHMENT

The encroachment of hydrocarbon and volatile organic compound (VOC) vapors into soil pore space occurs when organic chemicals migrate from contaminated groundwater or soil into the airspace between soil particles. Some typical organics involved are petroleum based or chlorinated solvents (e.g, BTEX and dry cleaning chemicals). They may have leaked into the groundwater and/or soil from underground storage tanks, or buried waste, or from disposal in septic systems.

In compliance with ASTM Standard E2600-15 (Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions), AGI evaluated the potential for a Vapor Encroachment Condition (VEC) at the subject property. Based on a VEC screening, it was determined that ‘a VEC does not exist’ at the property. A copy of the AGI-generated Tier 1 VEC screening form is provided within Appendix E.

4.0. SITE RECONNAISSANCE

A subject property site reconnaissance was conducted by an AGI representative on 20 February 2020. At the time of the site visit the weather was clear and warm. Primary features of the property are shown in a site plan provided in Figure 2. Photographs of selected features of the subject site are included in Appendix A.

4.1. METHODOLOGY AND LIMITING CONDITIONS

The property was fully accessible during the site reconnaissance. No limiting conditions were noted except for the tool shed (northern parcel) being locked.

4.2. GENERAL SITE SETTING

The following is a description of the subject property:

- The subject property is located on the west side of Mitchell Canyon Road, in a residential area of Clayton, California. The subject property is comprised of two parcels (APN 121-090-011-2 and 121-090-016-1) totaling 8.65 acres.
- The majority of the subject property consists of vacant, undeveloped land that is covered by overgrown weeds and trees. The northwest section of the property contains a wood tool shed and a water well.

The following is a description of the property improvements:

Structures	An approximate 10 foot by 20 foot wood shed was observed in the northern parcel. No other structure were observed at the subject property.
Adjoining / Access / Egress Roads	Access to the subject property is through drive-way gate on Mitchell Canyon Road.
Surface Types	Undeveloped land with vegetation and trees.
Additional Features	A water well was observed in the northern parcel near the tool shed.
Surface Water	No surface water features observed at the subject property.

At the time of the site reconnaissance, current uses of adjacent properties included the following:

North	Residential
South	Undeveloped
East	Residential
West	Residential

Current uses of the adjoining properties do not appear to be of potential environmental concern to the subject property.

4.3. EXTERIOR AND INTERIOR OBSERVATIONS

The following was observed at the time of the property reconnaissance:

OBSERVED	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
No	Pits, ponds or lagoons with respect to waste treatment or disposal
No	Stained soil or pavement, patched pavement
No	Stressed vegetation (from causes other than insufficient water)
No	Fill dirt from unknown source, or contaminated source
No	Solid waste (mounds or depressions suggesting waste disposal)
No	Waste water / storm water discharged into a drain, ditch or stream
Yes	Wells (abandoned, irrigation, domestic, monitoring or oil and gas) - One water well was observed in the northern parcel.
No	Dry wells
No	Septic systems or cesspools
No	Movement of hazardous materials to adjacent properties
No	Hazardous substances and/or petroleum products
No	Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances

OBSERVED	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
No	Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances
No	Strong, pungent or noxious odors
No	Pools of liquid (other than water)
No	55-gallon drum or large sack storage
No	Unidentified substance containers
No	Stains and/or corrosion on floors, walls or ceiling (except water)
No	Drains and sumps
No	Oil-water separator/clarifier
No	Electrical or hydraulic equipment known to contain PCBs
No	Obvious signs of possible ACMs
No	Obvious signs of mold
No	Other areas of environmental concern

5.0. MATERIAL STORAGE

No current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, tanks, drums, storage lockers, silos) of 55 gallons or more for individual containers, or 100 gallons in aggregate for smaller containers, were observed on the subject property or have been historically utilized on the property.

6.0. INTERVIEWS

AGE forwarded an ASTM -compliant questionnaire to the property owner for completion, however the completed questionnaire has not been received as of the publication date of this Phase I report.

7.0. BUSINESS ENVIRONMENTAL RISKS - NON-ASTM SERVICES

Additional environmental considerations beyond the scope of the standard ASTM practice that have the potential to pose business environmental risks are discussed below.

7.1. MOLD

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air. Mold may begin growing indoors when mold spores land on surfaces that are wet. There are many types of mold, and none of them will grow without water or moisture.

Molds are usually not a problem indoors, unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins).

At the time of the property reconnaissance, no obvious signs of mold/microbiological growth, were observed.

7.2. ASBESTOS CONTAINING BUILDING MATERIALS

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials (roofing shingles, ceiling and floor tiles, paper products, and asbestos cement products), friction products (automobile clutch, brake, and transmission parts), heat-resistant fabrics, packaging, gaskets, and coatings.

Prior to the late 1970s, building products and insulation materials commonly contained asbestos. In 1989, the USEPA banned all new uses of asbestos; however, uses developed before 1989 are still allowed. When asbestos-containing materials are damaged or disturbed by repair, remodeling or demolition activities, microscopic fibers become airborne and can be inhaled into the lungs, where they can cause significant health problems.

No structures are located on the property except for a small shed. No evidence of ACM was observed in the shed.

7.3. LEAD-BASED PAINT

Lead is a toxic metal that was used for many years in products found in and around our homes. Lead-based paint (LBP) was used extensively in buildings constructed before 1950. In 1978, LBP was banned by the federal government. Lead may cause a range of health defects, from behavioral problems and learning disabilities, to seizures and death.

No structures are located on the property except for a small shed. No evidence of LBP was observed in the shed.

7.4. RADON

Radon is a naturally occurring, colorless, odorless gas that is soluble in water. It is produced through the radioactive decay of uranium and radium, which is naturally present in soil and in minerals in bedrock. Radon is radioactive, which means that it breaks down or decays to form other elements. Radon concentrations generally differ among different rock types and can vary considerably within the same geologic formation. Radon moves from its source in rocks and soils through voids and fractures. It can enter buildings as a gas through foundation cracks or it can dissolve in ground water and be carried to buildings through the use of water-supply wells. Buildings with basements and concrete slab foundations are more susceptible to elevated levels of indoor radon gas. The inhalation of radon gas can cause damage to lung tissue.

A common unit of radioactivity measurement is picocuries per liter (pCi/L). The USEPA established the recommended safe radon level at 4 pCi/L. According to the USEPA, the subject property county, Contra Costa, is located in a moderate radon potential area (Zone 2), defined as having a ‘predicted average indoor radon screening level between 2 and 4 pCi/L.’

7.5. WETLANDS

As reported in Section 3.2., according to the EDR Report (Appendix C) the subject property is not located within a National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

7.6. REGULATORY COMPLIANCE

AGI searched the subject property address, Mitchell Canyon Road, Clayton, California, on local, state and federal databases. No records were found regarding any outstanding regulatory permitting or requirements/directives in connection with the property.

8.0. EVALUATION

Any deviations from the ASTM Standard Practice 1527E-13 and USEPA AAI are presented below, along with the findings, conclusions, and opinions identified during the course of this Phase I.

8.1. DATA GAPS AND LIMITATIONS

A data gap occurs when a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, and interviews. The following data gaps and/or limitations were identified during the course of this Phase I, which may deviate from the ASTM standard practice:

- The largest data gap in research was 27 years, between 1912 and 1939, with the earliest researched information being a Topographic Map dated in 1912. Data gaps generally do not exceed five years between 1940 through the present.
- An ASTM-compliant interview was not completed during this Phase I.

The lack of this information represents a data gap. However, based on the other information obtained during the completion of this assessment, the lack of the Interview does not represent a significant data gap.

8.2. FINDINGS

Based on the standards set by ASTM Practice E1527-13, the following findings are differentiated below as Business Environmental Risk (including the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials may constitute a Business Environmental Risk), de minimis conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs, as defined in Section 1.1. of this report.

8.2.1. Business Environmental Risk

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property.

8.2.2. De Minimis Conditions

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

8.2.3. Historical Recognized Environmental Conditions

This assessment has revealed no evidence of HRECs in connection with the subject property.

8.2.4. Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of CRECs in connection with the subject property.

8.2.5. Recognized Environmental Conditions

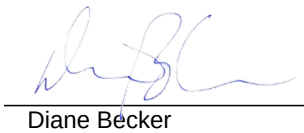
This assessment has revealed no evidence of RECs in connection with the subject property.

9.0. CONCLUSIONS AND OPINION

AGI has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at Mitchell Canyon Road, Clayton, California. Any exceptions to, or deletions from, this practice or scope of work are described in Section 8.1. of this report or presented as non-ASTM services in Section 7.0. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented.This assessment has revealed no evidence of RECs in connection with the property. AGI has no recommendations for additional environmental investigations of the subject property.

10.0. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Diane Becker
Senior Geologist

11.0. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the environmental professionals involved in the preparation of this Phase I are included in Appendix F.

12.0. REFERENCES

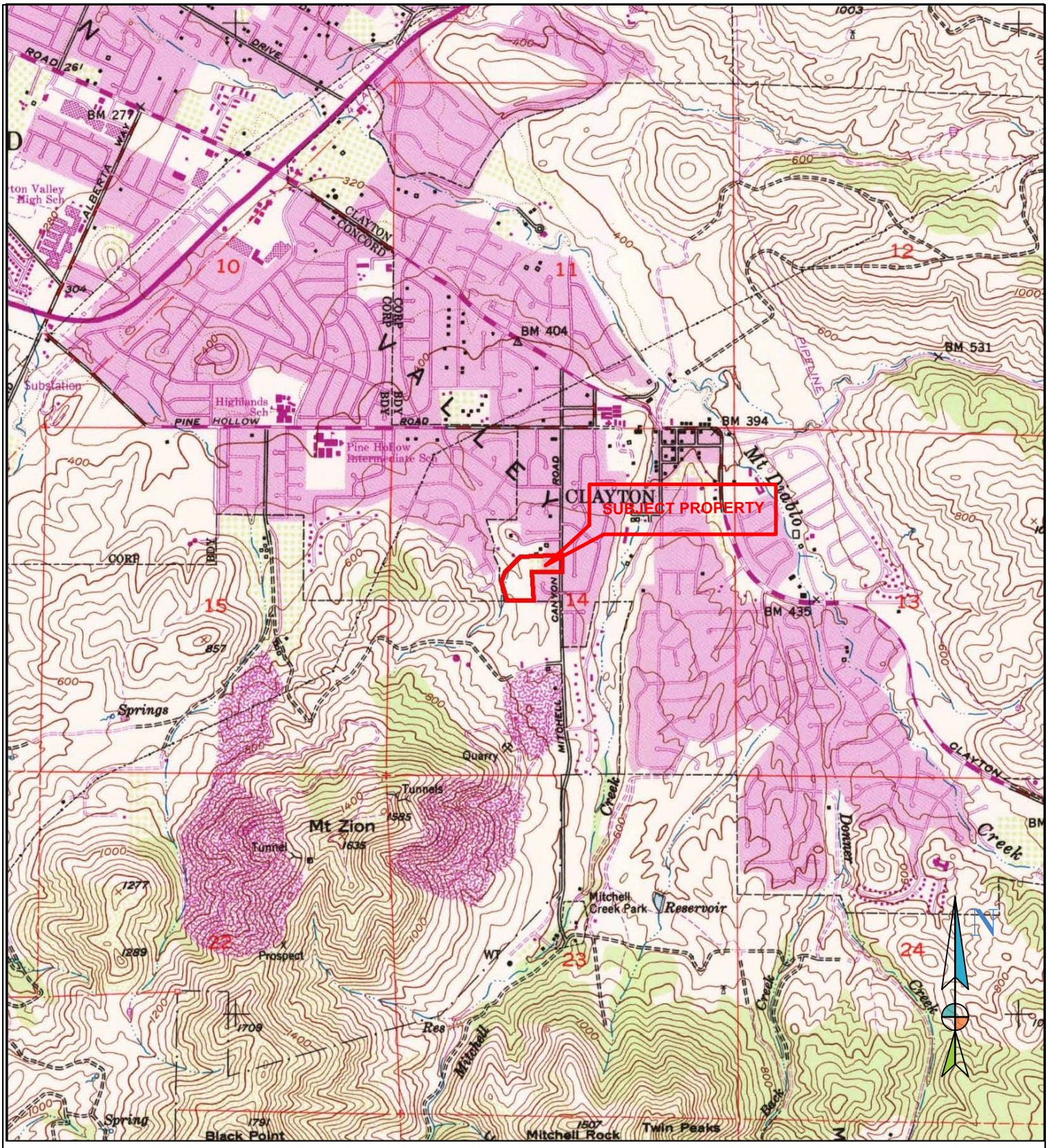
The following documents, maps or other publications may have been utilized during the preparation of this Phase I:

- AEI, *Phase I Environmental Assessment*, August 2019.
- ---------, Limited Soil Sampling, September 2019.
- ASTM, E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, 2013.
- California Department of Water Resources (DWR), Groundwater Basins in California, Version 3.0., 2003.
- Environmental Data Resources Inc. (EDR)-prepared: The EDR Radius Map, The EDR-City Directory Abstract, Certified Sanborn® Map Report, EDR Historical Topographic Map Report, EDR Historical Aerial Photograph Report.

The following websites may have been accessed to obtain information during the preparation of this Phase I:

- California State Water Resource Control Board's GeoTracker website: http://geotracker.swrcb.ca.gov/
- California Geological Survey — Note 36: California Geomorphic Provinces: http://www.conservation.ca.gov/cgs/information/publications/cgs_notes/note_36/Documents/note_36.pdf
- California Department of Water Resources website: http://www.cd.water.ca.gov/
- DTSC's ENVIROSTOR website: www.envirostor.dtsc.ca.gov/public
- DTSC's HWTS website: http://www.hwts.dtsc.ca.gov/
- FEMA's website: www.fema.gov/
- ParcelQuest by CD-DATA online download: www.parcelquest.com
- USEPA's Envirofacts website: www.epa.gov/enviro
- USEPA's radon information website: www.epa.gov/radon/zonemap.html#mapcolors
- USEPA's lead information website: www.epa.gov/lead/
- USEPA's asbestos information website: www.epa.gov/asbestos/
- USEPA's mold information website: www.epa.gov/mold/moldguide.html
- The Geologic Energy Management Division (CalGEM) Well Finder: https://www.conservation.ca.gov/calgem/Pages/Wellfinder.aspx

Figures



CLAYTON, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

0 2,000 4,000
APPROXIMATE SCALE IN FEET

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

LOCATION MAP

CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1
CLAYTON, CALIFORNIA

DATE:	FEBRUARY 2020
FILE:	LOCATION
DRAWN BY:	DMB
PROJECT NO.	20-4996
FIGURE:	1



LEGEND

Approximate Property Boundary

Approximate Water Well Location

N

*Base map from Google Earth

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

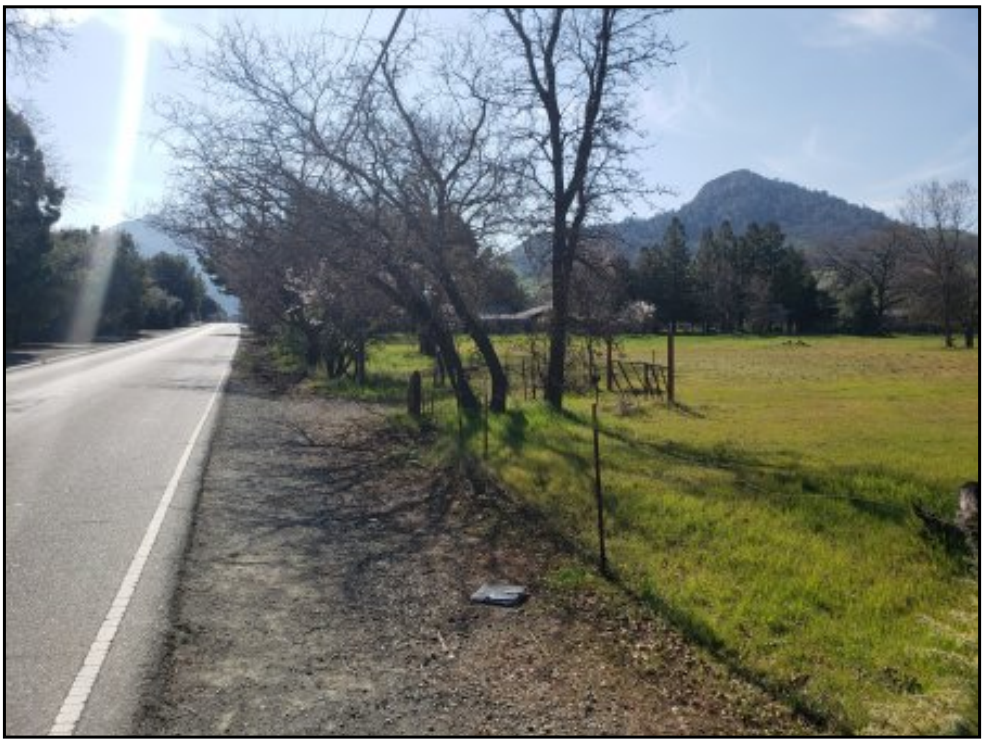
SITE PLAN

CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1
CLAYTON, CALIFORNIA

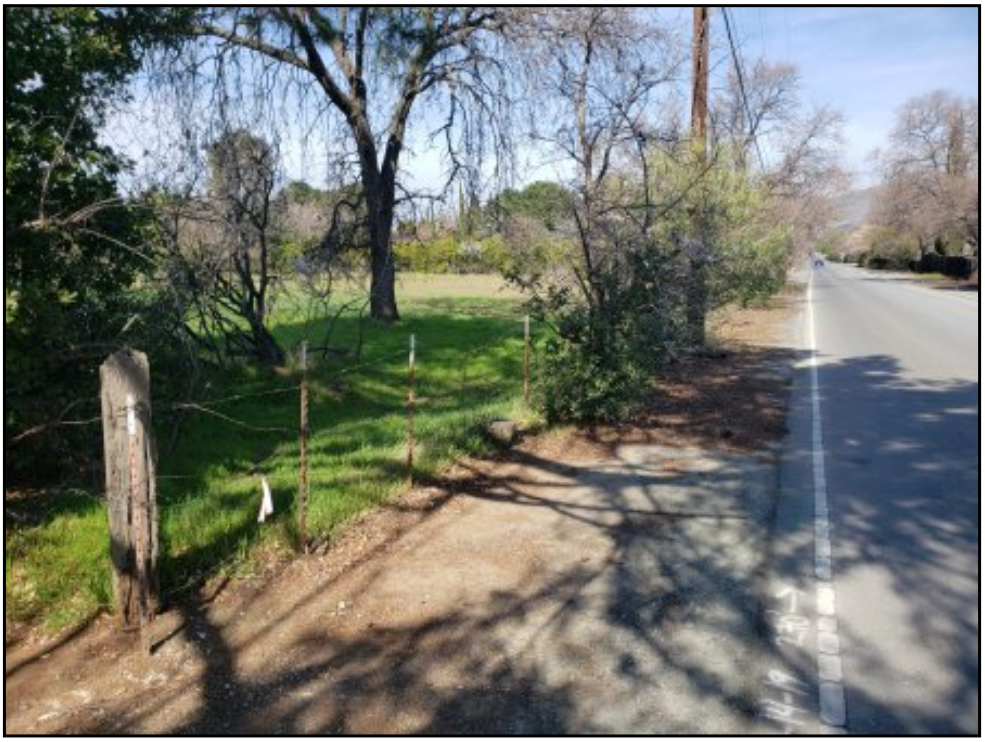
DATE:	FEBRUARY 2020
FILE:	SP
DRAWN BY:	DMB
PROJECT NO.	20-4996
FIGURE:	2

Appendix A -

Photographs of the Subject Property



1 : View of northeast corner of subject property along Mitchell Canyon Road. Photograph depicts eastern property boundary and right-of-way shoulder on west side of Mitchell Canyon Road.



2 : View of southeast corner of subject property along Mitchell Canyon Road. Photograph depicts eastern property boundary and right-of-way shoulder on west side of Mitchell Canyon Road.



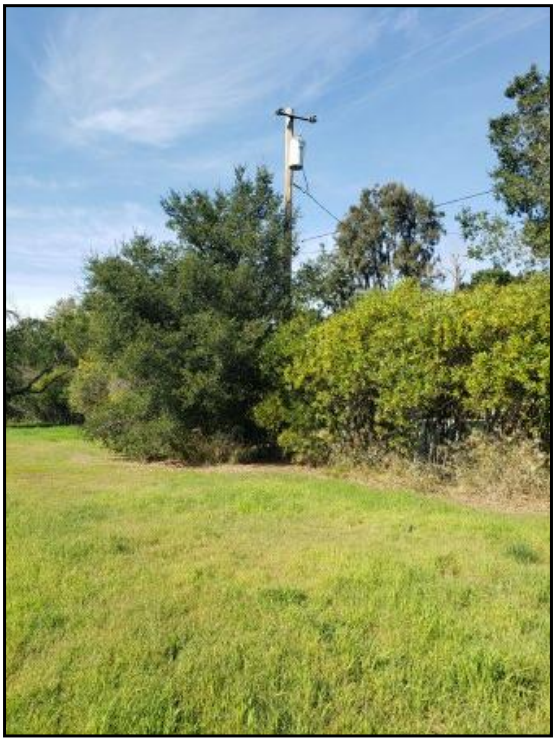
3 : View from southern parcel looking towards the northeast. Background depicts tool shed and residential development.



4 : View from northeast corner of north parcel looking towards the northeast. Background depicts north property fenceline.



5 : View from Canyon Mitchell Road looking towards the west. Background depicts driveway entrance gate at northern parcel.



6 : View from northern parcel looking towards the northwest. Background depicts electrical transformer along the northern property boundary.



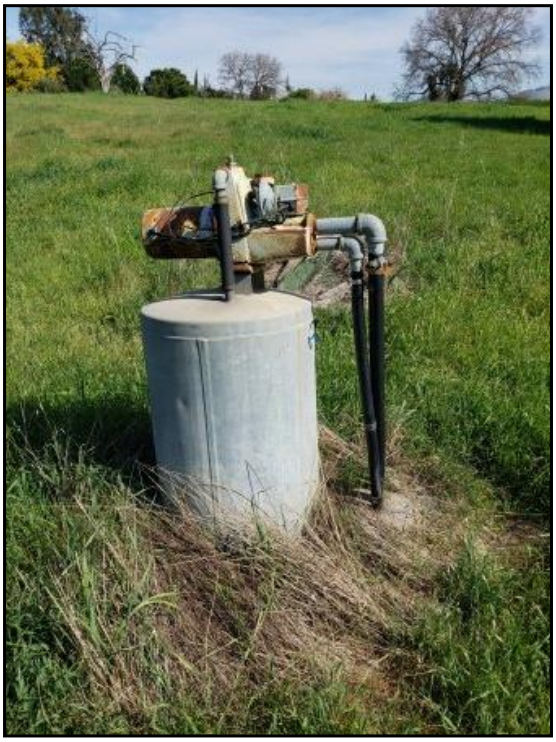
7 : View from northern parcel looking east towards Mitchell Canyon Road. Background depicts vegetation and undeveloped land.



8 : View from northern parcel looking towards the west. Background depicts northwest corner of subject property and a residential development furthter northwest.



9 : View from northern parcel looking towards the west. Background depicts tool & equipment shed.



10 : View from northern parcel. Photograph depicts water well. At least one faucet was located at the tool shed.



11 : View from southern parcel looking towards the south. Background undeveloped land with trees and vegetation.



12 : View from southern parcel looking towards the west. Background depicts undeveloped land follwed by a residential development.



13 : View from southern parcel looking towards the north. Background depicts undeveloped land followed by a residential development.



14 : View from southern parcel looking towards the southeast. Background depicts vegetation/trees and undeveloped land followed by residential development.



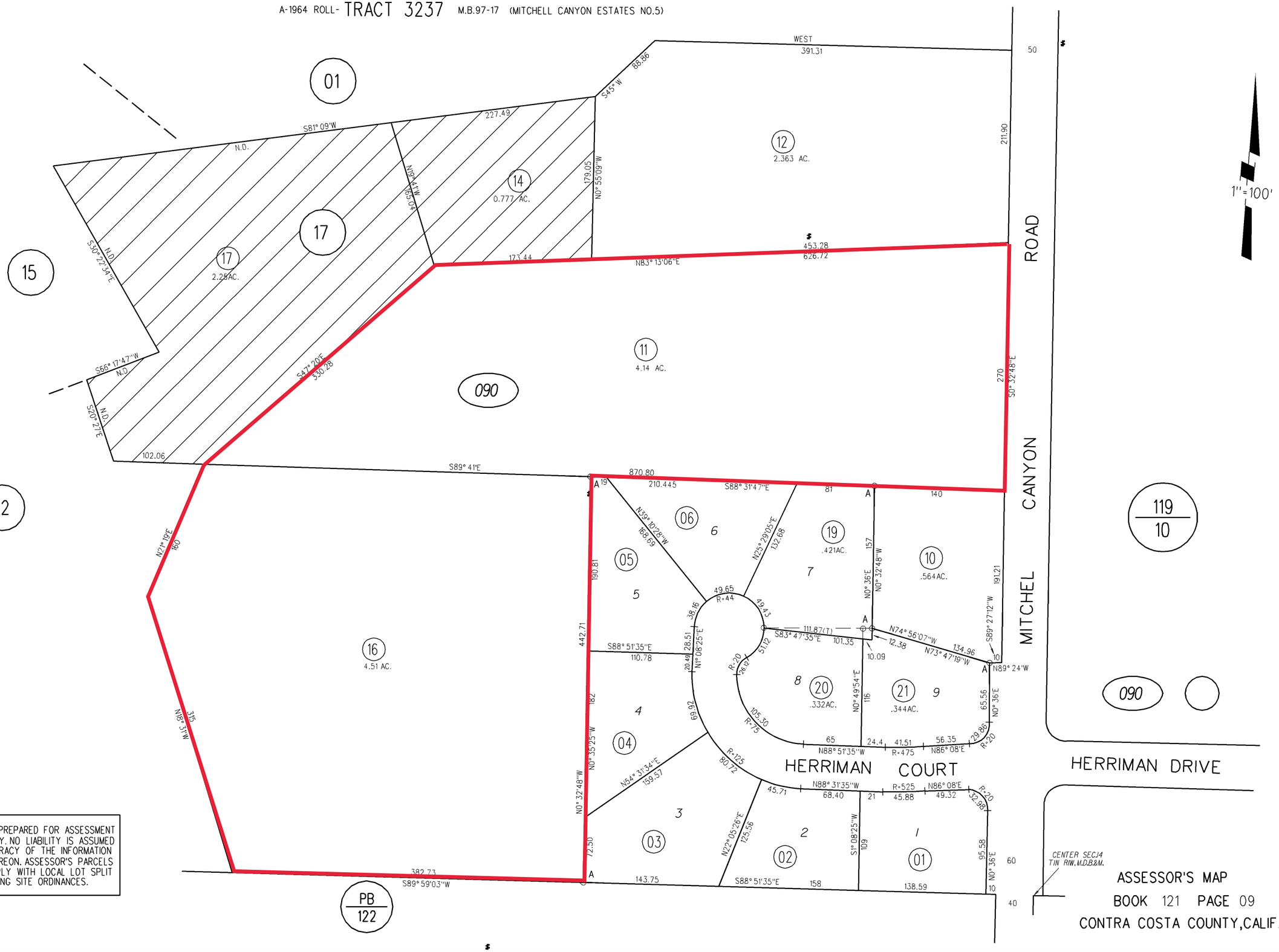
15 : View from southern parcel looking towards the northern parcel. Background depicts water well, followed by and residential development.

Appendix B -

Historical Documents

POR.NW1/4SEC.14, T1N R1W, M.D.B.&M.

A-1964 ROLL- TRACT 3237 M.B.97-17 (MITCHELL CANYON ESTATES NO.5)



NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION DELINEATED HEREON. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT SPLIT OR BUILDING SITE ORDINANCES.

ASSESSOR'S MAP
BOOK 121 PAGE 09
CONTRA COSTA COUNTY, CALIF.

DETAIL REPORT

Property Address: **MITCHELL CANYON RD CLAYTON CA 94517**

Ownership

Parcel# (APN):	**121-090-011-2**
Parcel Status:	
Owner Name:	**CLAYTON FRED B TRE ISOBE KAREN E**
Mailing Addr:	**825 ORANGE AVE SAN CARLOS CA 94070-3829**
Legal Description:	**POR NW QR SEC 14 T1N R1W 4.14 AC**

Assessment

Total Value:	**$91,579**	Use Code:	**62**	Use Type:	**MISCELLANEOUS**
Land Value:	**$90,960**	Tax Rate Area:	**013-006**	Zoning:	
Impr Value:	**$619**	Year Assd:	**2019**	Census Tract:	
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording date:	**09/05/2018**	**04/29/2017**	**07/07/2015**	**09/05/2018**
Recording Doc:	**141867**		**139567**	**141867**
Doc type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**4.140**	Spaces:		Site influence:	
Lot SqFt:	**180,338**	Garage SqFt:		Timber Preserve:	
Year Built:		Bsmt SqFt:	**N/A**	Ag Preserve:	
Effective Year:					

Call us 888-217-8999
Visit us: www.ParcelQuest.com
**The information provided here is deemed reliable, but is not guaranteed.
© 2020 ParcelQuest

DETAIL REPORT

Property Address: **MITCHELL CANYON RD CLAYTON CA 94517**

Ownership

Parcel# (APN):	**121-090-016-1**
Parcel Status:	
Owner Name:	**CLAYTON FRED B TRE ISOBE KAREN E**
Mailing Addr:	**825 ORANGE AVE SAN CARLOS CA 94070-3829**
Legal Description:	**POR NW QR SEC 14 T1N R1W 4.51 AC**

Assessment

Total Value:	**$41,274**	Use Code:	**18**	Use Type:	**VACANT**
Land Value:	**$41,274**	Tax Rate Area:	**013-006**	Zoning:	
Impr Value:		Year Assd:	**2019**	Census Tract:	
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording date:	**09/05/2018**	**04/29/2017**	**07/07/2015**	**09/05/2018**
Recording Doc:	**141867**		**139567**	**141867**
Doc type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**4.510**	Spaces:		Site influence:	
Lot SqFt:	**196,456**	Garage SqFt:		Timber Preserve:	
Year Built:		Bsmt SqFt:	**N/A**	Ag Preserve:	
Effective Year:					

Call us 888-217-8999
Visit us: www.ParcelQuest.com
**The information provided here is deemed reliable, but is not guaranteed.
© 2020 ParcelQuest

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5957509.3
February 03, 2020

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/03/20

Site Name:

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5957509.3

Client Name:

AdvancedGeo, Inc.
837 Shaw Road
Stockton, CA 92515
Contact: Diane Becker

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AdvancedGeo, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # D1FD-4374-A73B

PO # NA

Project Clayton Trust Property

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: D1FD-4374-A73B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

AdvancedGeo, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Clayton Trust Property

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5957509.8

February 03, 2020

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/03/20

Site Name:

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5957509.8

Client Name:

AdvancedGeo, Inc.
837 Shaw Road
Stockton, CA 92515
Contact: Diane Becker

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: June 12, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1966	1"=500'	Flight Date: May 15, 1966	USDA
1963	1"=500'	Flight Date: July 16, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: August 13, 1958	USDA
1950	1"=500'	Flight Date: March 12, 1950	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1946	1"=500'	Flight Date: July 22, 1946	USGS
1939	1"=500'	Flight Date: July 25, 1939	USDA

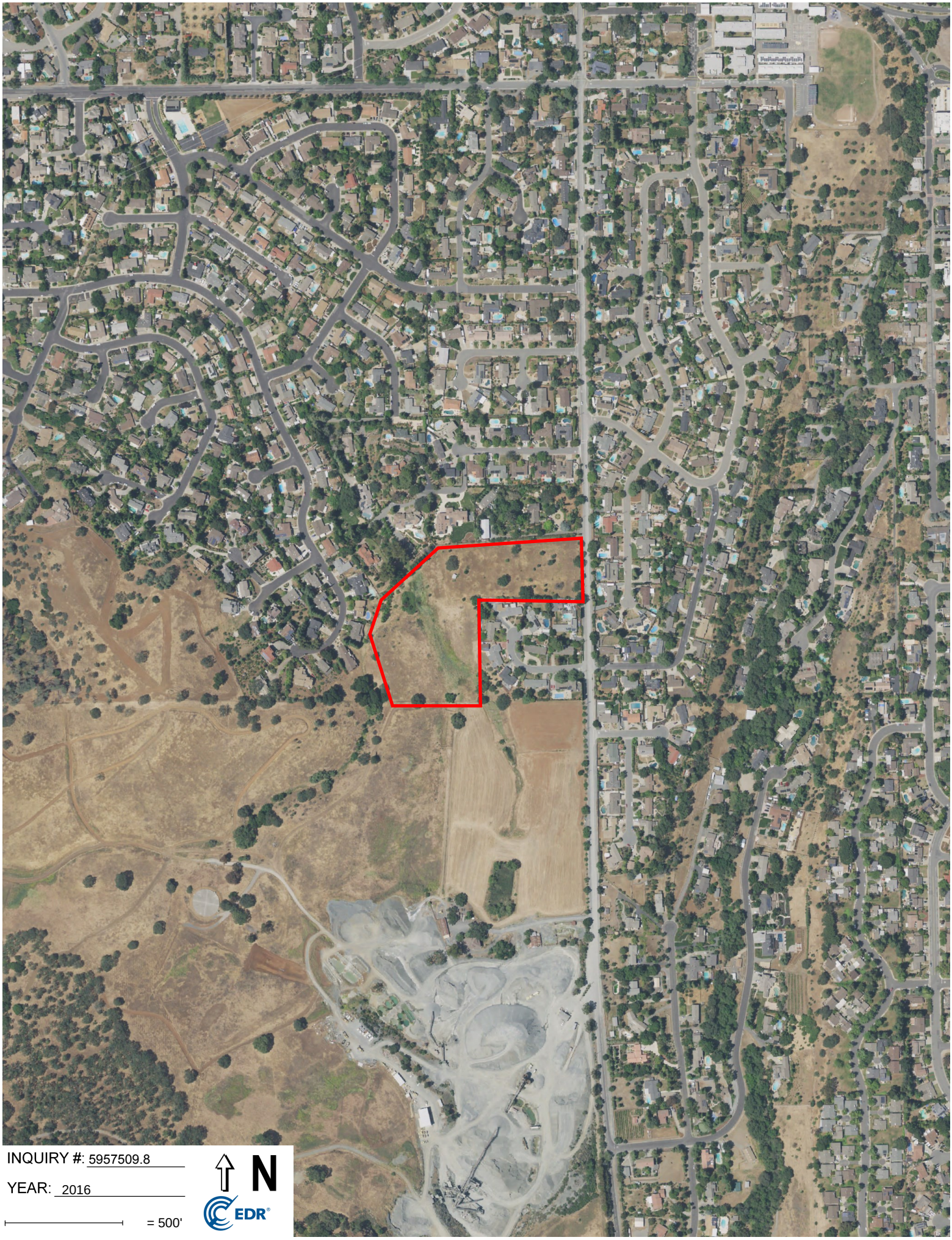
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

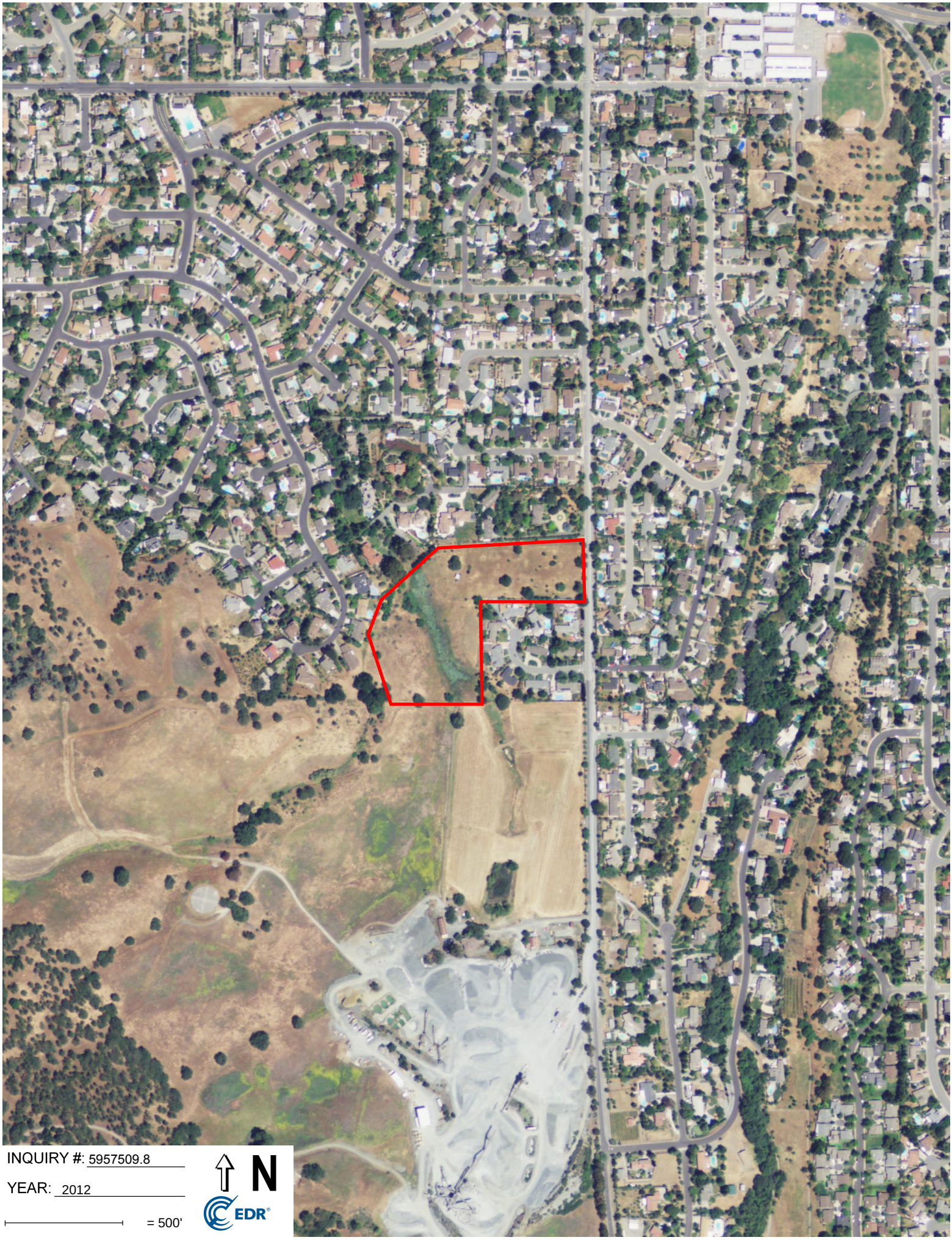
Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.


INQUIRY #: 5957509.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5957509.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5957509.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5957509.8
YEAR: 2006
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1998

= 500'

N

EDR



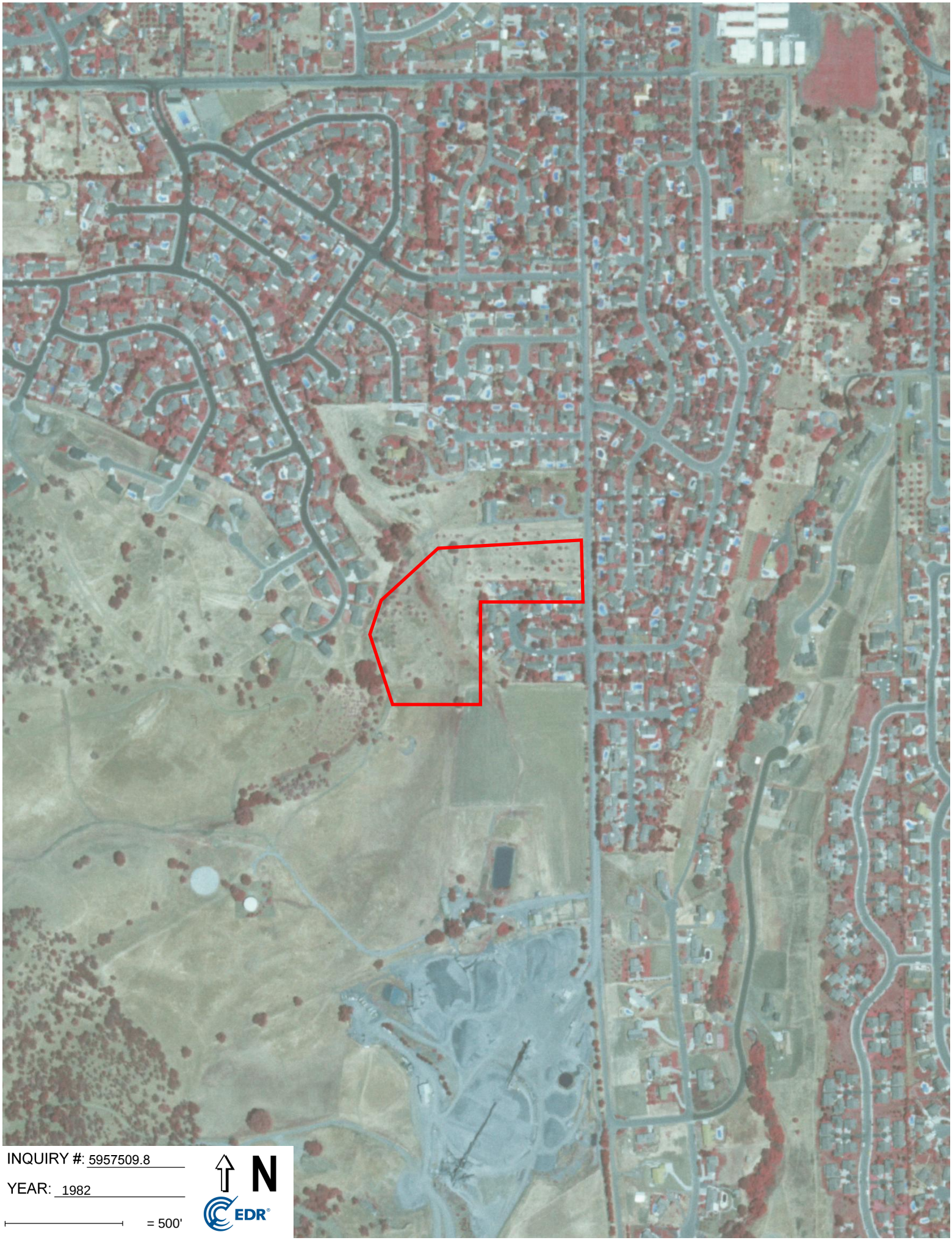
INQUIRY #: 5957509.8

YEAR: 1993

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1982
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1979

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1966
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1963

= 500'

N

EDR



INQUIRY #: 5957509.8

YEAR: 1958

= 500'

N

EDR



INQUIRY #: 5957509.8

YEAR: 1950

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1949
= 500'
N
EDR



INQUIRY #: 5957509.8

YEAR: 1946

= 500'

N

EDR


INQUIRY #: 5957509.8
YEAR: 1939
= 500'
N
EDR

Clayton Trust Property

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5957509.4

February 03, 2020

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/03/20

Site Name:	Client Name:
Clayton Trust Property	AdvancedGeo, Inc.
Mitchell Canyon Road	837 Shaw Road
Clayton, CA 94517	Stockton, CA 92515
EDR Inquiry # 5957509.4	Contact: Diane Becker

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by AdvancedGeo, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Clayton Trust Property

Coordinates:

Latitude:	37.935244 37° 56' 7" North
Longitude:	-121.94392 -121° 56' 38" West
UTM Zone:	Zone 10 North
UTM X Meters:	592803.77
UTM Y Meters:	4199156.08
Elevation:	495.66' above sea level

Maps Provided:

2012	1898
1994	1896
1980	
1973	
1968	
1953	
1943	
1912	

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

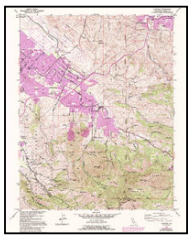
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



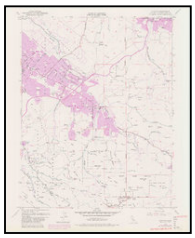
Clayton
2012
7.5-minute, 24000

1994 Source Sheets



Clayton
1994
7.5-minute, 24000
Aerial Photo Revised 1979

1980 Source Sheets



Clayton
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets

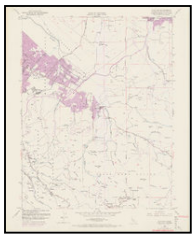


Clayton
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets



Clayton
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1953 Source Sheets



Clayton
1953
7.5-minute, 24000
Aerial Photo Revised 1949

1943 Source Sheets



Mt. Diablo
1943
15-minute, 62500
Aerial Photo Revised 1937

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1898 Source Sheets



Mt. Diablo
1898
15-minute, 62500

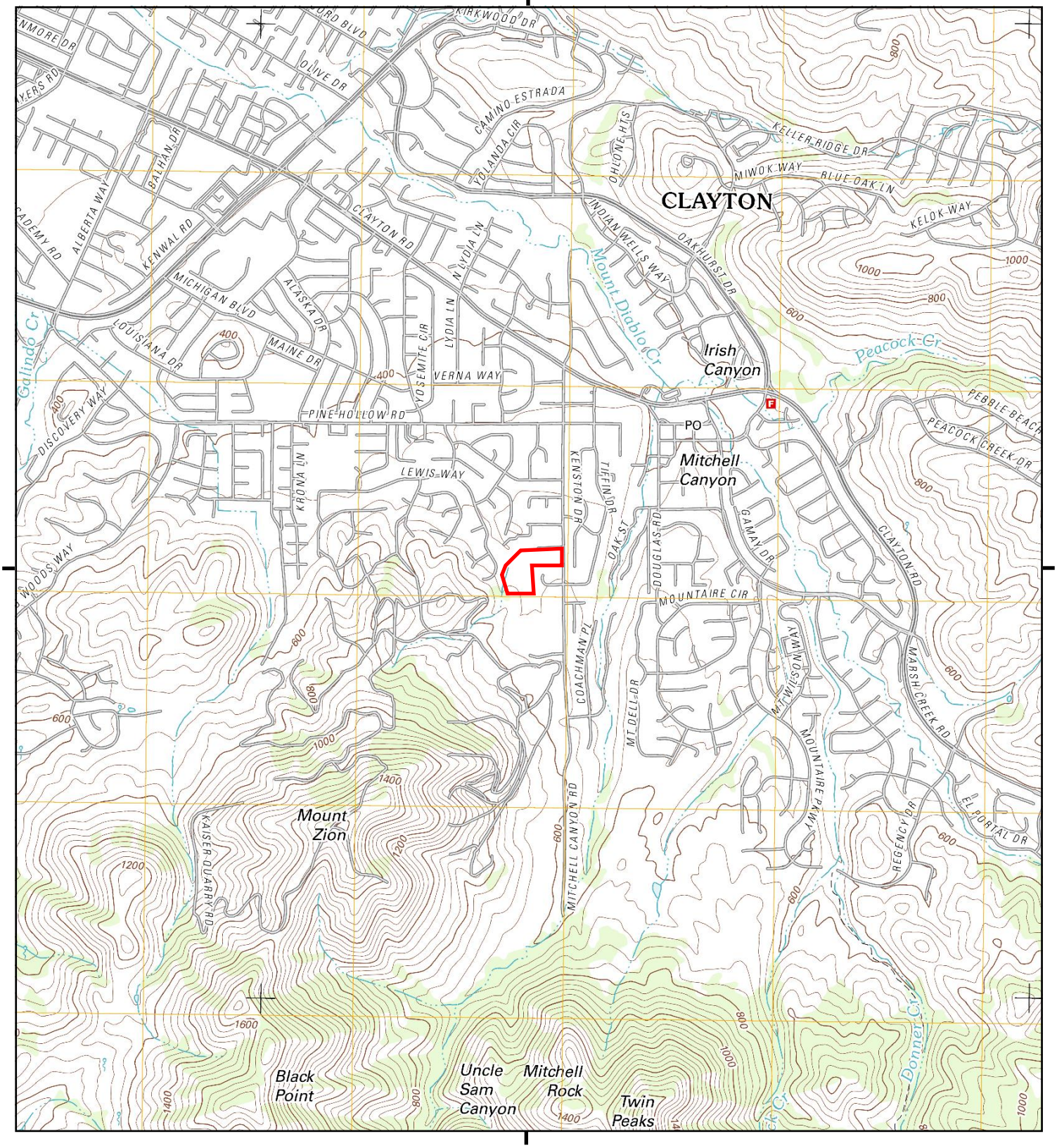
1896 Source Sheets



Mt. Diablo
1896
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

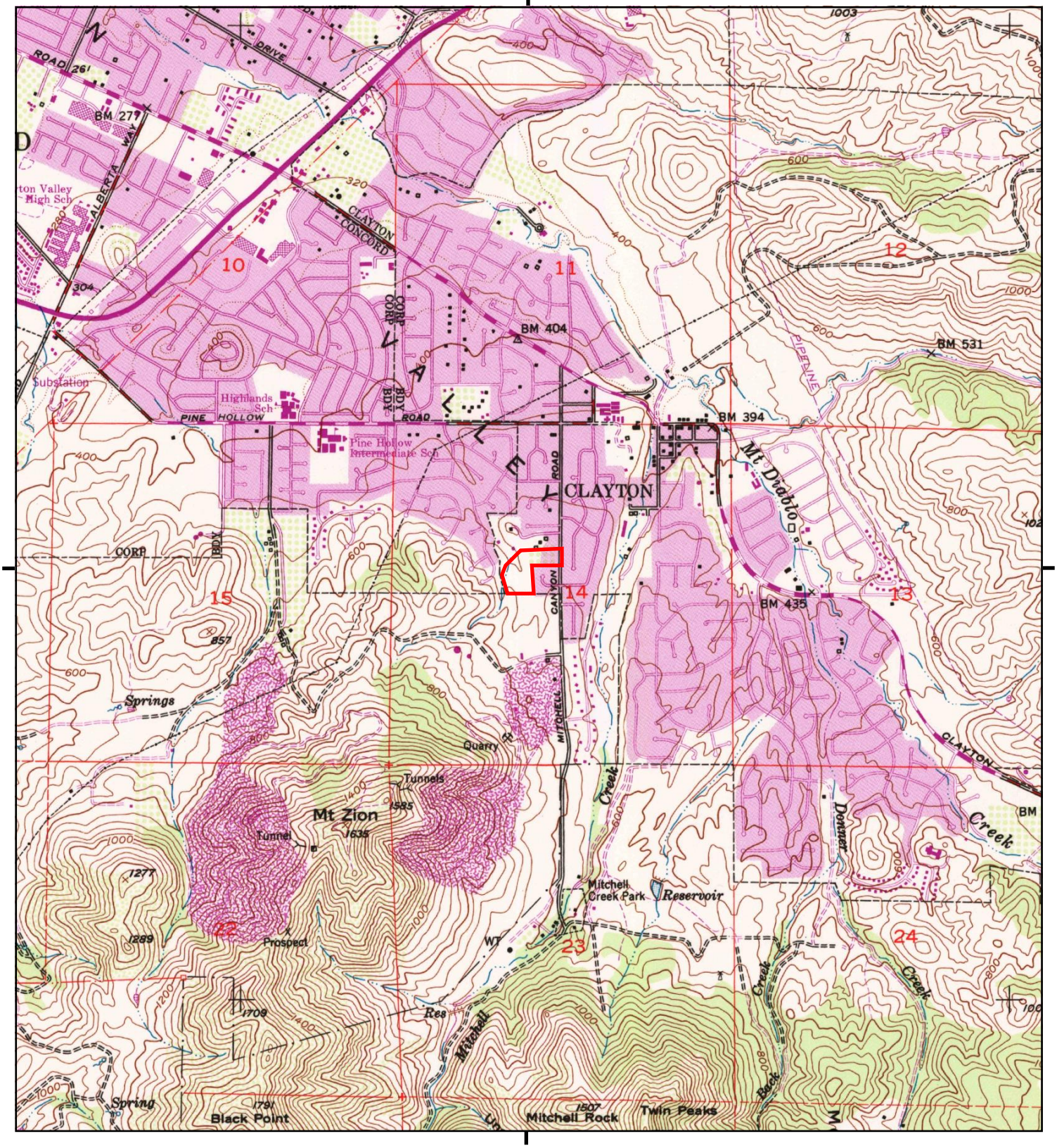
TP, Clayton, 2012, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1994



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

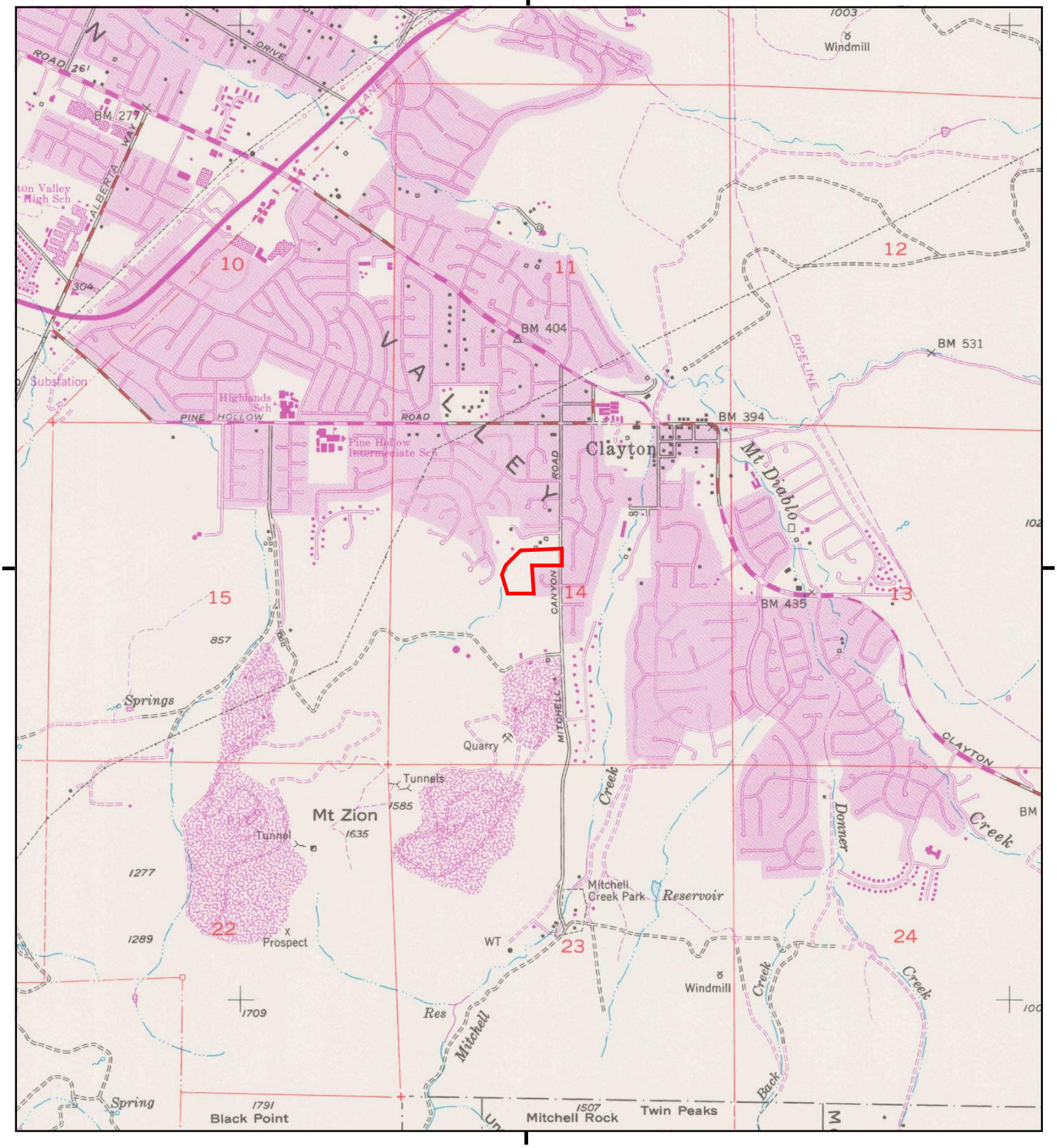
TP, Clayton, 1994, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

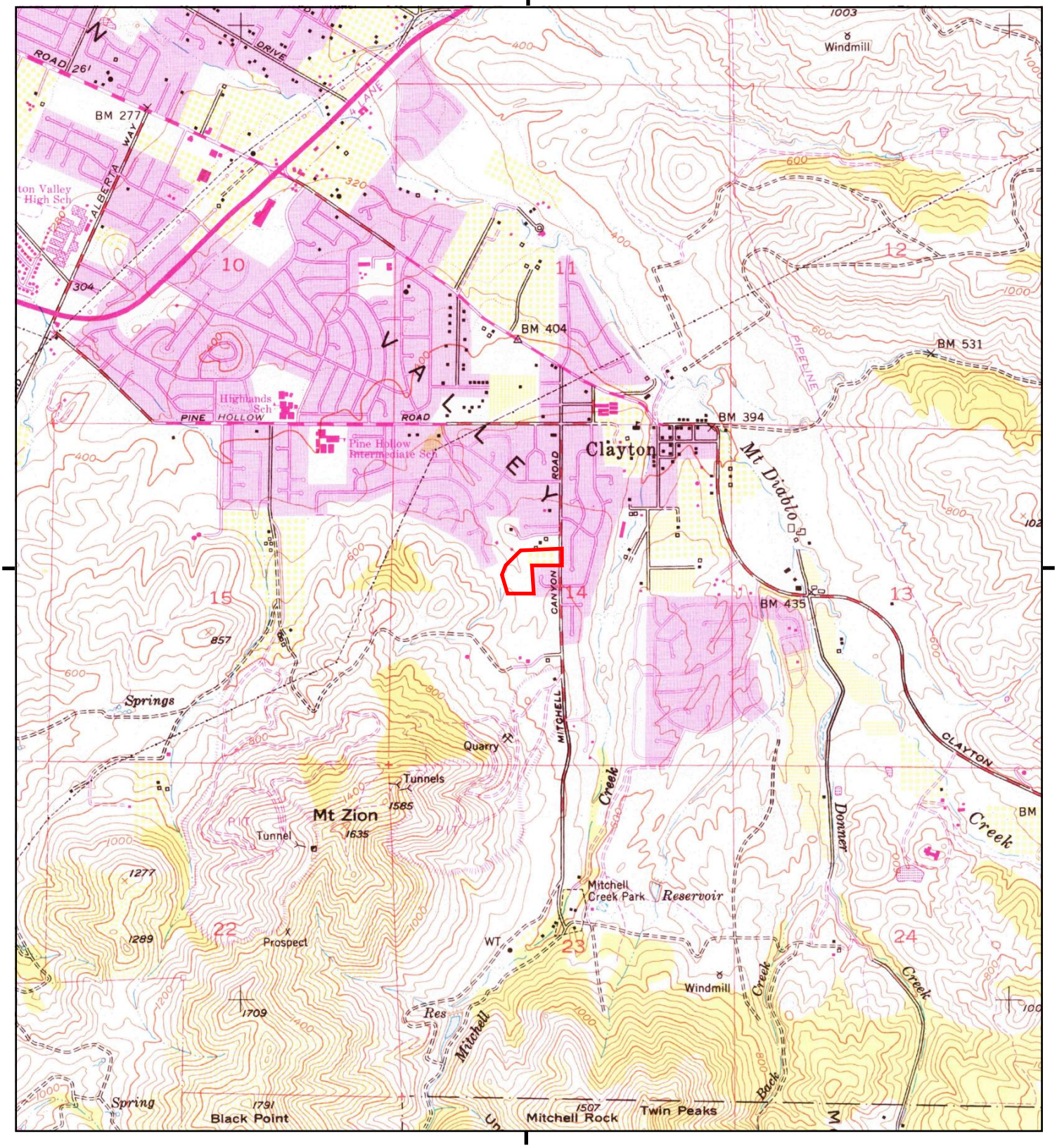
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1980, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

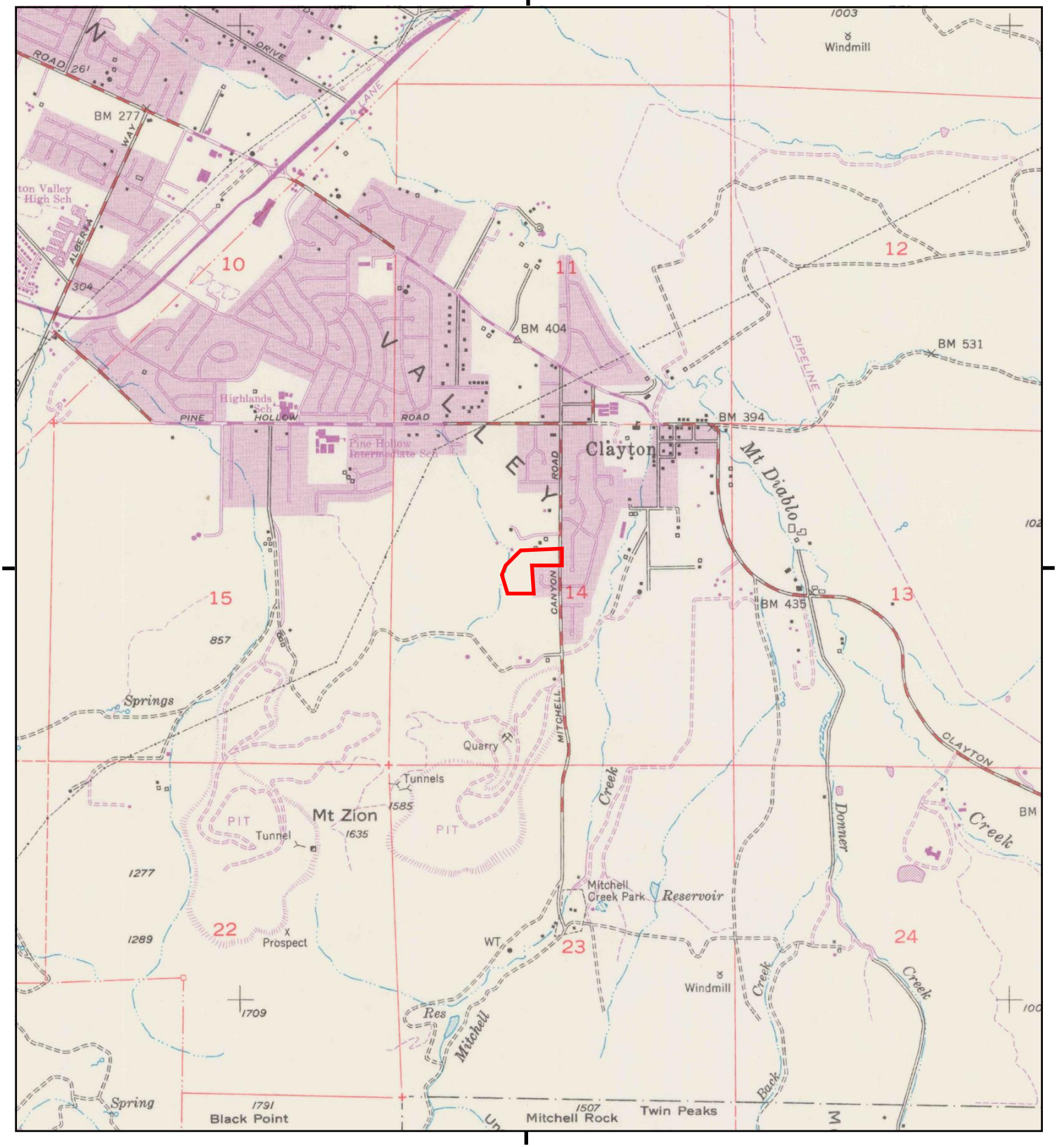
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1973, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

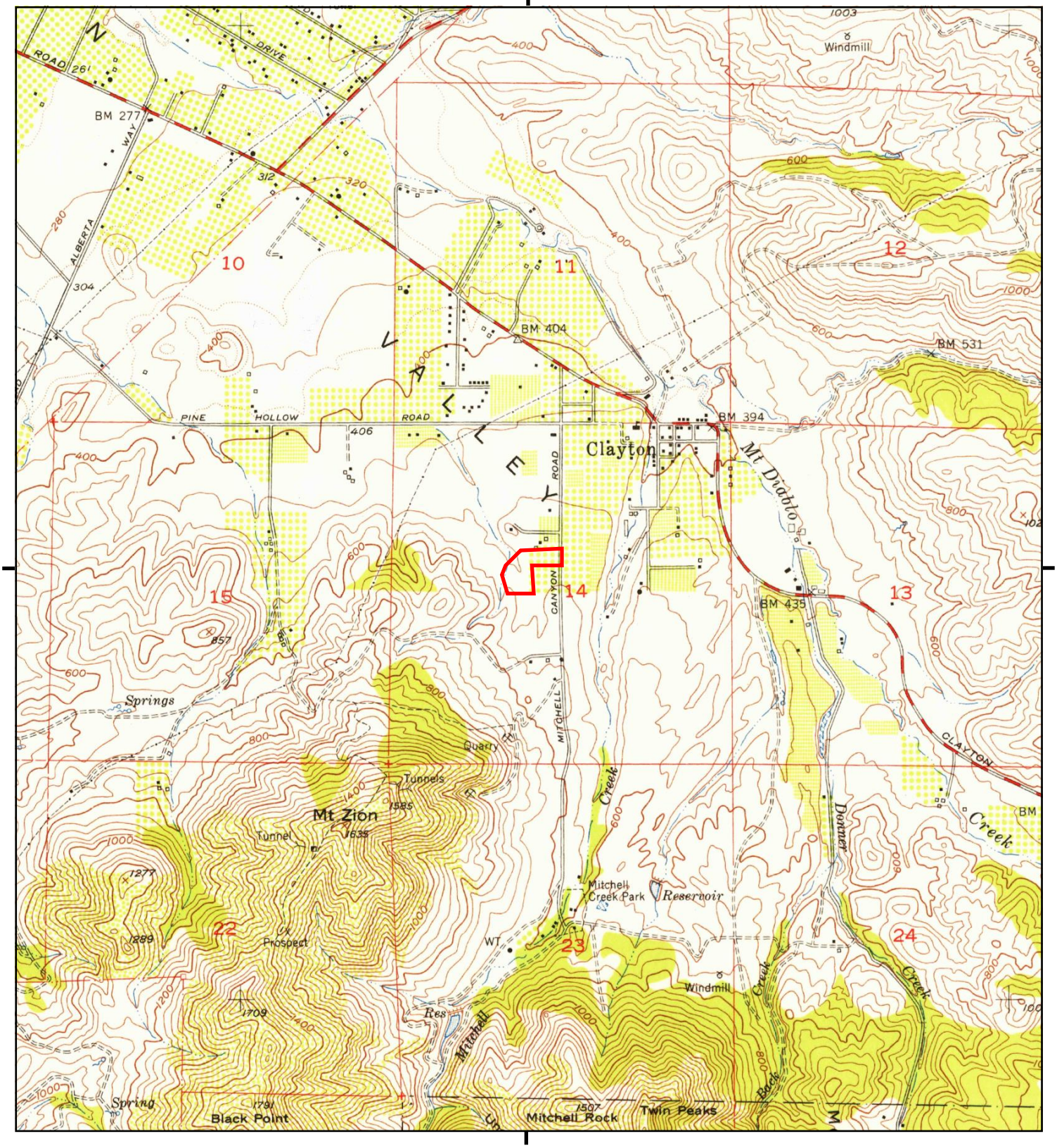
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1968, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

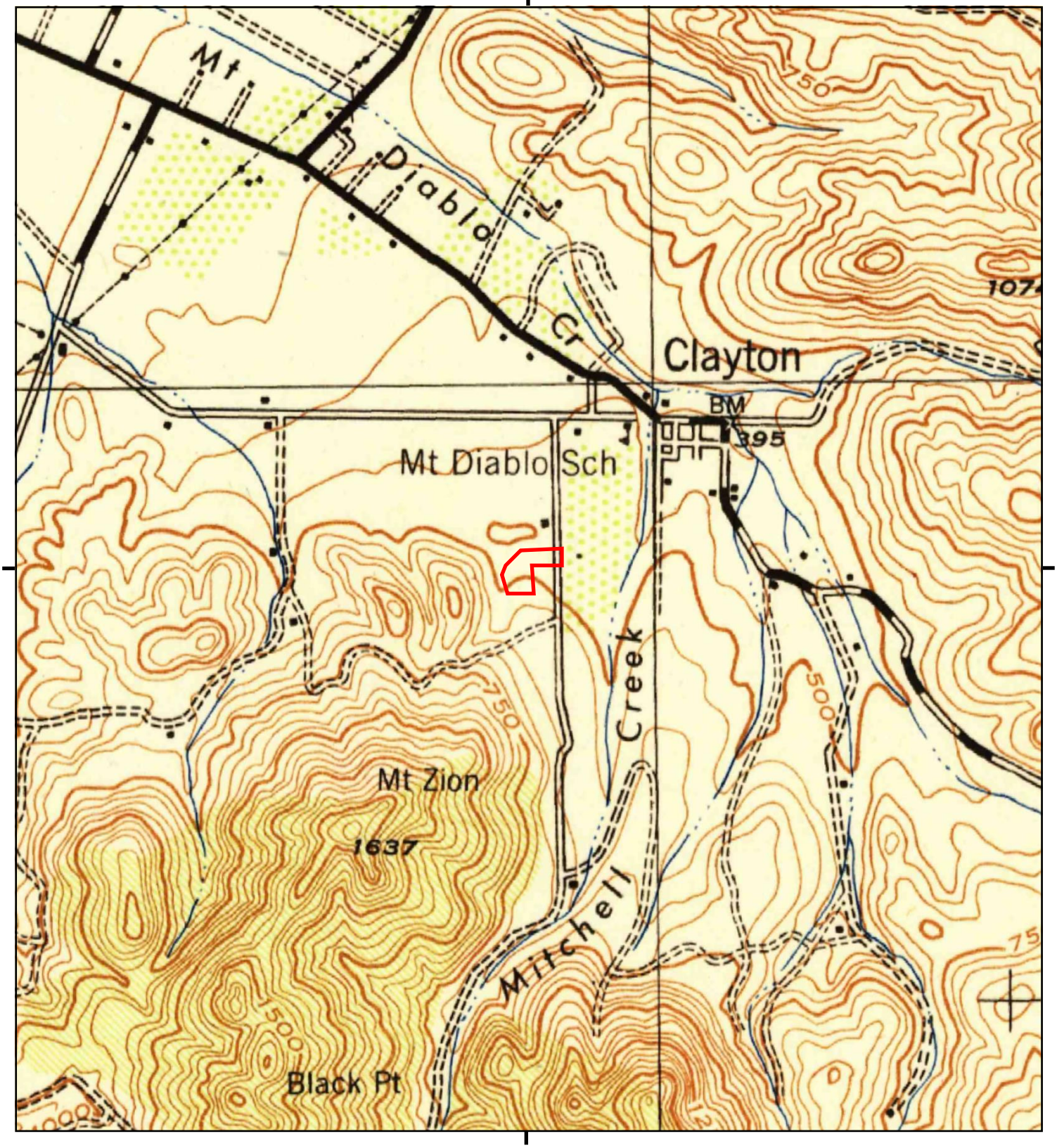
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Clayton, 1953, 7.5-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

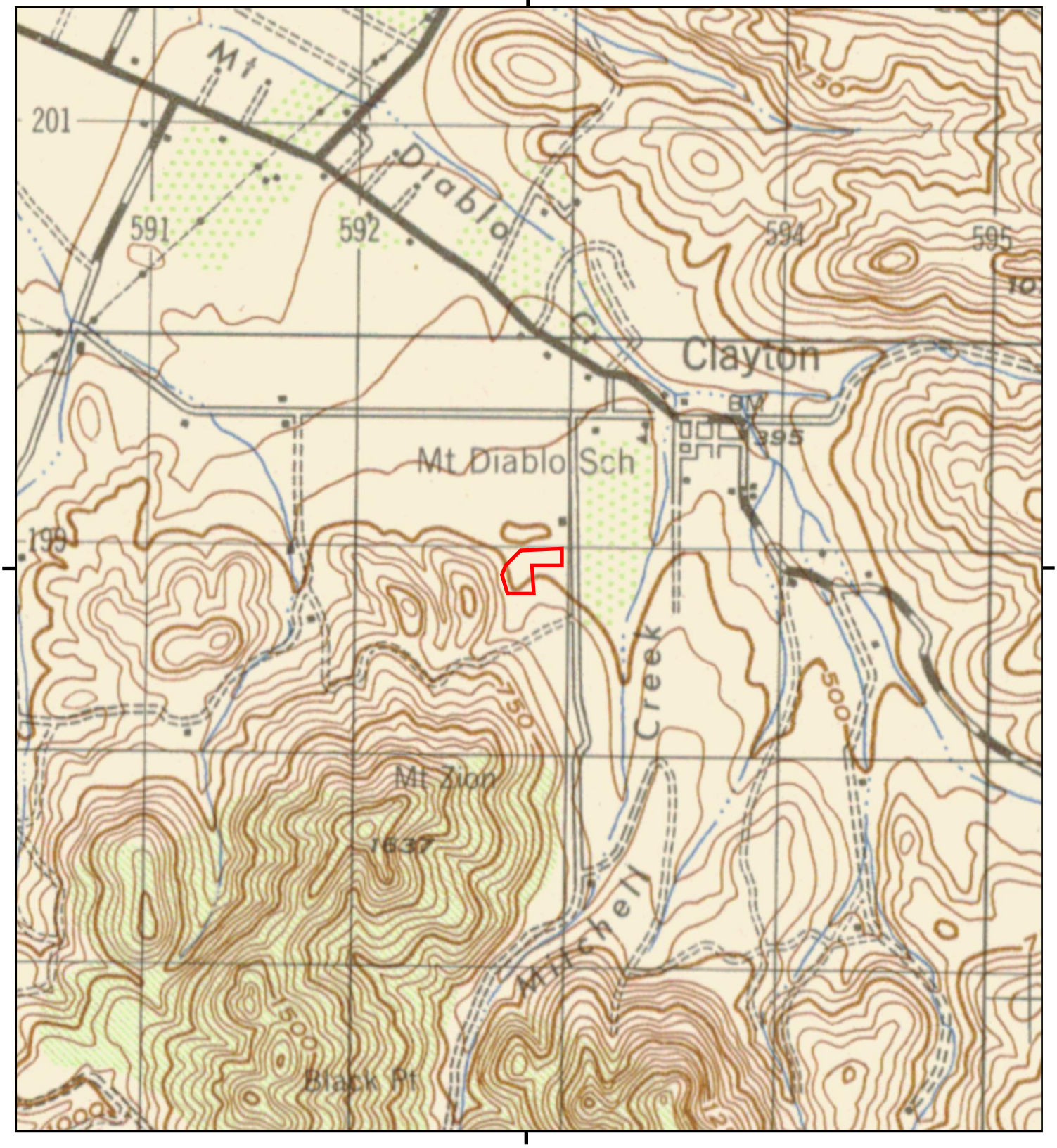
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Diablo, 1943, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

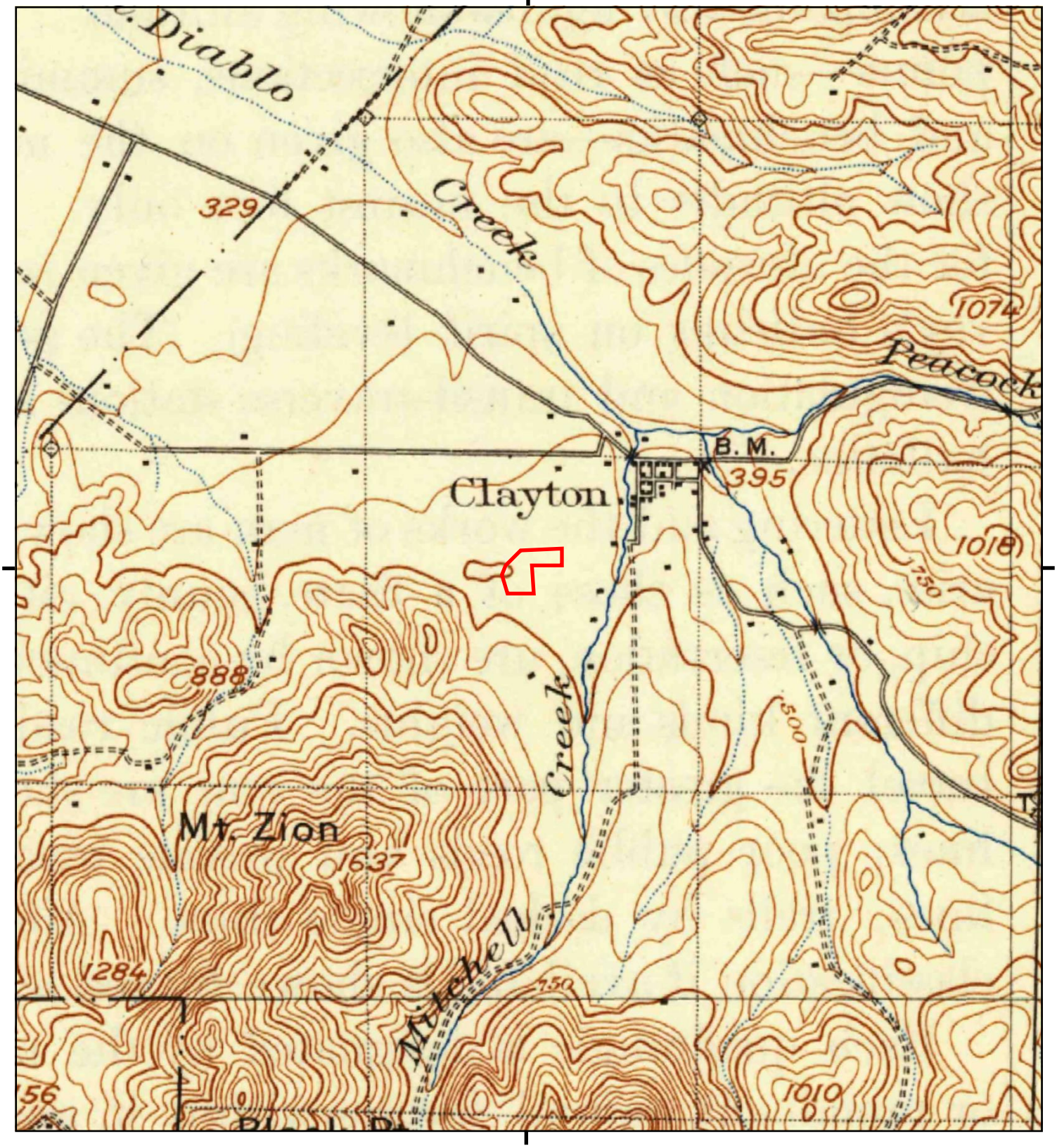
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, MT. DIABLO, 1912, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

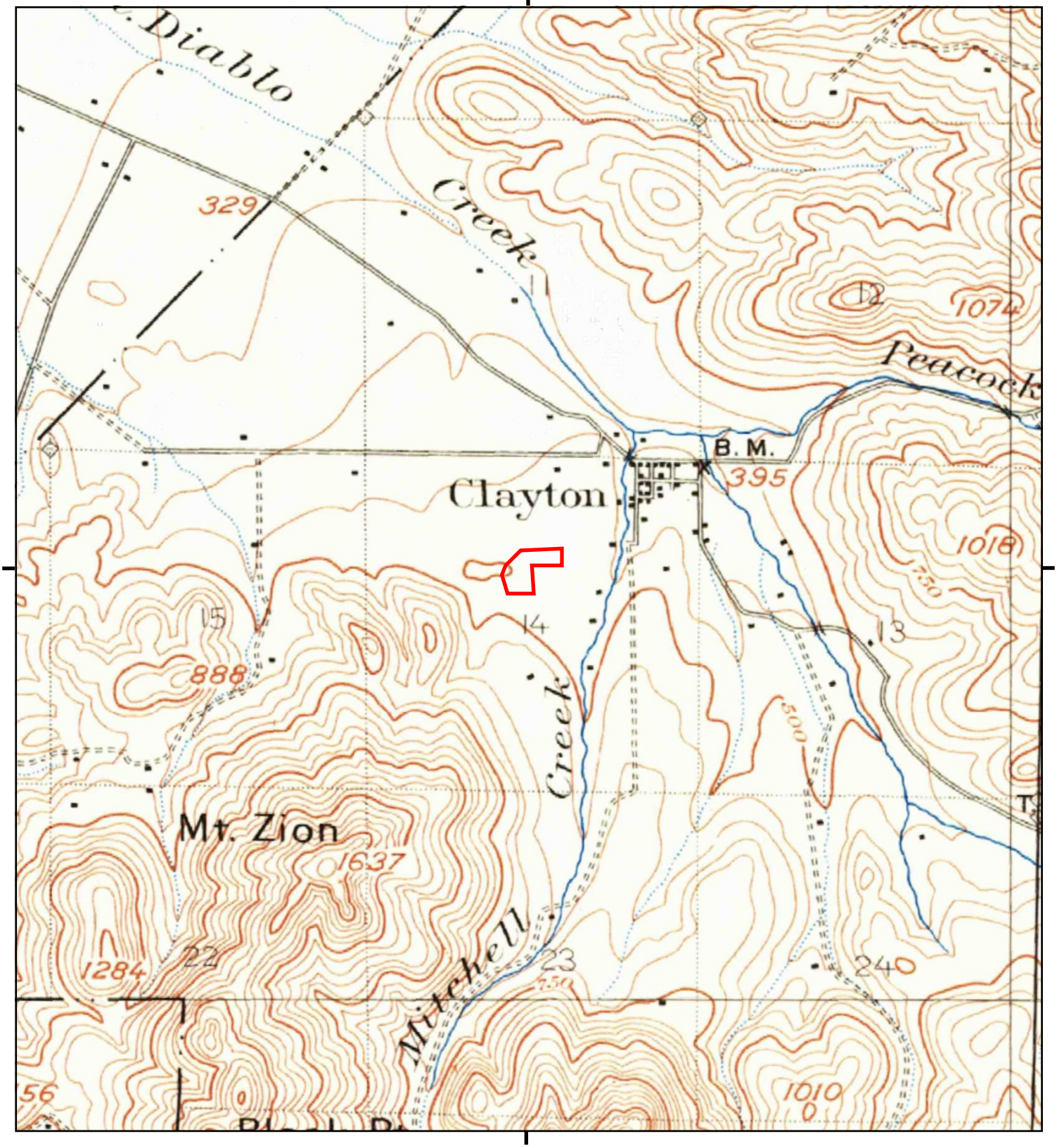
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Diablo, 1898, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Diablo, 1896, 15-minute

SITE NAME: Clayton Trust Property
ADDRESS: Mitchell Canyon Road
Clayton, CA 94517
CLIENT: AdvancedGeo, Inc.

N

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5957509.5
February 05, 2020

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

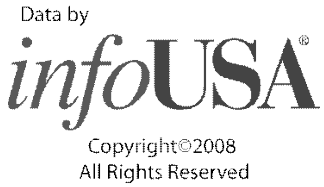
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1989	☑	☐	Haines Criss-Cross Directory
1985	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1975	☑	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

Mitchell Canyon Road
Clayton, CA 94517

Year	*CD Image*	*Source*
MITCHELL CANYON RD		
2014	pg A1	EDR Digital Archive
2010	pg A2	EDR Digital Archive
2005	pg A3	EDR Digital Archive
2000	pg A4	EDR Digital Archive
1995	pg A5	EDR Digital Archive
1992	pg A6	EDR Digital Archive
1989	pg A7	Haines Criss-Cross Directory
1985	pg A8	Haines Criss-Cross Directory
1985	pg A9	Haines Criss-Cross Directory
1980	pg A10	Haines Criss-Cross Directory
1975	pg A11	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2014

96	MITCHELL CANYON VISITOR CENTER
	MOUNT DIABLO SECTOR
	PARKS AND RECREATION CAL DEPT
100	ELLIOTT, JACQUELINE
	KATHY, PRATT
	MORRISON, CAMERON M
	PRATT, KATHY A
	RADWANSKI, STEPHEN
	SCHWARTZ, SUE C
515	CEMEX CNSTR MTLS PCF LLC
555	OCCUPANT UNKNOWN,
835	COOPER, WILLIAM C
895	STICE, JOHN E
999	LUCERO, ELIAZAR
1007	MELIN, BRIAN K
1013	SPENCER, SHAWN R
1019	OCCUPANT UNKNOWN,
1025	JARVIS, MATTHEW
1031	LUCKY, STEVEN W
1068	WESTON, TAMRA S
1074	BARTON, JOHN R
1080	OCCUPANT UNKNOWN,
1086	SCOTT, AMY E
1092	SCHWANDT, JAMES W
1098	LEWIS MICHAEL E
	LEWIS, MICHAEL E
1212	BYRD, KENNETH F

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2010

96	MOUNT DIABLO SECTOR
	STATE PARKS CALIFORNIA
100	KATHY, PRATT
	MORRISON, CAMERON M
	PRATT, KATHY A
	SALMON, EDWARD M
	SCHWARTZ, SUSAN C
	WHITE, TINA L
515	CEMEX MITCHELL
555	OCCUPANT UNKNOWN,
835	COOPER, WILLIAM C
895	SOLSTICE ELECTRIC DESIGN LLC
961	SHINGLETON, ARTHUR D
999	LUCERO, ELIAZAR
1007	TERRY, ANTHONY Y
1013	OCCUPANT UNKNOWN,
1019	OCCUPANT UNKNOWN,
1025	1UP SHIRTS LLC
	HARTLEY, ANNETTE V
1031	WILLERFORD, FRED J
1068	MITOLO KEN CONSTRUCTION
	OCCUPANT UNKNOWN,
1074	SIEGEL, VIRGINIA M
1080	MOLE, GERALD F
1086	FREEMAN, LUCY O
1092	SCHWANDT, JAMES W
1098	LEWIS MICHAEL E
	LEWIS, MIKE E
1212	BYRD, KENNETH F

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2005

515	R M C CEMEX MATERIALS INC
835	VANCE, DAN A
895	ST JUDE TRUST NO 1
	STIELOW, GABRIEL R
901	STICE, JOHN J
961	SHINGLETON, ARTHUR D
999	OCCUPANT UNKNOWN,
1007	TERRY, ANTHONY Y
1013	OCCUPANT UNKNOWN,
1025	HARTLEY, ANNETTE V
1031	WILLERFORD, FRED J
1068	ROUSE, KEVIN R
1074	SIEGEL, VIRGINIA M
1080	OCCUPANT UNKNOWN,
1086	FREEMAN, LUCY O
1092	SCHWANDT, JAMES W
1098	LEWIS MICHAEL E
	LEWIS, MIKE E
1212	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 2000

100 RADWANSKI, S
515 RMC PACIFIC MATERIALS INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 1995

515	RMC LONESTAR
835	CONTRA COSTA HARDWOOD FLR SVC
999	BROKEN WHEEL COCKTAIL LOUNGE
1007	CG ENTERPRISES

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MITCHELL CANYON RD 1992

100	SMITH CUSTOM FIREARMS
515	RMC LONESTAR
555	YANCEY, DAVID B
835	CONTRA COSTA HARDWOOD FLR SVC
895	GARAVENTA, S
898	CUTLER, MARK L
901	STICE, J
910	MAITLAND, JOHN B
999	PETERSON, VERNON L
	WHEEL HOUSE RESTAURANT
1007	CG ENTERPRISES
	GOODYEAR, J R
1019	MARCELLA SHIERS ORIGINAL
1074	WILLIAMSON, RONALD D
1092	SCHWANDT, JAMES

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1989

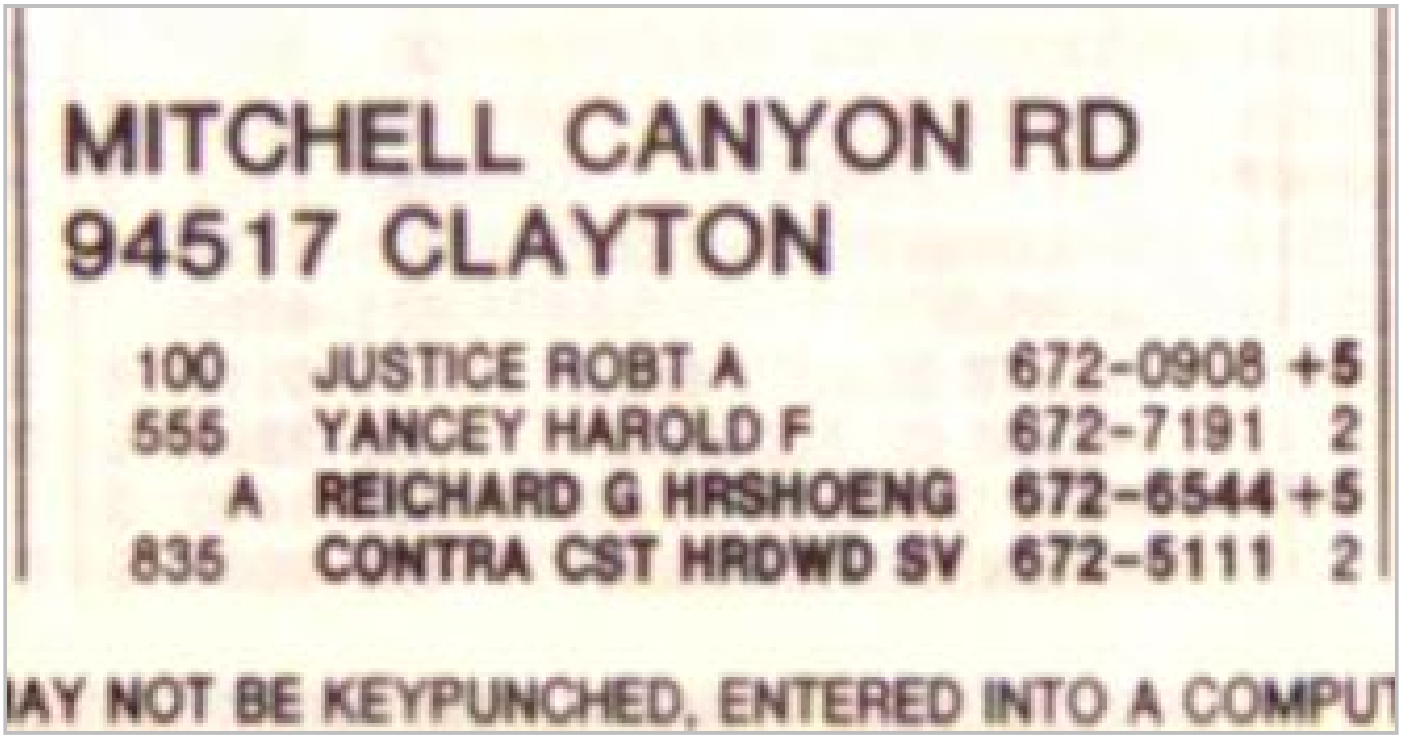
MITCHELL CNYN RD
94517 CLAYTON

100	JUSTICE Irene S	672-0908	
	JUSTICE Robt A	672-0908	
555	YANCEY Harold F	672-7191	2
835	★CONTRA CST HRDWD SV	672-5111	2
	★VANCE DAN	672-5111	2
895	GARAVENTA S	672-5088	2
898	CUTLER Mark L	672-3921	5
901	STICE Julianne	672-5041	5
910	MAITLAND Etta F	672-1418	+9
	MAITLAND John B	672-1418	+9
	MAITLAND Johnny	672-1905	+9
	MAITLAND Joshua	672-1905	+9
961	XXXX	00	
999	PETERSON Vernon L	672-5052	2
1007	★C G ENTERPRISES	672-3456	0
	GOODYEAR J Richard	672-3456	
	GOODYEAR Margery	672-3456	
1013	SPENCER John E	672-5335	
	SPENCER Shawn	672-5335	
1019	XXXX	00	
1025	LARSEN Larry	672-9888	+9
	TIBBITTS Tammie	672-4517	+9
1031	MARTIN Stu	672-1944	+9
1074	WILLIAMSON Ronald D	672-2688	
	WILLIAMSON Sandra	672-2688	
1080	HOOSHMAND B	672-3905	+9
1092	SCHWANDT Christie	672-0199	
	SCHWANDT Jas	672-0199	6
	SCHWANDT Jas	672-7198	7
1098	XXXX	00	
NO #	★CA ST PKS	672-4266	6
NO #	★R M C LONESTAR	672-4900	+9
NO #	RADWANSKI S	672-7289	6
NO #	WILLIAMS Carolyn	672-2758	7
NO #	WILLIAMS Michael A	672-2758	

★ 5 BUS 30 RES 9 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1985



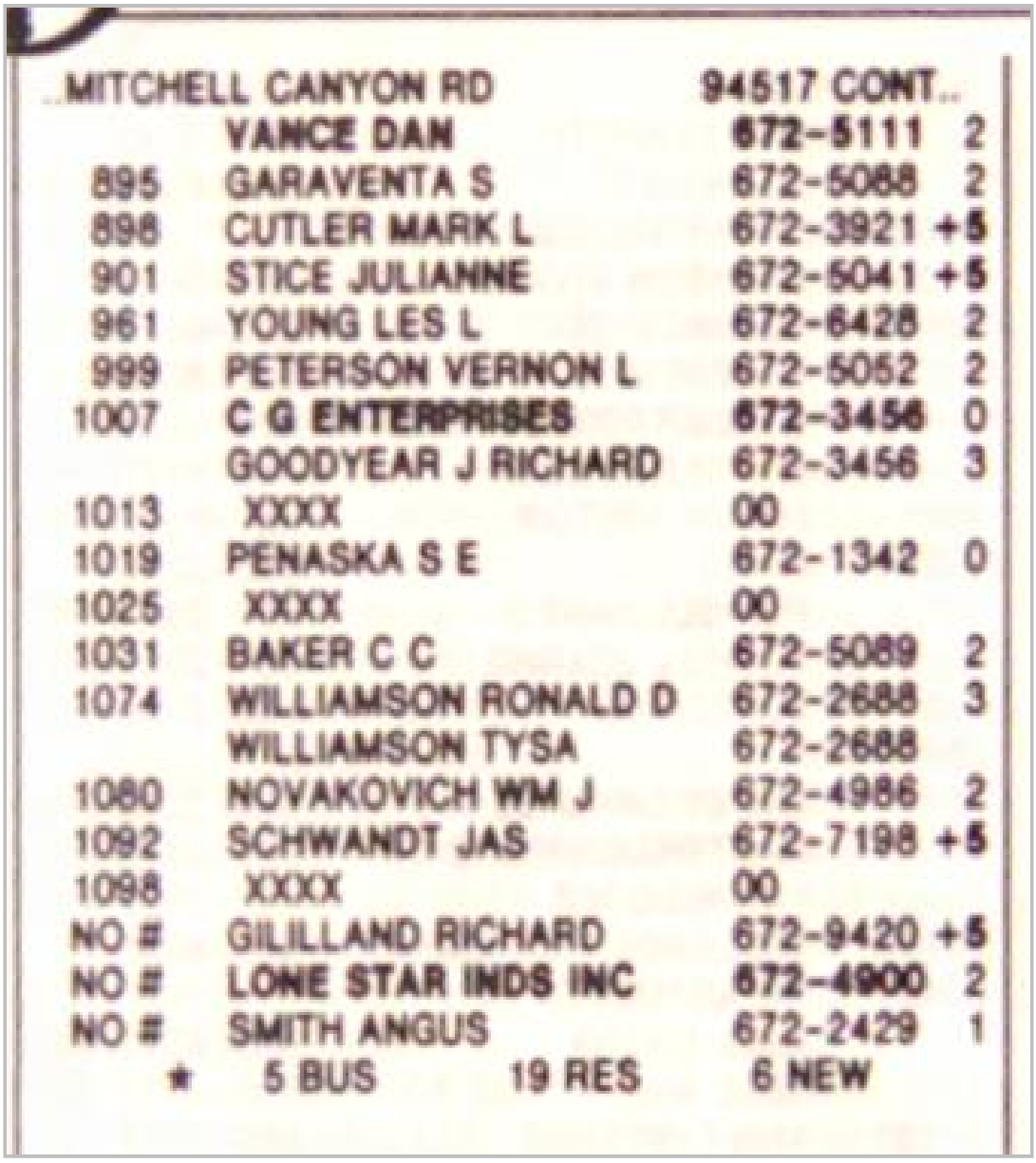
MITCHELL CANYON RD
94517 CLAYTON

100	JUSTICE ROBT A	672-0908	+5
555	YANCEY HAROLD F	672-7191	2
A	REICHARD G HRSHOENG	672-6544	+5
835	CONTRA CST HRDWD SV	672-5111	2

IAY NOT BE KEYPUNCHED, ENTERED INTO A COMPUT

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

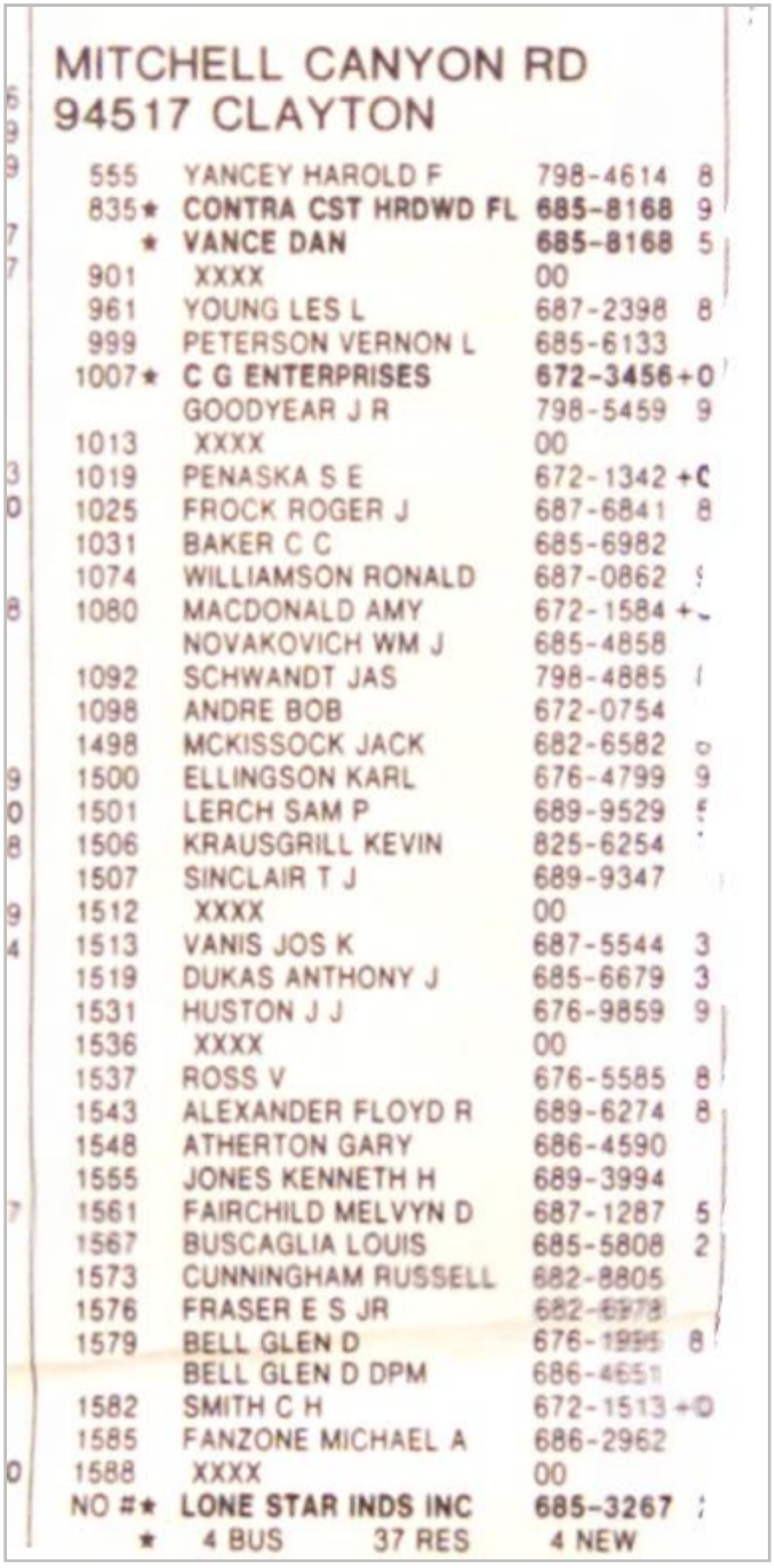
MITCHELL CANYON RD 1985



MITCHELL CANYON RD		94517 CONT..	
	VANCE DAN	672-5111	2
895	GARAVENTA S	672-5088	2
898	CUTLER MARK L	672-3921	+5
901	STICE JULIANNE	672-5041	+5
961	YOUNG LES L	672-6428	2
999	PETERSON VERNON L	672-5052	2
1007	C G ENTERPRISES	672-3456	0
	GOODYEAR J RICHARD	672-3456	3
1013	XXXX	00	
1019	PENASKA S E	672-1342	0
1025	XXXX	00	
1031	BAKER C C	672-5089	2
1074	WILLIAMSON RONALD D	672-2688	3
	WILLIAMSON TYSA	672-2688	
1080	NOVAKOVICH WM J	672-4986	2
1092	SCHWANDT JAS	672-7198	+5
1098	XXXX	00	
NO #	GILILLAND RICHARD	672-9420	+5
NO #	LONE STAR INDS INC	672-4900	2
NO #	SMITH ANGUS	672-2429	1
*	5 BUS 19 RES	6 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1980

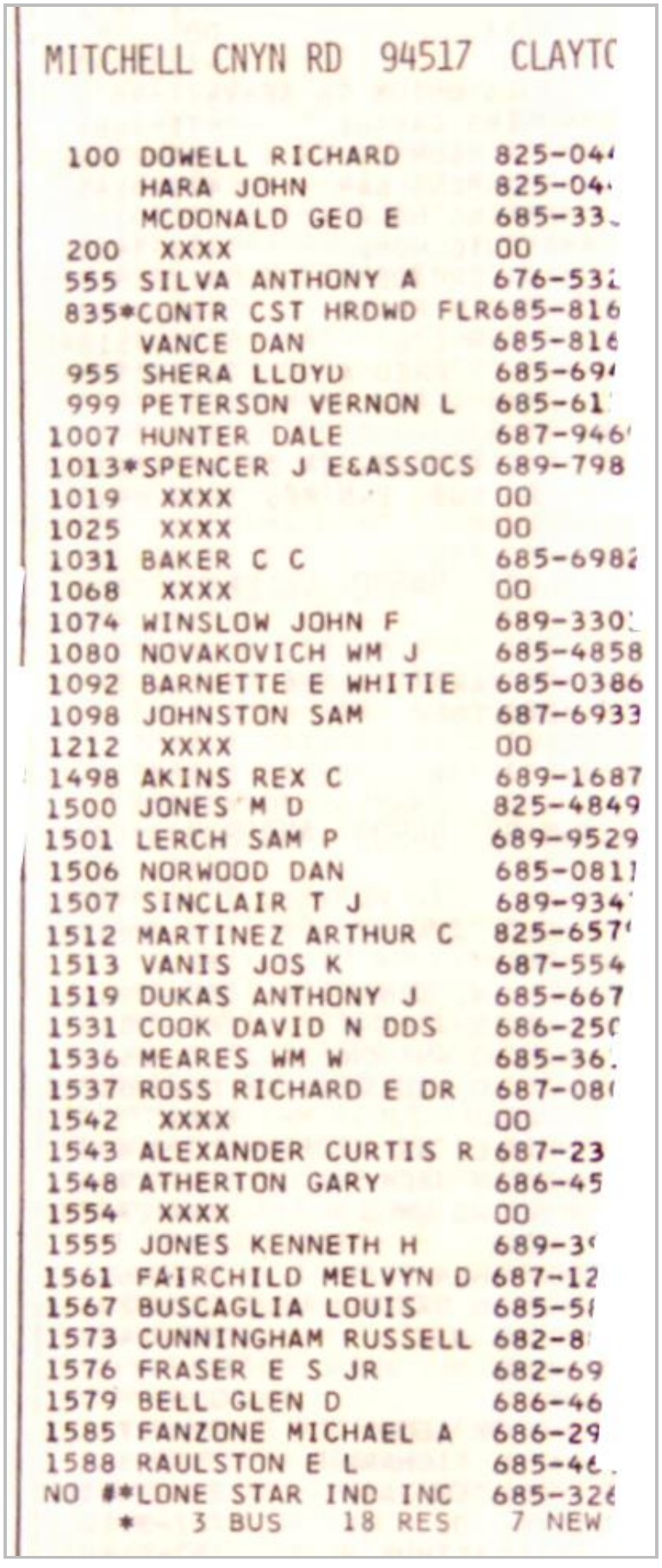


MITCHELL CANYON RD
94517 CLAYTON

555	YANCEY HAROLD F	798-4614	8
835★	CONTRA CST HRDWD FL	685-8168	9
★	VANCE DAN	685-8168	5
901	XXXX	00	
961	YOUNG LES L	687-2398	8
999	PETERSON VERNON L	685-6133	
1007★	C G ENTERPRISES	672-3456	+0
	GOODYEAR J R	798-5459	9
1013	XXXX	00	
1019	PENASKA S E	672-1342	+C
1025	FROCK ROGER J	687-6841	8
1031	BAKER C C	685-6982	
1074	WILLIAMSON RONALD	687-0862	
1080	MACDONALD AMY	672-1584	+
	NOVAKOVICH WM J	685-4858	
1092	SCHWANDT JAS	798-4885	
1098	ANDRE BOB	672-0754	
1498	MCKISSOCK JACK	682-6582	
1500	ELLINGSON KARL	676-4799	9
1501	LERCH SAM P	689-9529	
1506	KRAUSGRILL KEVIN	825-6254	
1507	SINCLAIR T J	689-9347	
1512	XXXX	00	
1513	VANIS JOS K	687-5544	3
1519	DUKAS ANTHONY J	685-6679	3
1531	HUSTON J J	676-9859	9
1536	XXXX	00	
1537	ROSS V	676-5585	8
1543	ALEXANDER FLOYD R	689-6274	8
1548	ATHERTON GARY	686-4590	
1555	JONES KENNETH H	689-3994	
1561	FAIRCHILD MELVYN D	687-1287	5
1567	BUSCAGLIA LOUIS	685-5808	2
1573	CUNNINGHAM RUSSELL	682-8805	
1576	FRASER E S JR	682-6978	
1579	BELL GLEN D	676-1995	8
	BELL GLEN D DPM	686-4651	
1582	SMITH C H	672-1513	+0
1585	FANZONE MICHAEL A	686-2962	
1588	XXXX	00	
NO #★	LONE STAR INDS INC	685-3267	
★	4 BUS 37 RES	4 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MITCHELL CANYON RD 1975



MITCHELL CNYN RD 94517 CLAYTC

100	DOWELL RICHARD	825-04
	HARA JOHN	825-04
	MCDONALD GEO E	685-33
200	XXXX	OO
555	SILVA ANTHONY A	676-53
835*	CONTR CST HRDWD FLR	685-816
	VANCE DAN	685-816
955	SHERA LLOYD	685-69
999	PETERSON VERNON L	685-61
1007	HUNTER DALE	687-946
1013*	SPENCER J E&ASSOCS	689-798
1019	XXXX	OO
1025	XXXX	OO
1031	BAKER C C	685-698
1068	XXXX	OO
1074	WINSLOW JOHN F	689-330
1080	NOVAKOVICH WM J	685-4858
1092	BARNETTE E WHITIE	685-0386
1098	JOHNSTON SAM	687-6933
1212	XXXX	OO
1498	AKINS REX C	689-1687
1500	JONES M D	825-4849
1501	LERCH SAM P	689-9529
1506	NORWOOD DAN	685-081
1507	SINCLAIR T J	689-934
1512	MARTINEZ ARTHUR C	825-657
1513	VANIS JOS K	687-554
1519	DUKAS ANTHONY J	685-667
1531	COOK DAVID N DDS	686-25
1536	MEARES WM W	685-36
1537	ROSS RICHARD E DR	687-08
1542	XXXX	OO
1543	ALEXANDER CURTIS R	687-23
1548	ATHERTON GARY	686-45
1554	XXXX	OO
1555	JONES KENNETH H	689-3
1561	FAIRCHILD MELVYN D	687-12
1567	BUSCAGLIA LOUIS	685-5
1573	CUNNINGHAM RUSSELL	682-8
1576	FRASER E S JR	682-69
1579	BELL GLEN D	686-46
1585	FANZONE MICHAEL A	686-29
1588	RAULSTON E L	685-46
NO #	*LONE STAR IND INC	685-32

* 3 BUS 18 RES 7 NEW

AEI Consultants

August 9, 2019

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Property Information:
Mitchell Canyon Road
Clayton, Contra Costa County, California 94517

Project Information:
AEI Project No. 408841
Client Reference No. 10020157

Prepared For:
Ponderosa Homes
5020 Franklin Drive Suite 200
Pleasanton, California 94588

Prepared By:
AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek, California 94597-3940

Environmental Due Diligence

Building Assessments

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Risk Management

Zoning Analysis Reports & ALTA Surveys

AEI Consultants

August 9, 2019

Carole Morris
Ponderosa Homes
5020 Franklin Drive Suite 200
Pleasanton, California 94588

Subject: **Phase I Environmental Site Assessment**
Mitchell Canyon Road
Clayton, California 94517
AEI Project No. 408841
Client Reference No. 10020157

Dear Carole Morris:

AEI Consultants is pleased to provide the *Phase I Environmental Site Assessment* of the above referenced property. This assessment was authorized and performed in accordance with the scope of services engaged.

We appreciate the opportunity to provide services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (925) 746-6004 or pmcintyre@aeiconsultants.com.

Sincerely,

Peter McIntyre, PG
Executive Vice President
AEI Consultants

PROJECT SUMMARY

Mitchell Canyon Road, Clayton, Contra Costa County, California 94517
AEI Project No. 408841

Report Section		REC	CREC	HREC	OEC	Recommended Action
1.0	Introduction					None
2.0	Site and Vicinity Description					None
3.0	Historical Review of Site and Vicinity				✔	See Findings
4.0	Regulatory Agency Records Review					None
5.0	Regulatory Database Records Review					None
6.0	Interviews and User Provided Information					None
7.0	Site Reconnaissance					None
8.1	Asbestos-Containing Building Materials					None
8.2	Lead-Based Paint					None
8.3	Radon					None
8.4	Mold					None

TABLE OF CONTENTS

EXECUTIVE SUMMARY 5
Findings 6
Conclusions, Opinions, and Recommendations 7
1.0 INTRODUCTION 8
1.1 Scope of Work 8
1.2 Additional Services 8
1.3 Significant Assumptions 8
1.4 Limitations 9
1.5 Limiting Conditions/Deviations 10
1.6 Data Failure and Data Gaps 10
1.7 Reliance 11
2.0 SITE AND VICINITY DESCRIPTION 12
2.1 Site Location and Description 12
2.2 On-Site Utilities 12
2.3 Site and Vicinity Characteristics 12
2.4 Physical Setting 13
3.0 HISTORICAL REVIEW OF SITE AND VICINITY 14
3.1 Aerial Photographs 14
3.2 Sanborn Fire Insurance Maps 15
3.3 City Directories 15
3.4 Historical Topographic Maps 15
3.5 Chain of Title 15
4.0 REGULATORY AGENCY RECORDS REVIEW 16
4.1 Local Environmental Health Department and/or State Environmental Agency 16
4.2 Fire Department 16
4.3 Building Department 16
4.4 Planning Department 16
4.5 Assessor's Office 16
4.6 Other Agencies Searched 17
4.7 Oil and Gas Wells 17
4.8 Oil and Gas Pipelines 17
4.9 State Environmental Superliens 17
4.10 State Property Transfer Laws 17
5.0 REGULATORY DATABASE RECORDS REVIEW 18
5.1 Records Summary 18
5.2 Vapor Migration 19
6.0 INTERVIEWS AND USER PROVIDED INFORMATION 20
6.1 Interviews 20
6.2 User Provided Information 21
6.3 Previous Reports and Other Provided Documentation 22
6.4 Environmental Lien Search 22
7.0 SITE RECONNAISSANCE 23
7.1 Subject Property Reconnaissance Findings 23
7.2 Adjacent Property Reconnaissance Findings 23
8.0 NON-ASTM SERVICES 25
8.1 Asbestos-Containing Building Materials 25

8.2 Lead-Based Paint 25
8.3 Radon 25
8.4 Mold 25
9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS 26
10.0 REFERENCES 27

TABLE OF APPENDICES

APPENDIX A: FIGURES
APPENDIX B: PROPERTY PHOTOGRAPHS
APPENDIX C: REGULATORY DATABASE
APPENDIX D: HISTORICAL SOURCES
APPENDIX E: REGULATORY AGENCY RECORDS
APPENDIX F: OTHER SUPPORTING DOCUMENTATION
APPENDIX G: QUALIFICATIONS
APPENDIX H: LIST OF COMMONLY USED ABBREVIATIONS

EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained by Ponderosa Homes to conduct a Phase I ESA in conformance with AEI's contract and the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Mitchell Canyon Road, Clayton, Contra Costa County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

Pertinent subject property information is noted below:

PROPERTY INFORMATION	
Site Address(es)	Mitchell Canyon Road, Clayton, Contra Costa County, California 94517
Property ID (APN or Block/Lot)	121-090-011-2 and 121-090-016-1
Location	West side of Mitchell Canyon Road
Property Type	Vacant Land
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	8.65/Client provided
Number of Buildings	One ancillary shed
Building Construction Date(s)	N/A
Building Square Footage (SF)/Source	N/A/N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	N/A
Additional Improvements	N/A
On-site Occupant(s)	None identified
Current On-site Operations/Use	None identified - subject property is vacant land
Current Use of Hazardous Substances	None identified
REGULATORY INFORMATION	
Regulatory Database Listing(s)	None identified

A chronological summary of historical subject property information is as follows:

Date Range	Subject Property Description and Occupancy (Historical Addresses)	Source(s)
Prior to 1939	Unknown use/Data failure; refer to Section 1.6.1	Aerial photographs, Sanborn maps, agency records
1939-1958	Agricultural land	Aerial photographs
1963-Present	Vacant land	Aerial photographs

The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Residences (895 Mitchell Canyon Road and 896-910 Mitchell Canyon Lane)	None identified

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
East	Mitchell Canyon Road, followed by: Residences (917-925 Kenston Drive)	None identified
South	Residences (15-28 Herriman Court and 835 Mitchell Canyon Road) and vacant land	None identified
West	Residences (5679-5783 Lewis Way)	None identified

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

FINDINGS

Recognized Environmental Condition (REC) is defined by the ASTM Standard Practice E1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

- AEI did not identify evidence of RECs during the course of this assessment.

Controlled Recognized Environmental Condition (CREC) is defined by the ASTM Standard Practice E1527-13 as a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- AEI did not identify evidence of CRECs during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

- AEI did not identify evidence of HRECs during the course of this assessment.

Other Environmental Considerations (OEC) warrant discussion, but do not qualify as RECs as defined by the ASTM Standard Practice E1527-13. These include, but are not limited to, de minimis conditions and/or environmental considerations such as the presence of ACMs, LBP, radon, mold, and lead in drinking water, which can affect the liabilities and financial obligations of the client, the health and safety of site occupants, and the value and marketability of the subject property.

- Based on a review of aerial photographs, the subject property was historically used for agricultural purposes. There is potential that agricultural chemicals, such as pesticides, herbicides and fertilizers, were used on site, and that the subject property has been impacted by the use of such agricultural chemicals. AEI understands that the subject property is slated for residential redevelopment. According to Mr. Milan Sikela of the Clayton Planning Department, the City of Clayton does not have explicit soil sampling

requirements, but noted that projects may be subject to sampling requirements as part of the redevelopment process under the California Environmental Quality Act (CEQA). Consequently, AEI recommends the performance of on-site sampling to determine if the subject property has been significantly impacted in connection with the historical agricultural use for the protection of the construction workers and future occupants of the subject property.

CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) of Mitchell Canyon Road, Clayton, Contra Costa County, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

AEI did not identify evidence of RECs or CRECs in connection with the property except for those previously identified in the Findings section. AEI recommends the following:

- Subsurface investigation

1.0 INTRODUCTION

This report documents the methods and findings of the Phase I Environmental Site Assessment performed in conformance with AEI's contract and scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Mitchell Canyon Road, Clayton, Contra Costa County, California (Appendix A: Figures and Appendix B: Property Photographs).

1.1 SCOPE OF WORK

The purpose of the Phase I ESA is to assist the client in identifying potential RECs, in accordance with ASTM E1527-13, associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal, and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

1.2 ADDITIONAL SERVICES

Other Environmental Considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by ASTM E1527-13. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

1.3 SIGNIFICANT ASSUMPTIONS

The following assumptions are made by AEI in this report. AEI relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow, unless otherwise specified by on-site well data or well data from the subject property or nearby sites, is inferred from contour information depicted on the USGS topographic maps. AEI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.4 LIMITATIONS

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this assessment apply strictly to the environmental regulations and property conditions existing at the time the assessment was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the assessment.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

If requested by the client, these non-scope issues are discussed herein. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under CERCLA. ASTM Standard Practice E1527-13 and the United States EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C. § 9601(35)(B), referenced in the ASTM Standard Practice E1527-13.
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
3. 42 U.S.C. § 9601(40) and 42 U.S.C. § 9607(q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, current subject property use, and observations and conditions that existed on the date and time of the property reconnaissance.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

AEI's limited radon screening, if included, is intended to provide a preliminary screening to evaluate the potential presence of elevated radon concentrations at the site. The proposed scope is not intended to define the full extent of the presence of radon at the subject property. As such, the results should be used for lending purposes only. The recommendations and conclusions presented as a result of the limited preliminary radon screening apply strictly to the property conditions existing at the time the sampling was performed. The sample analytical results are only valid for the time, place, and condition of the site at the time of collection and AEI does not warrant that the results will be repeatable or are representative of past or future conditions.

1.5 Limiting Conditions/Deviations

The performance of this assessment was limited by the following:

- While additional assessments may have been conducted on the subject property, these documents must be provided for AEI's review in order for the information to be summarized/included in this report. Please refer to Section 6.3 for a summary of previous reports and other documentation provided to AEI during this assessment.
- The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.
- Due to the size of the subject property, AEI performed a reconnaissance of the property utilizing a field technique of traversing the site in an attempt to provide an overlapping field of view. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during AEI's field reconnaissance. Based on the nature of property use, this limitation is not expected to significantly alter the findings of this assessment.

1.6 Data Failure and Data Gaps

According to ASTM E1527-13, data gaps occur when the Environmental Professional is unable to obtain information required by the Standard, despite good faith efforts to gather such information. Pursuant to ASTM E1527-13, only significant data gaps, defined as those that affect the ability of the Environmental Professional to identify RECs, need to be documented.

Data failure is one type of data gap. According to ASTM E1527-13, data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E1527-13, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier, or periods of five years or greater.

1.6.1 DATA FAILURE

The following data failure was identified during the course of this assessment:

Data Failure	The earliest historical resource obtained during this assessment was an aerial photograph from 1939 indicating that the subject property was developed agriculturally. The lack of historical sources for the subject property dating back to first developed use represents historical data source failure. However, as it is assumed that the subject property would have been previously used for agricultural purposes, if not undeveloped, this data failure is not expected to significantly alter the findings of this assessment.
Information/Sources Consulted	City directories, Sanborn fire insurance maps, aerial photographs, agency records, previous reports, interviews

1.6.2 SIGNIFICANT DATA GAPS

AEI did not identify significant data gaps which affected our ability to identify RECs.

1.7 RELIANCE

All reports, both verbal and written, are for the benefit of Ponderosa Homes. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's contract and Terms and Conditions executed by Ponderosa Homes on July 10, 2019. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

2.0 SITE AND VICINITY DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

PROPERTY INFORMATION	
Site Address(es)	Mitchell Canyon Road, Clayton, Contra Costa County, California 94517
Property ID (APN or Block/Lot)	121-090-011-2 and 121-090-016-1
Location	West side of Mitchell Canyon Road
Property Type	Vacant Land
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	8.65/Client provided
Number of Buildings	One ancillary shed
Building Construction Date(s)	N/A
Building Square Footage (SF)/Source	N/A/N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	N/A
Additional Improvements	N/A
On-site Occupant(s)	None identified
Current On-site Operations/Use	None identified - subject property is vacant land
Current Use of Hazardous Substances	None identified
REGULATORY INFORMATION	
Regulatory Database Listing(s)	None identified

2.2 ON-SITE UTILITIES

Utility	Source/System Information
Heating System	PG&E
Cooling System	PG&E
Potable Water	Contra Costa Water District
Sewage Disposal/Treatment	City of Clayton

Utility source/system information listed in the table above is provided by online research, unless otherwise noted above. The above information describes the utility information that serves the surrounding area.

2.3 SITE AND VICINITY CHARACTERISTICS

The subject property is located in a residential area of Clayton, California. The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Residences (895 Mitchell Canyon Road and 896-910 Mitchell Canyon Lane)	None identified

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
East	Mitchell Canyon Road, followed by: Residences (917-925 Kenston Drive)	None identified
South	Residences (15-28 Herriman Court and 835 Mitchell Canyon Road) and vacant land	None identified
West	Residences (5679-5783 Lewis Way)	None identified

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

2.4 PHYSICAL SETTING

Geologic Unit: Description/Source	Qa: Surficial sediments, alluvial gravel, san and clay of valley areas, age late Holoocene/USGS and United States Department of the Interior
Soil Series: Description/Source	PaC: Perkins gravelly loam, gravelly loam to gravelly clay loam; and GcE: Gilroy clay loam, clay loam to very gravelly loam to bedrock/USDA Soil Survey
Groundwater Flow Direction/Source	Northeast/Topographic map interpretation
Estimated Depth to Groundwater/ Source	Greater than 50 feet bgs/Groundwater data for the nearby site at 2484 Pine Hollow Road, obtained from GeoTracker
Surface waters on the subject property or adjacent sites	None
Additional notes	None

Note: Groundwater flow direction can be influenced locally and regionally by the presence of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells. Depth and gradient of the water table can change seasonally in response to variation in precipitation and recharge, and over time, in response to urban development such as storm water controls, impervious surfaces, pumping wells, cleanup activities, dewatering, seawater intrusion barrier projects near the coast, and other factors.

3.0 HISTORICAL REVIEW OF SITE AND VICINITY

Reasonably ascertainable standard historical sources as outlined in ASTM Standard E1527-13 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historical city directories, Sanborn fire insurance maps, and agency records, is as follows:

Date Range	Subject Property Description and Occupancy (Historical Addresses)	Source(s)
Prior to 1939	Unknown use/Data failure; refer to Section 1.6.1	Aerial photographs, Sanborn maps, agency records
1939-1958	Agricultural land	Aerial photographs
1963-Present	Vacant land	Aerial photographs

Based on a review of aerial photographs, the subject property was historically used for agricultural purposes. There is potential that agricultural chemicals, such as pesticides, herbicides and fertilizers, were used on site, and that the subject property has been impacted by the use of such agricultural chemicals. AEI understands that the subject property is slated for residential redevelopment. According to Mr. Milan Sikela of the Clayton Planning Department, the City of Clayton does not have explicit soil sampling requirements, but noted that projects may be subject to sampling requirements as part of the redevelopment process under the California Environmental Quality Act (CEQA). Consequently, AEI recommends the performance of on-site sampling to determine if the subject property has been significantly impacted in connection with the historical agricultural use for the protection of the construction workers and future occupants of the subject property.

If available, copies of historical sources are provided in the report appendices.

3.1 AERIAL PHOTOGRAPHS

AEI reviewed aerial photographs of the subject property and surrounding area. A search was made of the EDR collection of aerial photographs. Aerial photographs were reviewed for the following years:

Year(s)	Subject Property Description	Adjacent Site Descriptions
1939, 1946, 1949, 1950, 1958	Agricultural land including orchards	NORTH: Agricultural land EAST: A road, followed by agricultural land SOUTH: Agricultural land WEST: Agricultural land
1963	Vacant land with remnants of orchards	NORTH: Vacant land EAST: A road, followed by residences SOUTH: Vacant land WEST: Vacant land

Year(s)	Subject Property Description	Adjacent Site Descriptions
1966	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: Developed with the existing residences WEST: No significant changes
1979, 1982	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: Developed with the existing residences
1993, 1998, 2006, 2009, 2012, 2016	Vacant land with a small ancillary structure in the northwestern portion of the subject property	NORTH: Developed with the existing residences EAST: No significant changes SOUTH: No significant changes WEST: No significant changes

Based on a review of aerial photographs, the subject property appears to have been developed with agricultural land from at least 1939 to 1958, please refer to Section 3.0 for additional information.

3.2 Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the EDR collection of Sanborn Fire Insurance maps.

Sanborn map coverage was not available for the subject property.

3.3 City Directories

Since the subject property has never been developed, no physical address has been provided to or identified by AEI during the course of this assessment. Based on the lack of physical address, a search of city directories for the subject property was not feasible.

3.4 Historical Topographic Maps

Based on the quality of information obtained from other sources, historical topographic maps were not reviewed as a part of this assessment.

3.5 Chain of Title

Based on the quality of information obtained from other sources, a chain of title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous substance use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to AULs, defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1 LOCAL ENVIRONMENTAL HEALTH DEPARTMENT AND/OR STATE ENVIRONMENTAL AGENCY

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Hazardous Materials Programs (CCCHMP)	July 17, 2019	Email	Ms. Alex McMullen	No records on file

4.2 FIRE DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Fire Protection District (CCCFPD)	July 17, 2019	Email	Ms. Cindy McGrath	No records on file

4.3 BUILDING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Clayton Building Department (CBD)	July 31, 2019	Telephone	Staff	No records on file

4.4 PLANNING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Clayton Planning Department (CPD)	July 17, 2019	Telephone	Mr. Milan Sikela	No evidence indicating the existence of AULs on file for the subject property

4.5 ASSESSOR'S OFFICE

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Assessor's Office	July 17, 2019	Website	N/A	Information obtained is discussed below

Records Summary

APN	121-090-011-2 and 121-090-016-1
Acreage	8.65 acres
Construction Date	N/A

Building Square Footage	N/A square feet
Current Owner	Fred Clayton and Karen Isobe Trust

4.6 Other Agencies Searched

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
CA State Water Resources Control Board (SWRCB) GeoTracker	July 17, 2019	Website	N/A	No records on file
CA Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System (HWTS)	July 17, 2019	Website	N/A	No records on file
CA DTSC EnviroStor	July 17, 2019	Website	N/A	No records on file
Bay Area Air Quality Management District (BAAQMD)	July 17, 2019	Website	Ms. Rochelle Reed	No records on file

No other agencies were contacted during the course of this assessment.

4.7 Oil and Gas Wells

Agency	Date Referenced	Resource	Oil or gas wells located within 500 feet of the subject property
State of California Department of Conservation, Division of Oil, Gas & Geothermal Resources (CA DOGGR)	July 17, 2019	CA DOGGR Map	No

4.8 Oil and Gas Pipelines

Agency	Date Referenced	Resource	Pipelines located within 500 feet of the subject property
National Pipeline Mapping System (NPMS)	July 17, 2019	NPMS Public Map Viewer	No

4.9 State Environmental Superliens

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state environmental superliens.

4.10 State Property Transfer Laws

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state property transfer laws.

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted EDR to conduct a search of publicly available information from federal, state, tribal, and local databases containing known and suspected sites of environmental contamination and sites of potential environmental significance. Data gathered during the current regulatory database search is compiled by EDR into one regulatory database report. Location information for listed sites is designated using geocoded information provided by federal, state, or local agencies and commonly used mapping databases with the exception of "Orphan" sites. Due to poor or inadequate address information, Orphan sites are identified but not geocoded/mapped by EDR, rather, information is provided based upon vicinity zip codes, city name, and state. The number of listed sites identified within the approximate minimum search distance from the federal and state environmental records database listings specified in ASTM Standard E1527-13 is summarized in Section 5.1, along with the total number of Orphan sites. A copy of the regulatory database report, which includes detailed descriptions of the databases noted below, is included in Appendix C of this report.

In determining if a listed site is a potential environmental concern to the subject property, AEI generally applies the following criteria to classify the site as lower potential environmental concern: 1) the site only holds an operating permit (which does not imply a release), 2) the site's distance from, and/or topographic position relative to, the subject property, and/or 3) the site has recently been granted "No Further Action" by the appropriate regulatory agency.

Regulatory database listings associated with the subject property, adjacent site(s) and/or nearby sites of concern that were determined to warrant additional discussion are identified and further discussed in Section 5.1.

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
NPL	1.0	0			
DELISTED NPL	0.5	0			
SEMS/CERCLIS	0.5	0			
SEMS-ARCHIVE/CERCLIS NFRAP	0.5	0			
RCRA CORRACTS	1.0	0			
RCRA-TSDF	0.5	0			
RCRA LQG, SQG, CESQGs, NLR	SP/ADJ	0			
US ENG CONTROLS	SP	0			
US INST CONTROLS	SP	0			
ERNS	SP	0			
STATE/TRIBAL HWS	1.0	0			
STATE/TRIBAL SWLF	0.5	0			
STATE/TRIBAL REGISTERED STORAGE TANKS	SP/ADJ	0			
STATE/TRIBAL LUST	0.5	2			

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
STATE/TRIBAL EC and IC	SP	0			
STATE/TRIBAL VCP	0.5	0			
STATE/TRIBAL BROWNFIELD	0.5	0			
ORPHAN	N/A	0			
ADDITIONAL ENVIRONMENTAL RECORD SOURCES	SP/ADJ	0			

5.2 VAPOR MIGRATION

AEI reviewed reasonably ascertainable information for the subject and nearby properties, including a regulatory database, files for nearby release sites, and/or historical documentation, to determine if potential vapor-phase migration concerns may be present which could impact the subject property.

Based on a review of available resources as documented in this report, AEI did not identify significant on-site concerns and/or regulated listings from nearby sites which suggest that a vapor-phase migration concern currently exists at the subject property.

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to ASTM E1527-13, the following interviews were performed during this assessment in order to obtain information indicating RECs in connection with the subject property.

6.1.1 OWNER AND KEY SITE MANAGER

Relation to Property	Name	Date Interviewed	Method of Contact	Year First Associated w/ Property	Notes
Owner/Owner Representative	Fred Clayton and Karen Isobe Trust	Aaugust 5, 2019	Email	Circa 1970	Interviewed; see Interview Summary table below
Key Site Manager	Mr. Bruce Bauer	July 31, 2019	In Person	Unknown	Interviewed; see Interview Summary table below

Interview Summary

Question	Owner (Representative) Response/ Comment	Key Site Manager Response/ Comment
Do you have any knowledge of USTs, clarifiers or oil/water separators, sumps, or other subsurface features?	No	No
Do you have any knowledge of previous environmental investigations conducted on site?	No	No
Do you have any knowledge of current or past industrial operations and/or other operations which would involve the use of hazardous substances and/or petroleum products?	No	No
Are you aware of any known plans for site redevelopment or change in site use?	No	No
Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	No	No
Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	No	No
Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	No	No
Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?	No	No
Additional information provided:	N/A	N/A

6.1.2 PAST OWNERS, OPERATORS, AND OCCUPANTS

AEI did not attempt to interview past owners, operators, and occupants of the subject property because information from these sources would likely be duplicative of information already

obtained from other sources.

6.1.3 Interview with Others

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this report.

6.2 User Provided Information

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to ASTM E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the Environmental Professional. The responsibility for qualifying for LLPs by conducting the inquiries ultimately rests with the User, and providing the information to the Environmental Professional would be prudent if such information is available.

The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.

Question	Response/ Comment
1. Environmental liens that are filed or recorded against the property (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	Information not provided
2. Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)). Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	Information not provided
3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	Information not provided
4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	Information not provided

Question	Response/ Comment
5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example: (a) Do you know the past uses of the property? (b) Do you know of specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemical releases that have taken place at the property? (d) Do you know of any environmental cleanups that have taken place at the property?	Information not provided
6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	Information not provided

6.3 Previous Reports and Other Provided Documentation

No prior reports or other relevant documentation in association with the subject property was made available to AEI during the course of this assessment.

6.4 Environmental Lien Search

In accordance with our approved scope of services, an environmental lien search was not performed as part of this assessment.

7.0 SITE RECONNAISSANCE

Site Reconnaissance Date	July 31, 2019
AEI Site Assessor(s)	Lea Palumbo
Property Escort(s)/ Relationship(s) to Property	N/A
Units/Areas Observed	Representative portions of the subject property
Area(s) not accessed and reason(s)	The interior of the ancillary shed on site Refer to Section 1.5 for discussion of limiting condition(s).
Other Physical Constraints	None

Reconnaissance Findings Summary

Feature	Observed on Subject Property (see Section 7.1)	Observed on Adjacent Property (see Section 7.2)
Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use		
Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)		
Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use		
Unidentified Substance Containers		
Electrical or Mechanical Equipment Likely to Contain Fluids		✔
Interior Stains or Corrosion		
Strong, Pungent, or Noxious Odors		
Pools of Liquid		
Drains, Sumps, and Clarifiers		✔
Pits, Ponds, and Lagoons		
Stained Soil or Pavement		
Stressed Vegetation		
Solid Waste Disposal or Evidence of Fill Materials		
Waste Water Discharges		
Wells		
Septic Systems		
Biomedical Wastes		
Other		

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI did not observe any of the items listed in the above Reconnaissance Findings Summary table.

7.2 ADJACENT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

ELECTRICAL OR MECHANICAL EQUIPMENT LIKELY TO CONTAIN FLUIDS

Toxic PCBs were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR, Part 761, there are three categories for classifying such equipment: <50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and >500 ppm is considered "PCB-Containing." Pursuant to 15 U.S.C. 2605(e)(2)(A), the manufacture, process, or distribution in commerce or use of any polychlorinated biphenyl in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Transformers

The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

Several pole-mounted transformers were observed on the adjacent sites during the site reconnaissance. No spills, staining, or leaks were observed on or around the transformers. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern.

DRAINS, SUMPS, AND CLARIFIERS

Several storm drains were observed in the parking areas of the adjacent properties and adjacent roadways. AEI did not observe evidence of hazardous substances or petroleum products in the vicinity of the drains. Based on the use of the drains solely for storm water runoff, the presence of the drains is not expected to represent a significant environmental concern.

8.0 NON-ASTM SERVICES

8.1 ASBESTOS-CONTAINING BUILDING MATERIALS

The subject property is currently vacant land or lacks structures. Consequently, no building components containing suspect asbestos containing materials were identified during the site inspection.

8.2 LEAD-BASED PAINT

The subject property is currently vacant land or lacks structures. Consequently, AEI did not observe building components likely to contain suspect LBP during the site reconnaissance.

8.3 RADON

Radon is a naturally-occurring, odorless, and invisible gas. Natural radon levels vary and are closely related to geologic formations. Radon may enter buildings through basement sumps or other openings.

Radon sampling was not requested as part of this assessment. According to the California Department of Health Services Radon Database, 6 tests were conducted for radon levels in the subject property zip code (94517) in 2016. All of these tests indicated that radon levels were below the action level of 4.0 pCi/L set forth by the US EPA. Therefore, radon is not expected to represent a significant environmental concern.

8.4 MOLD

The subject property is currently vacant land or lacks structures. Consequently, mold was not addressed as part of this assessment.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



Lea Palumbo
Project Manager

Reviewed By:



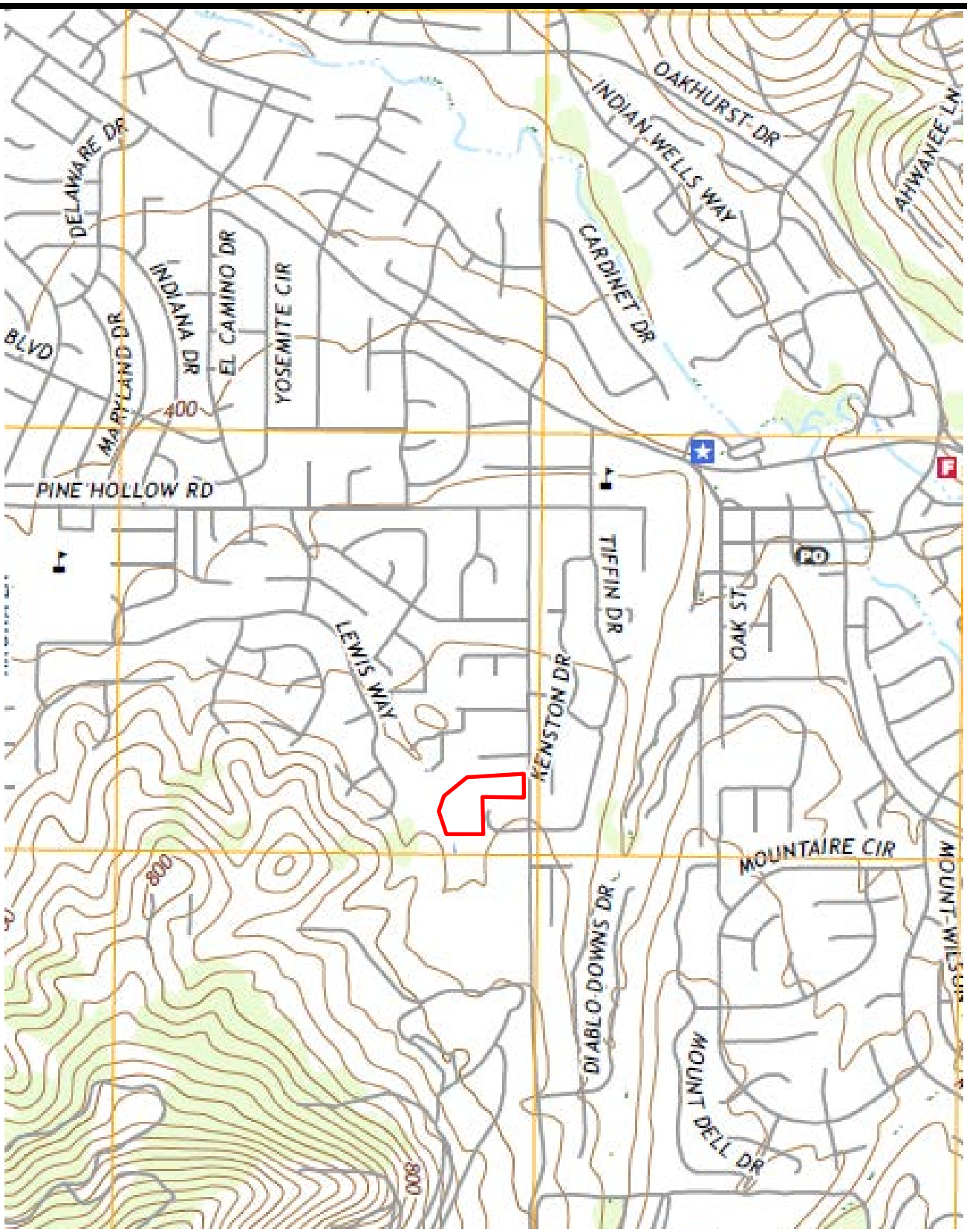
Richard D. Fehler
Senior Author

10.0 REFERENCES

Item	Date(s)	Source
Soils Information	Accessed July 2019	USDA Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Topographic Map	2018	USGS, Clayton
Depth to Groundwater Information	March 26, 1997	Groundwater data for the nearby site at 2484 Pine Hollow Road, obtained from GeoTracker
Aerial Photographs	1939-2016 (non-inclusive)	EDR
Sanborn Map Report/Search	July 17, 2019	EDR
City Directories	July 17, 2019	AEI's private collection of Haines and Company Criss-Cross Directories
Environmental Health Department	July 17, 2019	Contra Costa County Hazardous Materials Programs
Fire Department	July 17, 2019	Contra Costa County Fire Protection District
Building Department	July 31, 2019	Clayton Building Department
Planning Department	July 17, 2019	Clayton Planning Department
Assessor's Information and Parcel Map	July 17, 2019	Contra Costa County Assessor's Office
Other Agencies Searched	July 17, 2019	SWRCB GeoTracker, DTSC HWTS, and DTSC EnviroStor databases, BAAQMD
Oil and Gas Wells	July 17, 2019	State of California Department of Conservation, Division of Oil, Gas & Geothermal Resources
Oil and Gas Pipelines	July 17, 2019	NPMS Public Map Viewer https://www.npms.phmsa.dot.gov/PublicViewer/composite.jsf
Regulatory Database Report	July 17, 2019	EDR
Interview with Key Site Manager	July 31, 2019	Mr. Bruce Bauer
Radon Zone Information	2016	California DPH

APPENDIX A

FIGURES



Legend
Approximate Property Boundary
Source: USGS Topographic Map *Clayton, California* (2018)

N

Figure 1: TOPOGRAPHIC MAP

Mitchell Canyon Road, Clayton, California 94517
Project Number: 408841

AEI Consultants



Legend
Estimated Groundwater Flow Direction
Approximate Property Boundary
Listed in Environmental Database Report ☐

N

Figure 2: SITE MAP

Mitchell Canyon Road, Clayton, California 94517
Project Number: 408841

AEI Consultants

APPENDIX B

PROPERTY PHOTOGRAPHS



1. West-facing view of subject property from Mitchell Canyon Road



2. View of north portion of subject property



3. View of northeast portion of subject property



4. View of subject property and south adjacent residence



5. East-facing view of subject property



6. View of subject property and west adjacent residences



7. View of shed on northwest portion of subject property



8. View of shed on northwest portion of subject property



9. View of water pump on subject property



10. View of mowers on subject property



11. View of north adjacent residence



12. View of east adjacent residences

APPENDIX C

REGULATORY DATABASE

408841
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5720065.2s
July 17, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	70
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-11
Physical Setting Source Map Findings	A-13
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MITCHELL CANYON ROAD
CLAYTON, CA 94517

COORDINATES

Latitude (North):	37.9355150 - 37° 56' 7.85''
Longitude (West):	121.9432540 - 121° 56' 35.71''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592864.2
UTM Y (Meters):	4198981.5
Elevation:	506 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
MITCHELL CANYON ROAD
CLAYTON, CA 94517

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	ZACK & KIKI TURNIN	1205 AMARANTH DR	RCRA NonGen / NLR	Lower	1057, 0.200, NW
2	MICHAEL SIBBITT	890 COACHMAN PLACE	RCRA NonGen / NLR	Lower	1150, 0.218, SE
3	CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	MINES	Higher	1242, 0.235, SSW
4	CEMEX CONSTRUCTION M	515 MITCHELL CANYON	LUST, AST, CERS HAZ WASTE, SWEEPS UST, CERS TANKS,	Higher	1404, 0.266, SSW
5	KAISER SAND & GRAVEL	2484 PINE HOLLOW RD	LUST, HIST CORTESE, CERS	Lower	2433, 0.461, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR ---------- EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
UST ---------- Active UST Facilities
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE	CERS HAZ WASTE
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
CONTRA COSTA CO. SITE LIST	Site List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CONSTRUCTION M	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***4***	***11***

Database: LUST, Date of Government Version: 12/10/2018
Database: LUST REG 2, Date of Government Version: 09/30/2004
Status: Completed - Case Closed
Facility Id: 07-0475
Facility Status: Case Closed
Global Id: T0601300439
date9: 1/15/1997

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***5***	***67***

Database: LUST, Date of Government Version: 12/10/2018
Database: LUST REG 2, Date of Government Version: 09/30/2004
Status: Completed - Case Closed
Facility Id: 07-0595

Facility Status: Case Closed
Global Id: T0601300548
date9: 3/26/1997

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ZACK & KIKI TURNIN EPA ID:: CAC002994440	1205 AMARANTH DR	NW 1/8 - 1/4 (0.200 mi.)	1	8
MICHAEL SIBBITT EPA ID:: CAC002967480	890 COACHMAN PLACE	SE 1/8 - 1/4 (0.218 mi.)	2	9

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CONSTRUCTION M Reg Id: 07-0475	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***4***	***11***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL Reg Id: 07-0595	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***5***	***67***

MINES: A listing of mine site locations from the Office of Mine Reclamation.

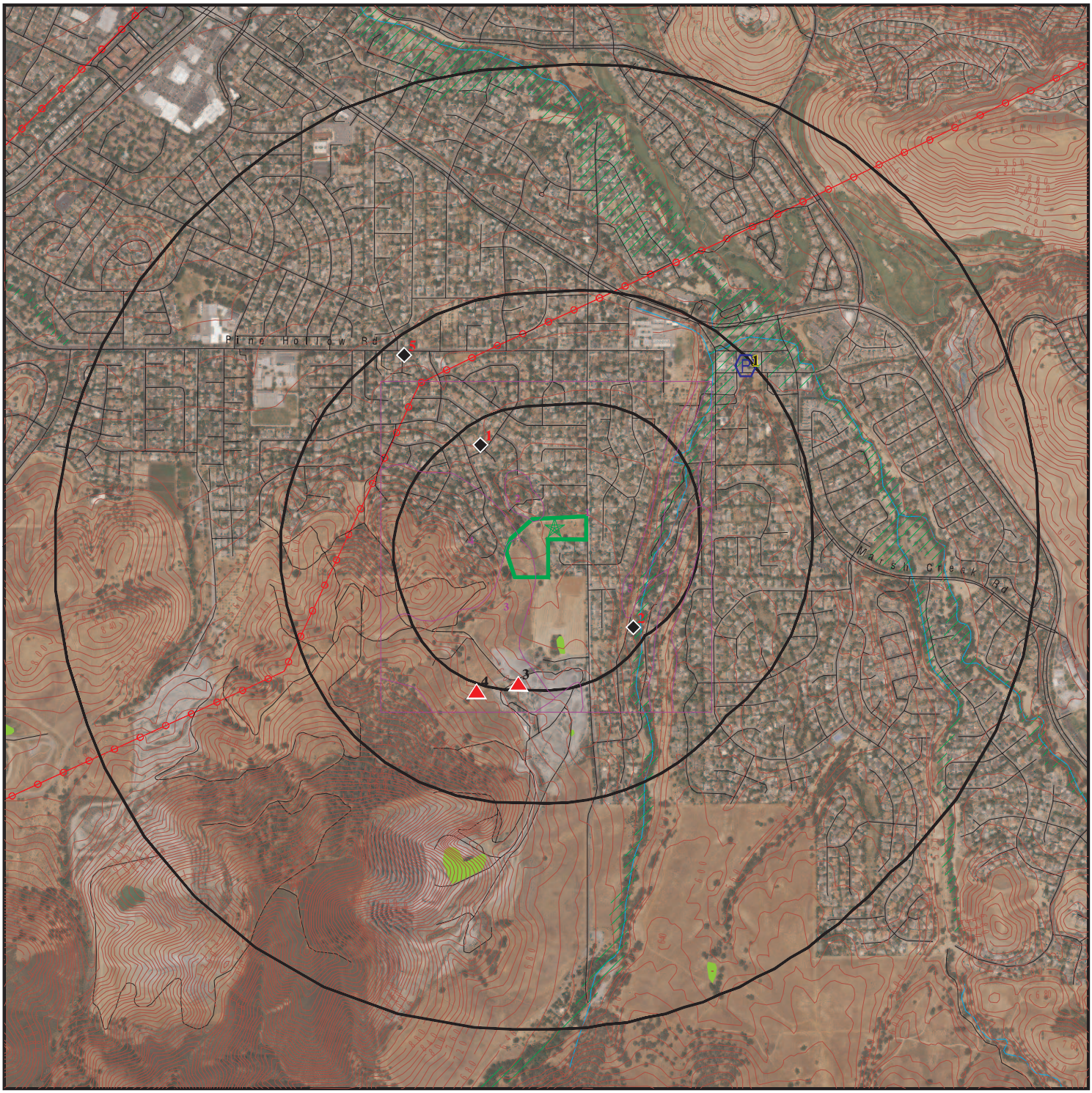
A review of the MINES list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	SSW 1/8 - 1/4 (0.235 mi.)	3	10

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5720065.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

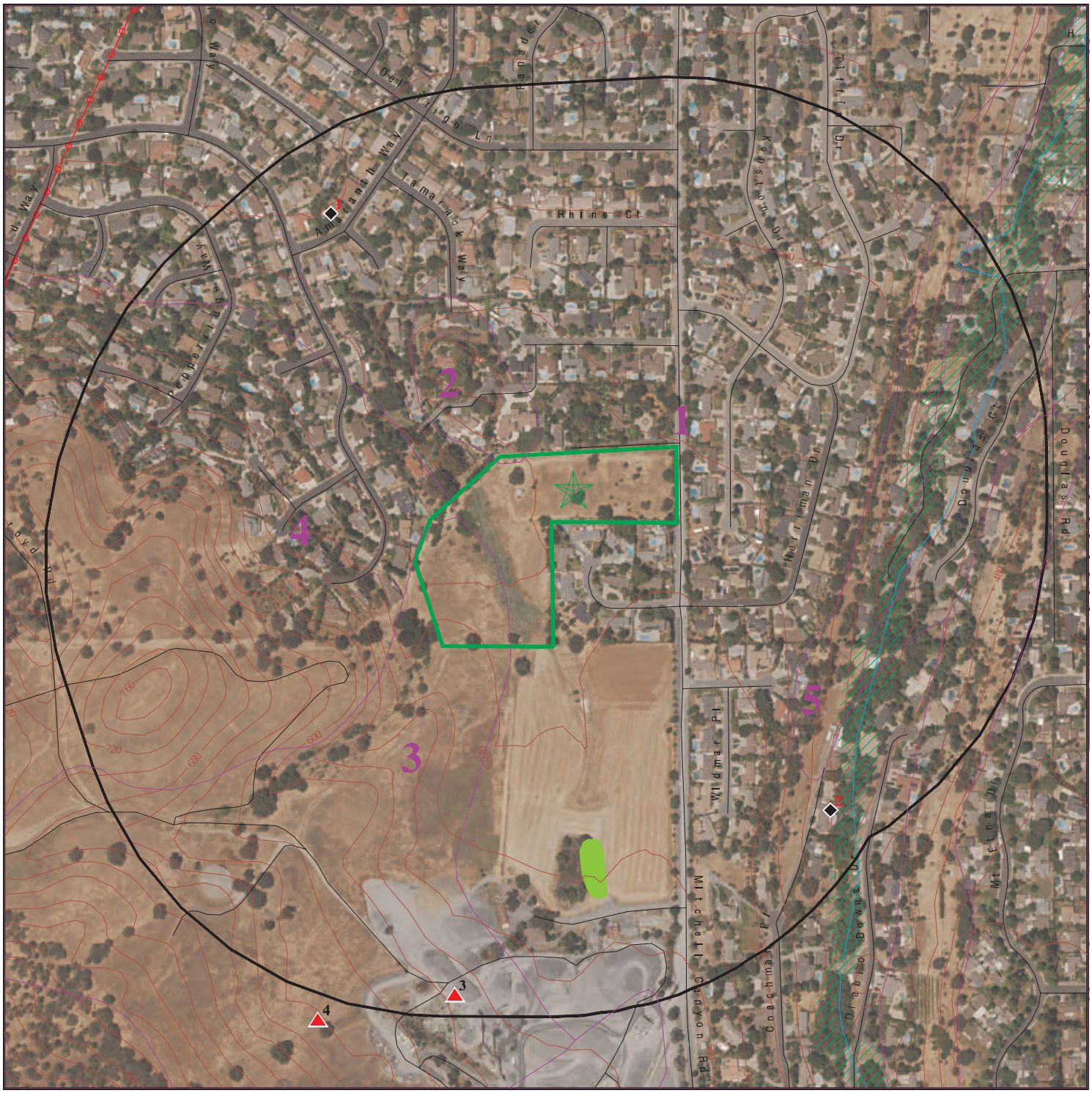
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 408841	CLIENT: AEI Consultants
ADDRESS: Mitchell Canyon Road Clayton CA 94517	CONTACT: Tony Chilese
LAT/LONG: 37.935515 / 121.943254	INQUIRY #: 5720065.2s DATE: July 17, 2019 7:58 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5720065.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 408841	CLIENT: AEI Consultants
ADDRESS: Mitchell Canyon Road Clayton CA 94517	CONTACT: Tony Chilese INQUIRY #: 5720065.2s
LAT/LONG: 37.935515 / 121.943254	DATE: July 17, 2019 8:02 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	1	NR	NR	NR	1
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
CONTRA COSTA CO. SITE LIST	0.250		0	0	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	3	4	0	0	7

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NW
1/8-1/4
0.200 mi.
1057 ft.

ZACK & KIKI TURNIN
1205 AMARANTH DR
CONCORD, CA 94521

RCRA NonGen / NLR

1024774518
CAC002994440

Relative:
Lower

Actual:
463 ft.

RCRA NonGen / NLR:

Date form received by agency:	12/27/2018
Facility name:	ZACK & KIKI TURNIN
Facility address:	1205 AMARANTH DR CONCORD, CA 94521
EPA ID:	CAC002994440
Contact:	ZACK & KIKI TURNIN
Contact address:	1205 AMARANTH DR CONCORD, CA 94521
Contact country:	Not reported
Contact telephone:	925-914-1336
Contact email:	ELIZABETH.GARCIA@SYNERGYCOMPANIES.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

ZACK & KIKI TURNIN (Continued) **1024774518**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

2 **MICHAEL SIBBITT** **RCRA NonGen / NLR** **1024747703**
SE **890 COACHMAN PLACE** **CAC002967480**
1/8-1/4 **CLAYTON, CA 94517**
0.218 mi.
1150 ft.

Relative:
Lower

Actual:
462 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/20/2018
Facility name:	MICHAEL SIBBITT
Facility address:	890 COACHMAN PLACE CLAYTON, CA 94517
EPA ID:	CAC002967480
Contact:	MICHAEL SIBBITT
Contact address:	890 COACHMAN PLACE CLAYTON, CA 94517
Contact country:	Not reported
Contact telephone:	925-323-8667
Contact email:	NICOLE@ENV-REM.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MICHAEL SIBBITT
Owner/operator address:	890 COACHMAN PLACE CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	925-323-8667
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MICHAEL SIBBITT
Owner/operator address:	890 COACHMAN PLACE CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	925-323-8667
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

MICHAEL SIBBITT (Continued) **1024747703**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

3 **CEMEX CLAYTON QUARRY** **MINES** **S117661278**
SSW **515 MITCHELL CANYON ROAD** **N/A**
1/8-1/4 **, CA**
0.235 mi.
1242 ft.

Relative:
Higher

Actual:
595 ft.

MINES:

Name:	CEMEX CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CA
Latitude:	37.930556
Longitude:	-121.944722
Lead Agency identification code:	7
Lead Agency name:	County of Contra Costa
Year of the operator supplied annual report:	2017
Type of report submitted by operator:	2
Number of acres disturbed by the mine:	130
Status of mining operation:	ACTIVE
Status of mine reclamation:	RECLAMATION IN PROGRESS
Mine operator:	CEMEX CONSTRUCTION MATERIALS PACIFIC
Operator Address:	1764 SKYWAY
Operator City, State, Zip:	CHICO, CA 95928
Operator County:	Not reported
Mine owner:	CEMEX
Owner Address:	5180 GOLDEN FOOTHILL PARKWAY, SUITE 220
Owner City, State, Zip:	EL DORADO HILLS, CA 95762
Owner County:	Not reported
Reclamation plan identification number:	Not reported
Primary product produced by the mine:	SAND AND GRAVEL
Other products produced by the mine:	Not reported
Type of mining utilized by mine:	PLANT OR MILL,QUARRY
Conditional use permit identification number:	LUP2054-81
Number of acres permitted for mining disturbance:	437
Total amount of funds posted by the mine for reclamation:	4730408
Financial Assurance Cost Estimate for reclamation:	4730408

4
SSW
1/4-1/2
0.266 mi.
1404 ft.

Relative:
Higher

Actual:
643 ft.

CEMEX CONSTRUCTION MATERIALS P
515 MITCHELL CANYON RD
CLAYTON, CA 94517

LUST **S105023307**
AST **N/A**
CERS HAZ WASTE
SWEEPS UST
CERS TANKS
EMI
HIST CORTESE
NPDES
CONTRA COSTA CO. SITE LIST
CIWQS
CERS

LUST:

Name:	RMC LONESTAR
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300439
Global Id:	T0601300439
Latitude:	37.932159
Longitude:	-121.940987
Status:	Completed - Case Closed
Status Date:	01/15/1997
Case Worker:	KEB
RB Case Number:	07-0475
Local Agency:	CONTRA COSTA COUNTY
File Location:	Not reported
Local Case Number:	11077
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0601300439
Contact Type:	Regional Board Caseworker
Contact Name:	KEVIN BROWN
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	kebrown@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0601300439
Contact Type:	Local Agency Caseworker
Contact Name:	SUE LOYD
Organization Name:	CONTRA COSTA COUNTY
Address:	4333 PACHECO BLVD.
City:	MARTINEZ
Email:	sloyd@hsd.co.contra-costa.ca.us
Phone Number:	Not reported

LUST:

Global Id:	T0601300439
Action Type:	Other
Date:	06/27/1990
Action:	Leak Discovery

Global Id: T0601300439

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Action Type: Other
Date: 06/27/1990
Action: Leak Stopped

Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Reported

Global Id: T0601300439
Action Type: ENFORCEMENT
Date: 01/14/1996
Action: 13267 Requirement

LUST:
Global Id: T0601300439
Status: Completed - Case Closed
Status Date: 01/15/1997

Global Id: T0601300439
Status: Open - Case Begin Date
Status Date: 06/27/1990

Global Id: T0601300439
Status: Open - Site Assessment
Status Date: 05/10/1994

LUST REG 2:
Region: 2
Facility Id: 07-0475
Facility Status: Case Closed
Case Number: 11077
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 5/10/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AST:
Name: CEMEX CONSTRUCTION MATERIALS PACIFIC LLC
Address: 515 MITCHELL CANYON RD
City/Zip: CLAYTON,
Certified Unified Program Agencies: Contra Costa
Owner: Not reported
Total Gallons: 11,500
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City/Zip:	CLAYTON,94517
Certified Unified Program Agencies:	Not reported
Owner:	CEMEX Construction Materials Pacific, LLC
Total Gallons:	Not reported
CERSID:	10005676
Facility ID:	07-000-711077
Business Name:	CEMEX Construction Materials Pacific, LLC
Phone:	925-672-4900
Fax:	925-672-1845
Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Mailing Address City:	El Dorado Hills
Mailing Address State:	CA
Mailing Address Zip Code:	95762
Operator Name:	CEMEX Construction Materials Pacific, LLC
Operator Phone:	925-672-4900
Owner Phone:	916-941-2800
Owner Mail Address:	5180 Golden Foothill Parkway, Suite 200
Owner State:	CA
Owner Zip Code:	95762
Owner Country:	United States
Property Owner Name:	CEMEX Construction Materials Pacific, LLC
Property Owner Phone:	916-941-2800
Property Owner Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Property Owner City:	El Dorado Hills
Property Owner Stat :	CA
Property Owner Zip Code:	95762
Property Owner Country:	United States
EPAID:	CAL000317868

CERS HAZ WASTE:

Site ID:	103985
CERS ID:	10005676
CERS Description:	Hazardous Waste Generator

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-05-2015
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 02/05/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Program:	HW
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	02-05-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800

Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

SWEEPS UST:

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	3

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000003
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

CERS TANKS:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	10005676
CERS Description:	Aboveground Petroleum Storage

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-05-2015
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 02/05/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-05-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985
Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200

Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800

Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Zip: Not reported
Affiliation Phone: (925) 672-4900

EMI:

Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 1999
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1442
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 17
Part. Matter 10 Micrometers and Smllr Tons/Yr: 9

Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2000
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1442
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 17
Part. Matter 10 Micrometers and Smllr Tons/Yr: 9

Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2001
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1442
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2002
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2003
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2004
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.09
Reactive Organic Gases Tons/Yr:	0.0794526
Carbon Monoxide Emissions Tons/Yr:	0.176
NOX - Oxides of Nitrogen Tons/Yr:	0.807
SOX - Oxides of Sulphur Tons/Yr:	0.013
Particulate Matter Tons/Yr:	22.963
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11.3425397

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2005
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.028
Reactive Organic Gases Tons/Yr:	.0275772
Carbon Monoxide Emissions Tons/Yr:	.005
NOX - Oxides of Nitrogen Tons/Yr:	.021
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	26.619
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.1166714

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2006
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2007
County Code:	7
Air Basin:	SF

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2008
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.083
Reactive Organic Gases Tons/Yr:	.0735957
Carbon Monoxide Emissions Tons/Yr:	.153
NOX - Oxides of Nitrogen Tons/Yr:	.704
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	42.965
Part. Matter 10 Micrometers and Smllr Tons/Yr:	20.9233914

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2009
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.2999999999999995E-2
Reactive Organic Gases Tons/Yr:	6.5228700000000001E-2
Carbon Monoxide Emissions Tons/Yr:	0.14299999999999999
NOX - Oxides of Nitrogen Tons/Yr:	0.65700000000000003
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22.151155737704901
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.9822554

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Year:	2010
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.5000000000000002E-2
Reactive Organic Gases Tons/Yr:	0.0585351
Carbon Monoxide Emissions Tons/Yr:	0.11700000000000001
NOX - Oxides of Nitrogen Tons/Yr:	0.54000000000000004
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	36.822959016393398
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.458028899999999

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2011
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2012
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	20.570060313
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.435

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2013
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.026
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	21.046
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.523

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2014
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.02634999
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18.464724282
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.232362244

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2015
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.01834999
Reactive Organic Gases Tons/Yr:	0.01835
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Particulate Matter Tons/Yr: 16.365857189
Part. Matter 10 Micrometers and Smllr Tons/Yr: 8.182928511

Name: CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2016
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1422
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.018349992
Reactive Organic Gases Tons/Yr: 0.018349992
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 15.49322988
Part. Matter 10 Micrometers and Smllr Tons/Yr: 7.746615023

HIST CORTESE:
edr_fname: RMC LONESTAR
edr_fadd1: 515 MITCHELL CNYN
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0475

NPDES:
Name: CLAYTON QUARRY
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 181849
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 07I009447
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 11/23/1992
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 2365 Iron Point Road Suite 120
Discharge Name: CEMEX
Discharge City: Folsom
Discharge State: California
Discharge Zip: 95630
Status: Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active
Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

Name:	CLAYTON QUARRY
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 07I009447

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	11/23/1992
Operator Name:	CEMEX
Operator Address:	2365 Iron Point Road Suite 120
Operator City:	Folsom
Operator State:	California
Operator Zip:	95630

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active
Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX
Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

CONTRA COSTA CO. SITE LIST:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	UNDERGROUND STORAGE TANK SITE
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	APSA: 10K - <100K GALLONS
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	711077

CIWQS:

Name:	CLAYTON QUARRY
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Agency:	CEMEX
Agency Address:	2365 Iron Point Road Suite 120, Folsom, CA 95630
Place/Project Type:	Industrial - Construction Sand and Gravel
SIC/NAICS:	Multiple
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 07I009447
NPDES Number:	CAS000001

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Adoption Date:	Not reported
Effective Date:	11/23/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	2
Latitude:	37.9335
Longitude:	-121.94191

CERS:

Name:	CEMEX - CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CLAYTON, CA 94517-1529
Site ID:	458437
CERS ID:	110005972956
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Bruce Eppler
Entity Title:	Not reported
Affiliation Address:	5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City:	ELDORADOHILLS
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	GORDON BROWN
Entity Title:	OPERATIONS MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	RAMON NEILSON
Entity Title:	PLANT MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	ROBERT ALDENHUYSEN
Entity Title:	ENVIRONMENTAL CONTACT
Affiliation Address:	POBOX 697
Affiliation City:	PLEASANTON

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: CEMEX CONSTRCTN MATL PACIFIC LLC
Entity Title: OPERATOR
Affiliation Address: POBOX 697
Affiliation City: PLEASANTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: LOUIS B SCHIPPER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: CEMEX CONSTRCTN MATL PACIFICNA LLC
Entity Title: Not reported
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City: ELDORADOHILLS
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: RICK HANCOCK
Entity Title: PLANT MANAGER
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAY
Affiliation City: ELDORADOHILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: CEMEX CONSTUCTION MATL PACIFIC LLC
Entity Title: OWNER
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAY
Affiliation City: ELDORADOHILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: RMC LONESTAR

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 215748
CERS ID: T0601300439
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 103985
CERS ID: 254432
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-05-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 103985
Facility Name: CEMEX
Env Int Type Code: SMSWIND
Program ID: 254432
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.933500
Longitude: -121.941910

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Rosa Fibla Matamoros
Entity Title: Not reported
Affiliation Address: 2365 Iron Point Road, Suite 120
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95630
Affiliation Phone: Not reported

Affiliation Type Desc: Owner/Operator
Entity Name: CEMEX
Entity Title: Operator
Affiliation Address: 2365 Iron Point Road Suite 120

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2365 Iron Point Road, Suite 120
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95630
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Cemex Construction Materials Pacific, LLC
Entity Title: Not reported
Affiliation Address: 2365 Iron Point Road, Suite 120
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95630
Affiliation Phone: (916) 941-2800

Affiliation Type Desc: Operator
Entity Name: Cemex Construction Materials Pacific, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 672-4900

Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 103985
CERS ID: 10005676
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	02-28-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Violation Description: Failure to implement the SPCC Plan.
Violation Notes: Returned to compliance on 01/04/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2018
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985
Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

CEMEX CONSTRUCTION MATERIALS P (Continued) **S105023307**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

---

5 **KAISER SAND & GRAVEL** **LUST** **1000727398**
NW **2484 PINE HOLLOW RD** **HIST CORTESE** **N/A**
1/4-1/2 **CLAYTON, CA 94517** **CERS**
0.461 mi.
2433 ft.

Relative:
Lower

Actual:
434 ft.

LUST:

Name:	KAISER SAND & GRAVEL
Address:	2484 PINE HOLLOW RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300548
Global Id:	T0601300548
Latitude:	37.9411
Longitude:	-121.94935
Status:	Completed - Case Closed
Status Date:	03/26/1997
Case Worker:	KEB
RB Case Number:	07-0595
Local Agency:	CONTRA COSTA COUNTY
File Location:	Not reported
Local Case Number:	02247
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel

KAISER SAND & GRAVEL (Continued) **1000727398**

Site History: Not reported

LUST:
Global Id: T0601300548
Contact Type: Regional Board Caseworker
Contact Name: KEVIN BROWN
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: kebrown@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300548
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Stopped

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Reported

Global Id: T0601300548
Action Type: ENFORCEMENT
Date: 03/26/1997
Action: Closure/No Further Action Letter

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Discovery

LUST:
Global Id: T0601300548
Status: Completed - Case Closed
Status Date: 03/26/1997

Global Id: T0601300548
Status: Open - Case Begin Date
Status Date: 11/19/1985

Global Id: T0601300548
Status: Open - Site Assessment
Status Date: 08/01/1994

KAISER SAND & GRAVEL (Continued) **1000727398**

LUST REG 2:
Region: 2
Facility Id: 07-0595
Facility Status: Case Closed
Case Number: 02247
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/1/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:
edr_fname: KAISER SAND & GRAVEL
edr_fadd1: 2484 PINE HOLLOW
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0595

CERS:
Name: KAISER SAND & GRAVEL
Address: 2484 PINE HOLLOW RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 257971
CERS ID: T0601300548
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/20/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/18/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 50

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 70

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/15/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/04/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/18/2019
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 79

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/28/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 76
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

408841
MITCHELL CANYON ROAD
CLAYTON, CA 94517

TARGET PROPERTY COORDINATES

Latitude (North):	37.935515 - 37° 56' 7.85''
Longitude (West):	121.943254 - 121° 56' 35.71''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592864.2
UTM Y (Meters):	4198981.5
Elevation:	506 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

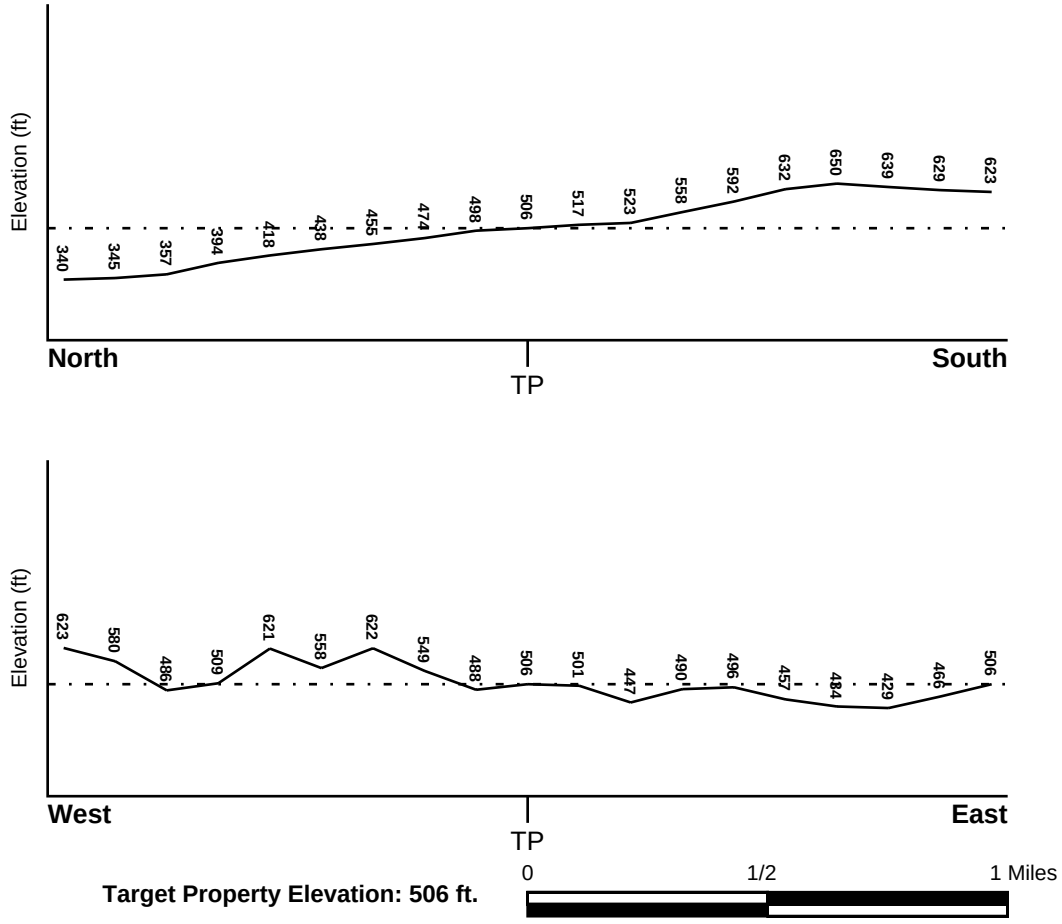
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06013C0312F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06013C0304F	FEMA FIRM Flood data
06013C0308F	FEMA FIRM Flood data
06013C0316F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CLAYTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

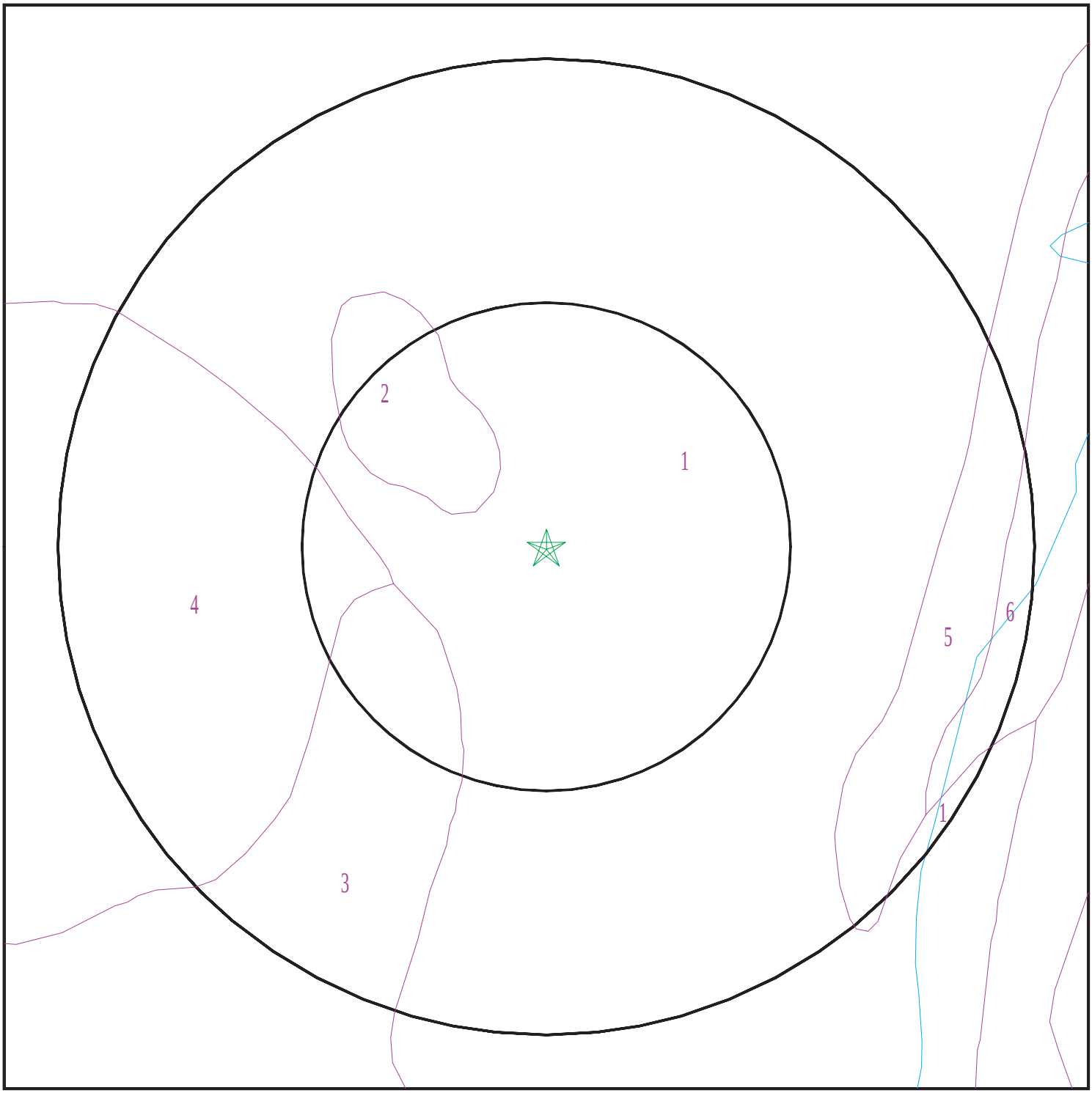
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5720065.2s



SITE NAME:	408841	CLIENT:	AEI Consultants
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Tony Chilese
		INQUIRY #:	5720065.2s
LAT/LONG:	37.935515 / 121.943254	DATE:	July 17, 2019 8:03 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: PERKINS

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: LOS OSOS

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: Perkins

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 6

Soil Component Name: ZAMORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

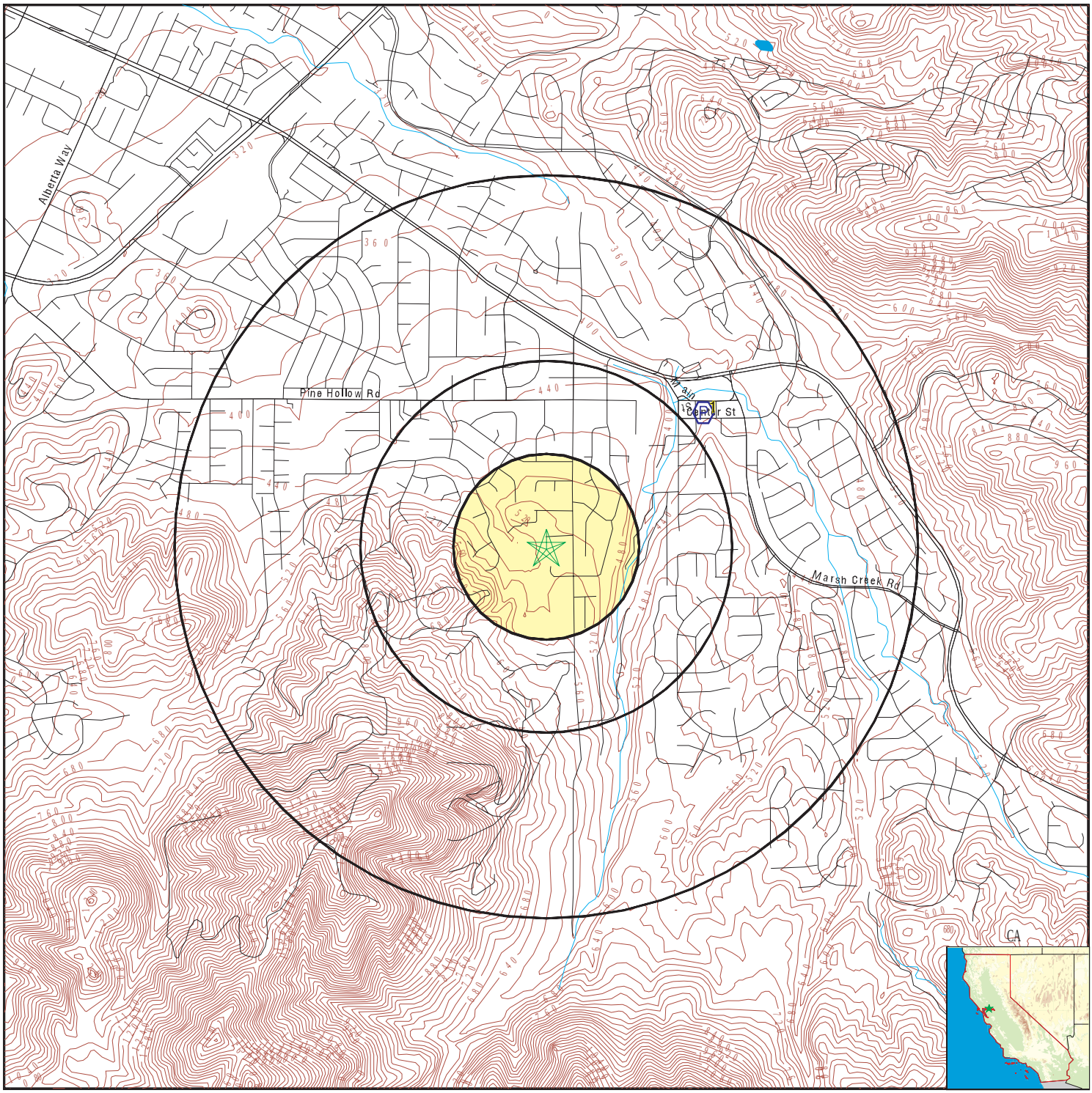
MAP ID	WELL ID	LOCATION FROM TP
1	CA0706053	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5720065.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

N

SITE NAME:	408841	CLIENT:	AEI Consultants
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Tony Chilese
		INQUIRY #:	5720065.2s
LAT/LONG:	37.935515 / 121.943254	DATE:	July 17, 2019 8:03 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
1/2 - 1 Mile
Lower | **FRDS PWS** | **CA0706053**

PWS ID:	CA0706053	PWS type:	System Owner/Responsible Party
PWS name:	VERNON PETERSON	PWS address:	Not Reported
PWS city:	CLAYTON	PWS state:	CA
PWS zip:	94517	PWS ID:	CA0706053
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	BROKEN WHEEL	System address:	VERNON PETERSON
System address:	HWY 4 & HILL AVE	System city:	OAKLEY
System state:	CA	System zip:	94561
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	375627	Longitude:	1215604

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94517	6	0

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94517

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

APPENDIX D

HISTORICAL SOURCES

408841

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5720065.5

July 18, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/18/19

Site Name:

408841
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5720065.5

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Tony Chilese

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: June 12, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1966	1"=500'	Flight Date: May 15, 1966	USDA
1963	1"=500'	Flight Date: July 16, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: August 13, 1958	USDA
1950	1"=500'	Flight Date: March 12, 1950	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1946	1"=500'	Flight Date: July 22, 1946	USGS
1939	1"=500'	Flight Date: July 25, 1939	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2016

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2012

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2009

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2006

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1998

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1993

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1982

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1979

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1966

AEI Consultants

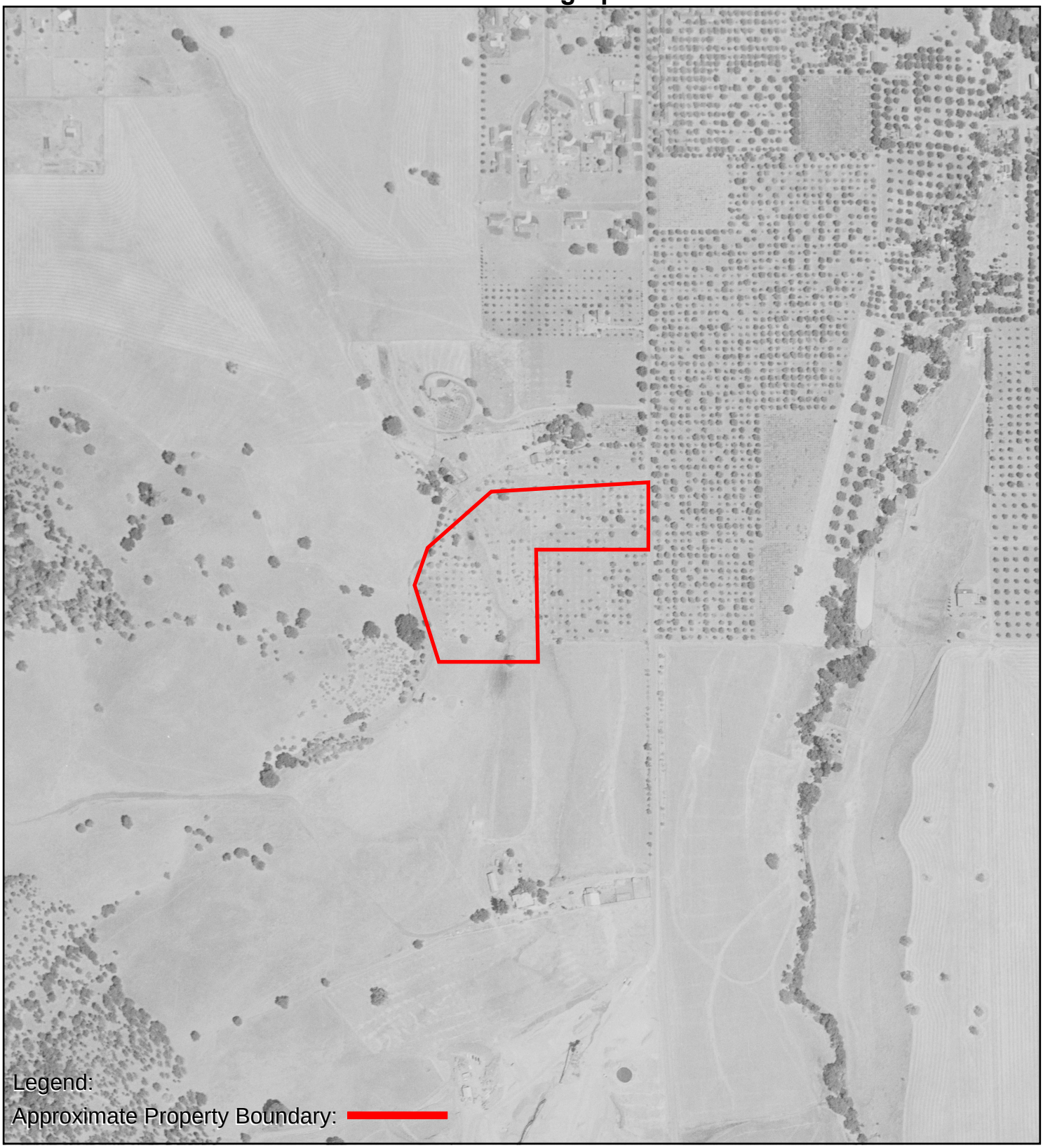


0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1963

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1958

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1950

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1949

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1946

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1939

AEI Consultants

408841

Mitchell Canyon Road

Clayton, CA 94517

Inquiry Number: 5720065.3

July 17, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/17/19

Site Name:

408841
Mitchell Canyon Road
Clayton, CA 94517
EDR Inquiry # 5720065.3

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Tony Chilese

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AEI Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 112B-4C29-BD50

PO # 200133

Project 408841

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 112B-4C29-BD50

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

AEI Consultants (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

APPENDIX E

REGULATORY AGENCY RECORDS

ANNA M. ROTH, RN, MS, MPH
HEALTH SERVICES DIRECTOR
RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH & HAZMAT OFFICER

CONTRA COSTA HEALTH SERVICES

CONTRA COSTA HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, California 94553
Ph (925) 335-3200
Fax (925) 646-2073
ccchazmat@hsd.cccounty.us
www.cchealth.org/hazmat/

Public Records Request Form

SR#_____
(office use only)

Date: _____

Name: _____ **Business Name:** _____

Address: _____ **Phone #**: _____

_____ **E-mail:** _____

I am requesting the following public record(s) from Contra Costa Health Services Hazardous Materials Programs.

RECORD(S) REQUESTED: (Use additional form (s) if more space is needed)

Our records are available electronically. Please choose one of the methods below:

☐ Please copy the record(s) and send FedEx to the above mailing address.
The cost is $15.00 and is payable by check or credit card (Visa, Discover or M/C).

☐ Please copy the record(s) and notify me when ready for pick up.
The cost is $3.00 and is payable by check or cash (**MUST BE EXACT**).

☐ **If you would like us to provide a list of sites in our database, please choose:**
Please copy all "Active" or "Inactive" sites from database Cost: $15.00

You may email the completed form to ccchazmat@hsd.cccounty.us, or mail or hand deliver to Contra Costa Health Services Hazardous Materials Programs at 4585 Pacheco Blvd., Suite 100, Martinez, CA 94553; or FAX to (925) 646-2073.

Office Use Only:

Date Received_____ Completed_____ ☐No records exist responsive to this request.

Picked Up_____ or FedEx_____ XR_____ Time Spent_____

Rev. April 2018

AEI Consultants
Environmental & Engineering Services
2500 Camino Diablo, Walnut Creek, CA 94597
Tel: 925.746.6000 Fax: 925.746.6099

July 9, 2019

Attn: File Review
Contra Costa County Fire Protection District
P: (925) 941-3300
F: (925) 634-3309

Subject: Freedom of Information Act (FOIA) Request/File Review Request
AEI Project No. 408841

To Whom It May Concern:

AEI has been contracted to perform a Phase I Environmental Site Assessment. Please indicate if you have any current or archived records pertaining to aboveground storage tanks (ASTs), underground storage tanks (USTs), hazardous materials storage/disposal and/or industrial waste discharges for the following site(s):

- 121-090-011-2 and 121-090-01-1, Mitchell Canyon Road, Clayton, CA

If you do not have any records, please indicate in the space below and fax back this sheet to (510) 338-3192, or call me at (925) 708-7325, if you have any questions.

Sincerely,

Lea Palumbo
Project Manager
lpalumbo@aeiconsultants.com

☐ No Files for address(es) listed above
Name: _____
Title: _____
Phone: _____

X_____ _____
Signature Date

APPENDIX F

OTHER SUPPORTING DOCUMENTATION

AEI Consultants

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

Instructions: Please complete the following questionnaire to the best of your knowledge.

PROJECT/SITE INFORMATION			
Project Street Address(es): Mitchell Canyon Road			
City: Clayton	County: Contra Costa	State: CA	Zip: 94517
Parcel Number(s): 121-090-011-2 and 121-090-016-1			

CONTACT INFORMATION			
Contact	**Name**	**Phone Number**	**Years Associated w/Site**
Owner:	Fred B. Clayton	(650) 264-8006	50 ☐years
Site Contact:	Karen Isobe	(408) 836-8442	
Key Site Manager:			
Previous Owner(s), Operators and/or Occupants:			

PROPERTY USE AND SPECIFICATIONS	
☐ Single-Family Residential	☒ Vacant or undeveloped
☐ Multi-Family Residential	☐ Agricultural *specify type:*
☐ Commercial Office	☐ Industrial *specify type:*
☐ Commercial Retail	☐ Other *specify type:*
Provide a general site description: 2 parcels, vacant & undeveloped, approximately 8.65 Acres on Mitchell Canyon Rd., Clayton, CA	
Provide all known current/former addresses and/or parcel numbers: Parcels ☐121-090-011-2 & ☐121-090-016-1	
Total Property Size: Approximately 8.65 acres	Original Construction Date: 50 ☐years
Total Number of Buildings: 1 Shed	Was Construction Phased? ☐Yes ☒No ☐Unk
Total Sq. Ft. of Buildings: Approx. 216 sq. ft.	Dates of Renovations/Phases:
Are there any plans for site redevelopment or change in use? ☐Yes ☒No If yes, please describe:	
Are there any bodies of water on or immediately adjacent to the site? ☐Yes ☒No If yes, please describe:	
Electricity Provider: N/A	Gas Provider: N/A
Heating System Fuel Source(s): N/A	Cooling System Power Source: N/A
Potable Water Source/Provider: Well	
Any waste water discharge at the site? N/A ☐ Septic Tank/Leachfield ☐ Sanitary Sewer ☐ Other	Sanitary Sewer Provider N/A (if applicable):

OCCUPANTS/TENANTS		
Current Occupant(s)/Tenant(s)	**Length of occupancy**	**Brief description of on-site operations**
N/A		
Previous Occupant(s)/Tenant(s)	**Length of occupancy**	**Brief description of on-site operations**
N/A		

Project Number:	408841	Return via Fax:	(510) 338-3192
Project Manager:	Lea Palumbo	Return via Email:	lpalumbo@aeiconsultants.com

AEI Consultants

Has the subject site ever been occupied by the following? N/A
☐ Dry Cleaner ☐ Gas Station ☐ Printing Facility ☐ Manufacturing Facility
If yes, provide length of occupancy:

Have any previous investigations been performed at the subject property? ☐Yes ☒No
If Yes, are copies available? ☐Yes ☐No
If Yes, also note type and describe: ☐ Phase I ESA ☐ Phase II ☐ Asbestos ☐ Lead Paint ☐ Radon

ON-SITE ENVIRONMENTAL CONDITIONS

Are you aware of any of the following environmental conditions, **either current or former**, on the subject site?

NOTE: If applicable, please provide inventory records, inspection records and Safety Data Sheets (SDSs) to site inspector during site inspection.

Environmental Condition/Issue	Response	Notes on Yes Responses
Aboveground Storage Tanks	☐ Yes ☒ No	
Underground Storage Tanks	☐ Yes ☒ No	
Hazardous/Toxic Substances	☐ Yes ☒ No	
Stored Chemicals	☐ Yes ☒ No	
Chemical Spills/Releases	☐ Yes ☒ No	
Dump Areas/Landfills	☐ Yes ☒ No	
Waste Treatment Systems	☐ Yes ☒ No	
Wastewater Discharges	☐ Yes ☒ No	
Floor Drains/Sumps/Clarifiers	☐ Yes ☒ No	
Pits, Ponds, Lagoons	☐ Yes ☒ No	
Stained Soil/Vegetation	☐ Yes ☐ No	
Pesticide/Herbicide Use	☐ Yes ☒ No	
Polychlorinated Biphenyls (PCBs)	☐ Yes ☒ No	
Electrical Transformers	☐ Yes ☒ No	
Hydraulic Lifts	☐ Yes ☒ No	
Elevators	☐ Yes ☒ No	
Asbestos	☐ Yes ☒ No	

AEI Consultants

Environmental Condition/Issue	Response	Notes on Yes Responses
Lead-Based Paint	☐ Yes ☐ No	Shed was painted 50☐years ago
Oil/Gas Wells	☐ Yes ☒ No	
Environmental Cleanups	☐ Yes ☒ No	
Environmental Permits	☐ Yes ☒ No	

OTHER ENVIRONMENTAL CONDITIONS

Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
☐ Yes ☒ No If yes, provide brief explanation.

Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?
☐ Yes ☒ No If yes, provide brief explanation.

Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
☐ Yes ☒ No If yes, provide brief explanation.

Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?
☐ Yes ☒ No If yes, provide brief explanation.

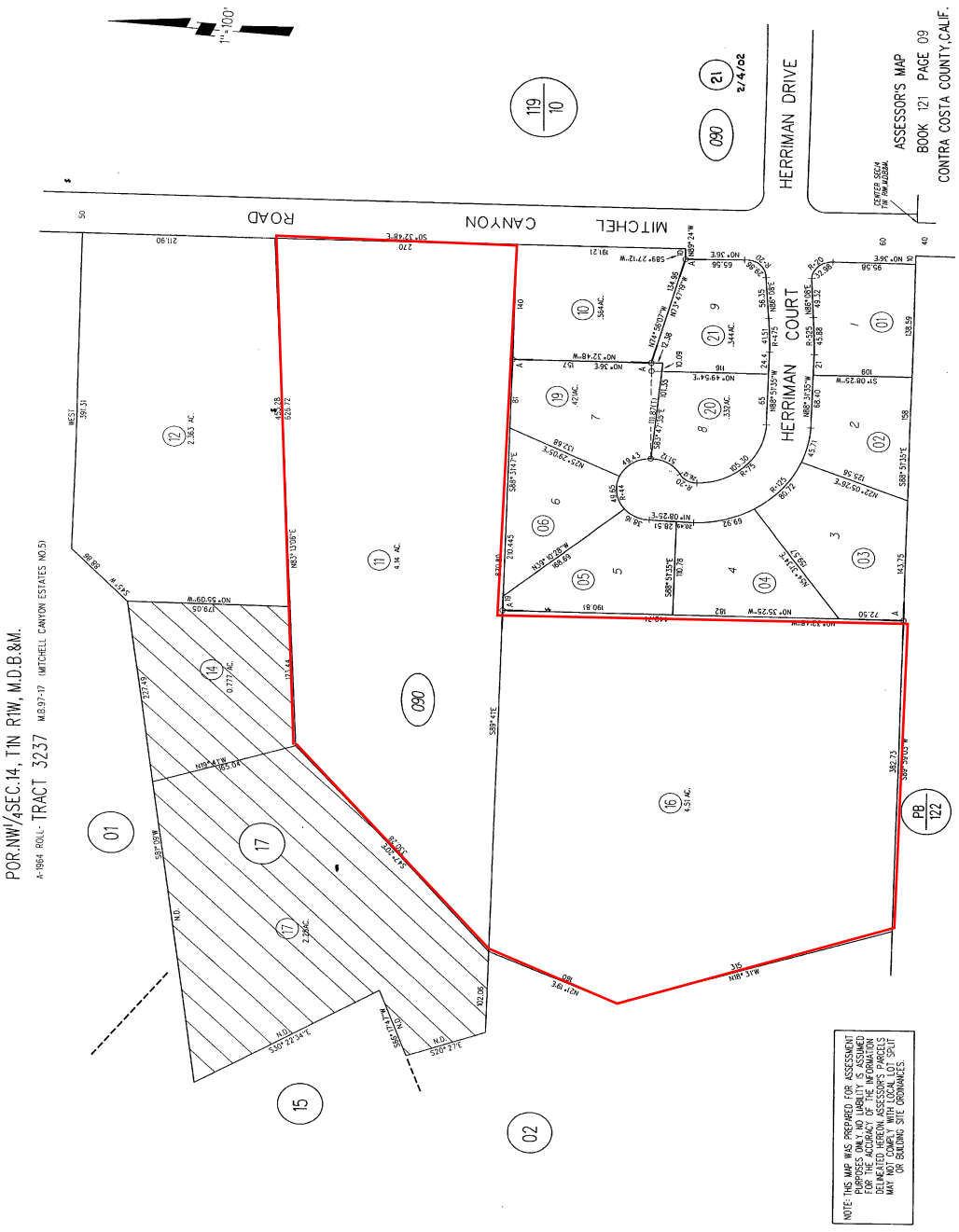
Are you aware of any cases of extreme water damage or mold throughout the building(s)?
☐ Yes ☒ No If yes, provide brief explanation.

Person completing questionnaire: Fred B. Clayton / Karen Isobe

Title/Affiliation to the subject property: Owner / Trustee

Number of years associated with the subject property: 50 ☐years

Date: August 5, 2019


ASSESSOR'S MAP
BOOK 121 PAGE 09
CONTRA COSTA COUNTY, CALIF.
HERRIMAN DRIVE
HERRIMAN COURT
MITCHELL CANYON ROAD
POR. NW1/4SEC. 14, T1N R1W, M.D.B.&M.
A-1964 ROLL - TRACT 3237 M.B. 97-17 (MITCHELL CANYON ESTATES NO.5)
NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION DELINEATED HEREON. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT SPLIT OR BUILDING SITE ORDINANCES.

ENVIROSTOR

mitchell canyon road, clayton, ca Map Address

Sites and Facilities

Cleanup Sites
- Federal Superfund
- State Response
- Voluntary Cleanup
- School Cleanup
- Evaluation
- School Investigation
- Military Evaluation
- Tiered Permit
- Corrective Action

STATUS
All Statuses

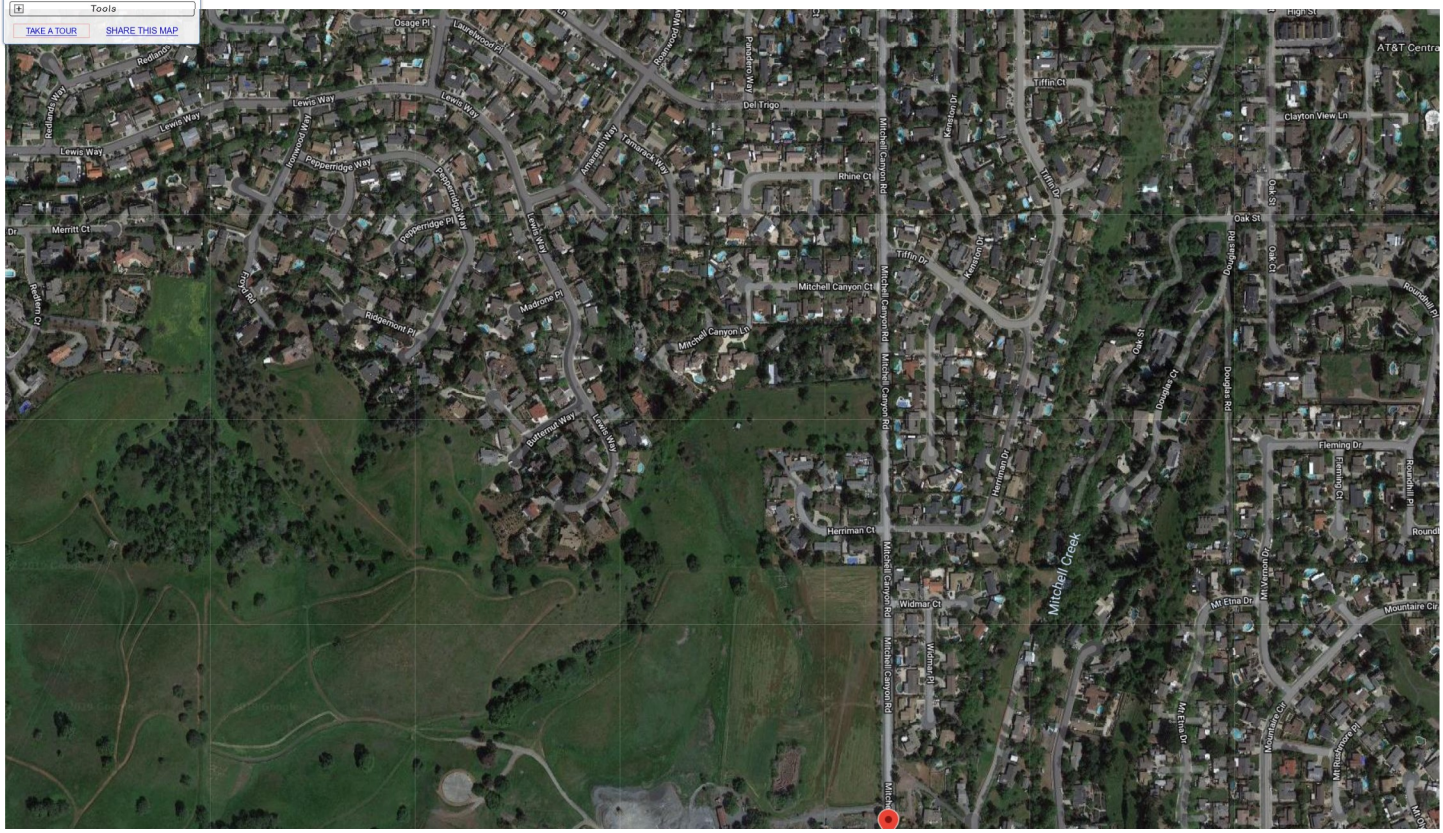
Permitted Sites
- Operating
- Post-Closure
- Non-Operating

Other Sites

GIS Layers

Tools

TAKE A TOUR SHARE THIS MAP



Google Map data ©2019 Imagery ©2019 , CNES / Airbus, DigitalGlobe, 50 m Report a map error

SITES CURRENTLY VISIBLE ON MAP 0 SITES LISTED EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY

GEOTRACKER

Enter an address | Map Address

Sites and Facilities - INFO

Cleanup Sites
- LUST Cleanup Sites
- Cleanup Program Sites
- Military Cleanup Sites
- DTSC Cleanup Sites

Permitted Facilities
- Waste Discharge Requirements (WDR) Sites
- Permitted USTs - INFO
- DTSC Hazardous Waste Sites
- Land Disposal Sites - SELECT NONE
  - Burn Dump
  - Compost Facility
  - Illegal Disposal Site
  - Other
  - Pre-Title 27 - CAI
  - Title 27 - Land Treatment Unit
  - Title 27 - Mining Unit
  - Title 27 - Municipal Solid Waste Landfill
  - Title 27 - Non-Municipal Solid Waste Landfill
  - Title 27 - Surface Impoundment
  - Title 27 - Waste Pile
  - Unknown
- Irrigated Lands Regulatory Program Sites

Oil / Gas Sites
- Other Oil and Gas Projects
- Produced Water Ponds
- Underground Injection Control (UIC)
- Well Stimulation Project - Exclusion
- Well Stimulation Project - Groundwater Monitoring Plan
- Well Stimulation Projects - Property Owner Sampling
- Confined Animal Sites

Other Sites
- Project Sites
- Non-Case Information Sites
- Sampling Points - Public
- Field Points

SIGNIFIES A CLOSED SITE

Tools

Map Coverages

TAKE A TOUR | VIEW ON GAMA

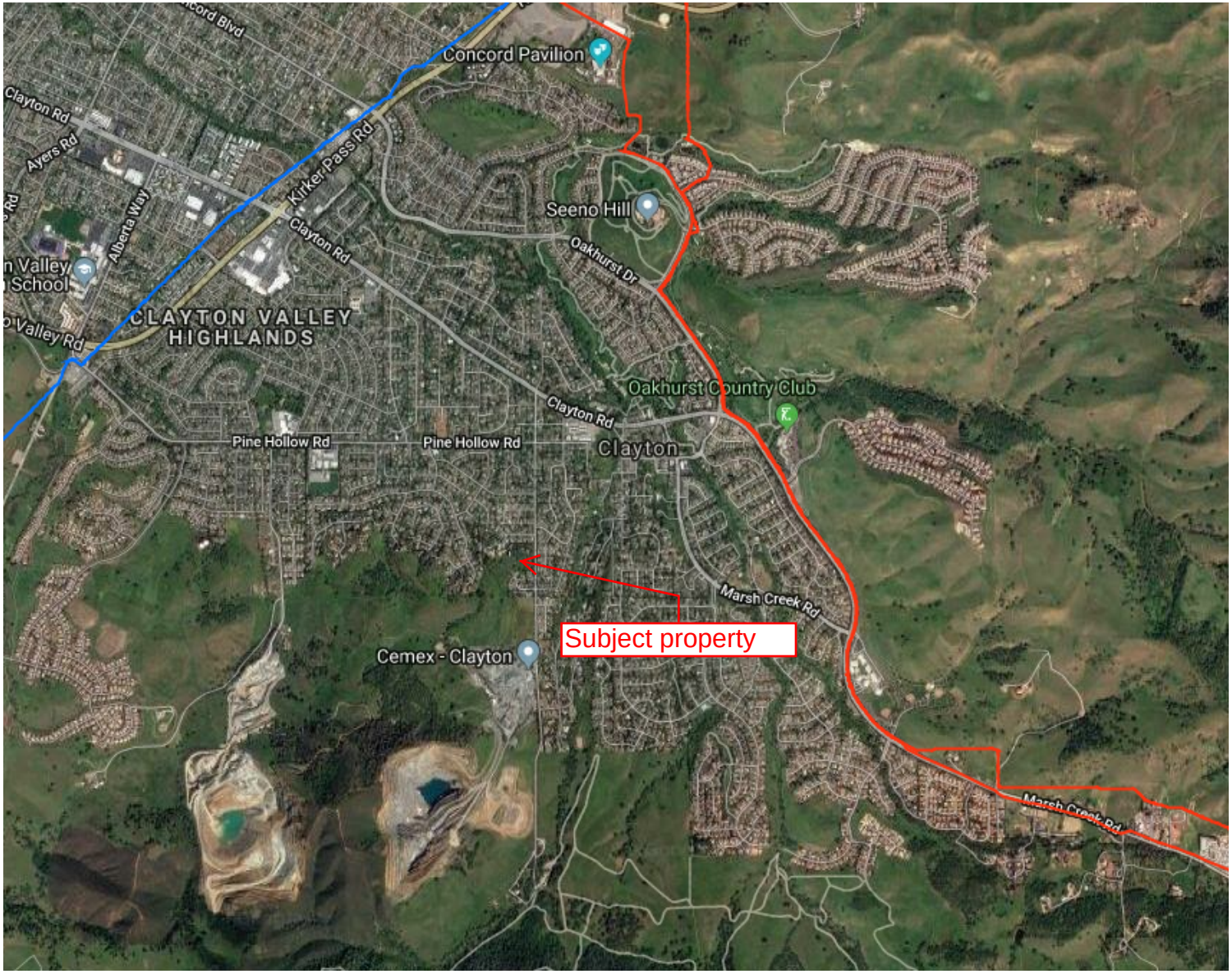


Google

Map data ©2019 Imagery ©2019 , CNES / Airbus, DigitalGlobe, 20 m Report a map error

SITES CURRENTLY VISIBLE ON MAP — 0 SITES LISTED — EXPORT THIS LIST TO EXCEL

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY



Legend

- Accidents (Liquid)
- Incidents (Gas)
- LNG Plants
- Breakout Tanks
- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

500 m
1000 ft

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

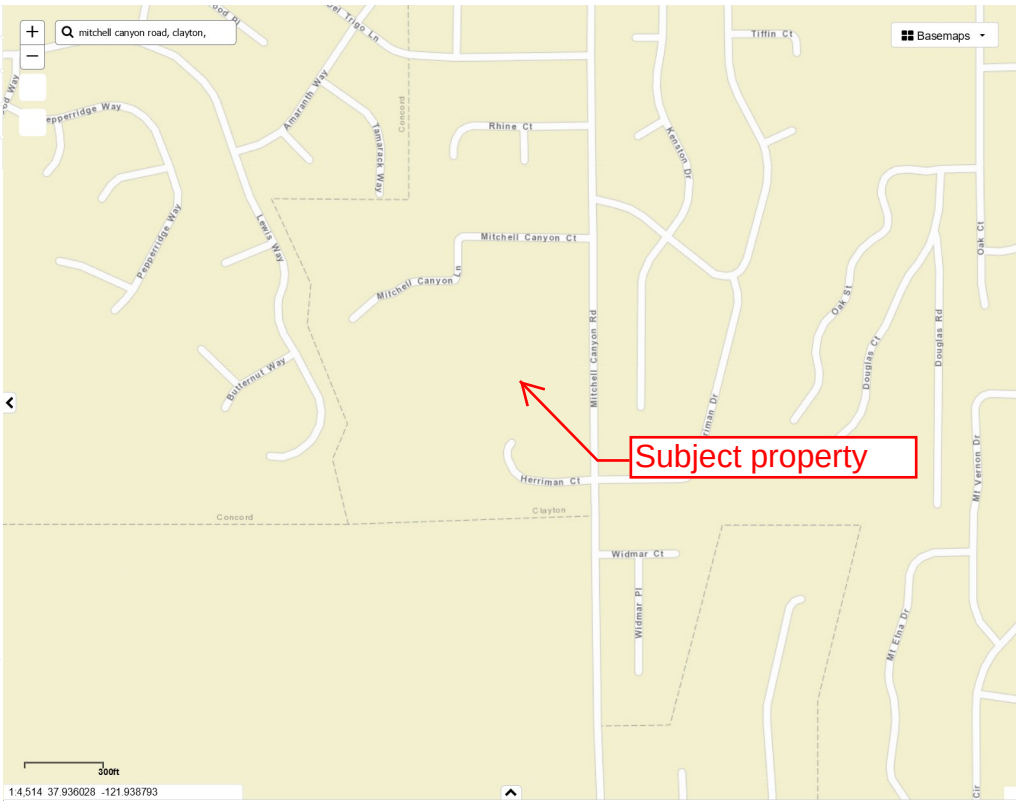
Date Printed: Aug 01, 2019

811 Know what's below. Call before you dig.

Well Finder
DOGGR GIS

More Info | Help | ©

- Well Status and Well Type Filter
- Search
- Zoom to Field
- Measurement
- Layers
  - Notice and Permit
  - Well
    - Well
    - Geothermal Well
    - EPA Well for Aquifer Exemption Review
  - Facility
    - Tank
    - Pit/Sump
    - Setting
    - Facility Boundary (non-wellstar)
  - Underground Gas Storage
  - Well Stimulation
  - TR26 Onshore Seep Count
  - Oil/Gas Field
  - DOGGR District
  - Public Land Survey System
  - City
  - Legislative Districts
  - County
  - California Geologic Map



APPENDIX G

QUALIFICATIONS

Lea Palumbo ☐Project Manager, Due Diligence

BS ☐Environmental Policy Analysis and Planning (emphasis in Climate Change Policy), University of California, Davis

Ms. Palumbo has been in the environmental service industry since 2013. She provides project management to ensure ASTM compliance and satisfaction of client requirements for Phase I Environmental Site Assessments, Environmental Transaction Screens, Regulatory Database Reviews, and Historical Records Reviews.

Project experience for Ms. Palumbo includes:

- Phase I Environmental Site Assessments (PHI ESA)
- Limited Environmental Site Assessments
- Environmental Transaction Screens (ETS)
- Records Research with Risk Assessments
- Regulatory Database Reviews
- Historical Records Reviews

In addition, prior to joining the environmental consulting industry, Ms. Palumbo spent four years studying a diverse range of environmental disciplines including: environmental policy analysis, environmental law, geology, Geographic Information Systems (GIS), sustainable development, and environmental planning.

Richard D. Fehler – National Client Manager

B.S. – Zoology, University of California, Davis

California Registered Environmental Assessor (REA I)

Mr. Fehler has over twenty-five years of environmental management experience gained as an environmental consultant; in the chemical manufacturing industry; in the hazardous waste management industry; and as an environmental regulator. He specializes in all aspects of environmental due diligence, regulatory compliance and negotiations, hazardous waste management, and auditing. Mr. Fehler has also received training in Greenhouse Gas and Sustainability Verification.

Mr. Fehler has served as project principal on hundreds of projects with wide-ranging scopes, including peer reviews and desktop reviews; due diligence on large portfolios (200 sites+), as well as single assets; investigation and management of lead, asbestos, mold, and *Legionella*; investigation, remediation and management of contamination in groundwater, soil and soil vapor; regulatory compliance and auditing; and representing clients with regulators to negotiate site closure/No Further Action and/or to develop effective remediation strategies and budgets.

Project experience for Mr. Fehler includes:

- Multiple Site Due Diligence - Managed and designed projects for many large portfolios (100-plus) of varied properties spread across various states. The scopes of work frequently include Indoor Air Quality/mold issues, lead-based paint, asbestos, and radon testing. The design of appropriate Phase II sampling is frequently required to resolve and close issues.

- Environmental Compliance Reviews – Designed and managed many environmental compliance audits for single or multiple assets. Project activities usually involve inspections, interviews, reviewing environmental permits, past environmental reports, standard operating procedures, material safety data sheets (MSDS), and other information related to regulatory compliance in the areas of hazardous materials, hazardous and non-hazardous waste management, workplace health & safety, air permitting and emission reporting, waste water permitting and monitoring, storm water management, underground storage tanks, and aboveground storage tanks.

- Regulatory Negotiation – Managed many Phase II investigations conducted in response to regulatory requirements or to resolve issues and/or to obtain case closure or No Further Action. Represented clients with regulators to negotiate appropriate scopes of work and move projects to successful completion.

APPENDIX H

LIST OF COMMONLY USED ABBREVIATIONS

UNITS

µg/L	Micrograms per Liter	**pCi/L**	PicoCuries per Liter
mg/kg	Milligrams per Kilogram	**ppb**	Parts per Billion
mg/L	Milligrams per Liter	**ppm**	Parts per Million

ABBREVIATIONS AND ACRONYMS

ACM	Asbestos-Containing Material	**NESHAP**	National Emission Standards for Hazardous Air Pollutants
ADJ	Adjacent site	**NFA**	No Further Action
AEI	AEI Consultants	**NFRAP**	No Further Remedial Action Planned
AHERA	Asbestos Hazard Emergency Response Act	**NLR**	No Longer Reporting
APN	Assessor's Parcel Number	**NOV**	Notice of Violation
AST	Aboveground Storage Tank	**NPL**	National Priorities List
AUL	Activity and Use Limitation	**O&M**	Operations and Maintenance
bgs	Below Ground Surface	**OEC**	Other Environmental Considerations
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes	**OSHA**	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response Compensation and Liability Act	**PCB**	Polychlorinated Biphenyl
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System	**PCE, PERC**	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene
CESQGs	Conditionally Exempt Small Quantity Generators	**RCRA**	Resource Conservation and Recovery Act
COC	Contaminant of Concern	**REC**	Recognized Environmental Condition
CREC	Controlled Recognized Environmental Condition	**RP**	Responsible Party
EC	Engineering Controls	**SDS**	Safety Data Sheet
EDR	Environmental Data Resources, Inc.	**SEMS**	Superfund Enterprise Management System
EPA	Environmental Protection Agency	**SF**	Square Footage/Square Feet
ERIS	Environmental Risk Information Services	**SP**	Subject Property
ERNS	Emergency Response Notification System	**SQG**	Small Quantity Generator
ESA	Environmental Site Assessment	**SWLF**	Solid Waste Landfill
GPR	Ground-Penetrating Radar	**SVOC**	Semi-Volatile Organic Compound
HREC	Historical Recognized Environmental Condition	**TCE**	Trichloroethylene, Trichloroethene
HVAC	Heating, Ventilation and Air Conditioning	**TPH**	Total Petroleum Hydrocarbons
HWS	Hazardous Waste Site	**TPHd**	Total Petroleum Hydrocarbons (diesel range)
IC	Institutional Controls	**TPHg**	Total Petroleum Hydrocarbons (gasoline range)
LBP	Lead-Based Paint	**TPHo**	Total Petroleum Hydrocarbons (oil range)
LCP	Lead-Containing Paint	**TRPH**	Total Recoverable Petroleum Hydrocarbons
LLP	Landowner Liability Protection	**TSDF**	Treatment, Storage, and Disposal Facility
LQG	Large Quantity Generator	**USDA**	United States Department of Agriculture
LUST	Leaking Underground Storage Tank	**USGS**	United States Geological Survey
MCL	Maximum Contaminant Level	**UST**	Underground Storage Tank
MTBE	Methyl Tertiary Butyl Ether	**VCP**	Voluntary Cleanup Program
ND	None Detected	**VOC**	Volatile Organic Compound

AEI Consultants

September 17, 2019

LIMITED SOIL SAMPLE INVESTIGATION

Property Identification:
Mitchel Canyon Road,
Clayton, California

AEI Project No. 408841

Prepared for:
Mr. Rick Rosenbaum
Ponderosa Homes II, Inc.
5020 Franklin Drive, Suite 200
Pleasanton, California 94588

Prepared by:
AEI Consultants
2500 Camino Diablo,
Walnut Creek, California 94597
925.746.6000

AEI Contact: Peter McIntyre
Executive Vice President
925-746-6004
pmcintyre@aeiconsultants.com

Environmental Due Diligence

Building Assessments

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Risk Management

Zoning Analysis Reports & ALTA Surveys

TABLE OF CONTENTS

1.0 SITE DESCRIPTION 1

2.0 BACKGROUND 2

3.0 INVESTIGATION EFFORTS 2

3.1 Health and Safety Plan 2
3.2 Permitting and Utility Clearance 2
3.3 Soil Sampling 2
3.4 Equipment Decontamination and Investigation-Derived Waste 3
3.5 Laboratory Analyses 3

4.0 FINDINGS 3

5.0 SUMMARY AND CONCLUSIONS 4

6.0 REFERENCES 4

7.0 REPORT LIMITATIONS AND RELIANCE 5

FIGURES

Figure 1 Site Location Map
Figure 2 Site Map

TABLES

Table 1 Soil Sample Data Summary
Table 2 Soil Sample Metals Data Summary

APPENDICES

Appendix A Laboratory Analytical Report

AEI Consultants

September 17, 2019

Mr. Rick Rosenbaum
Ponderosa Homes II, Inc.
5020 Franklin Drive, Suite 200
Pleasanton, California 94588

Subject: **Limited Soil Sample Investigation**
Mitchell County Road
Clayton, California 94517
AEI Project No. 408841

Dear Mr. Rosenbaum:

This report presents the results of the Limited Soil Sample Investigation performed by AEI Consultants (AEI) at the property located at Mitchell County Road, Clayton, California ("the Site"). This investigation was completed to assess the other environmental condition identified in August 9, 2019 *Draft Phase I Environmental Assessment (ESA)* completed by AEI. The investigation was completed in general accordance with the scope of services outlined in AEI's proposal dated August 15, 2019 (AEI Proposal Number 65947).

The purpose of the investigation performed was to evaluate whether subsurface conditions (i.e. soil) at the Site have been significantly impacted by former agricultural activities. Information regarding the Site description, background, scope of work, findings, conclusions, and recommendations are provided in the following sections.

1.0 SITE DESCRIPTION

Based on the Draft Phase I ESA dated August 9, 2019 (AEI Project Number 408841), the Site consists a vacant lot amounting to approximately 8.65 acres. A gardening shed exist within the northern portion of the vacant lot. The Site location and vicinity are shown on Figure 1. Figure 2 presents the Sample Location Map.

Based on a review of the United States Geological Survey (USGS) and United States Department of the Interior maps, the area surrounding the Site is underlain by Quaternary alluvium and late Holocene aged surficial sediments, alluvial gravel, sand, and. According to the topographic map interpretation, the regional topographic gradient direction slopes toward the northeast and, therefore, the direction of groundwater flow beneath the Site is inferred to be to the northeast. Based on the information obtained from the State Water Resource Control Board's GeoTracker database, approximately 3,800 feet northwest of the subject property, the estimated depth to the groundwater is greater than 50 feet below ground surface (bgs).

2.0 BACKGROUND

According to Draft Phase I ESA, a review of historical/regulatory agency records for the Site indicated the Site was historically used for agricultural purposes from 1939 through 1958. The Site appears to have been vacated and left as is in 1963. There is a potential agricultural chemicals, such as pesticides, were used at the Site and has been impacted by the use of such agricultural chemicals. AEI understands the Site is slated for development, potentially as residential building(s), or mixed-use commercial/residential building(s).

Therefore, AEI was requested by the client to perform a Limited Soil Sample Investigation in order to evaluate if the Site had been adversely impacted by the former agricultural activities at the Site. In addition, a sample was collected adjacent to a shed, the use of which was not well documented.

3.0 INVESTIGATION EFFORTS

The investigation included the collection of 18 near-surface soil samples for laboratory analysis. The scope of work for this investigation was designed in accordance with the protocol described in the California Department of Toxic Substances Control (DTSC) document entitled *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated August 7, 2008.

3.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

3.2 Permitting and Utility Clearance

A drilling permit and utility clearance was not required for this scope of work.

3.3 Soil Sampling

On August 29, 2019, a shallow soil sampling program was completed which was consistent with the protocol outlined in the DTSC *Interim Guidance for Sampling Agricultural Properties (Third Revision)* dated August 7, 2008. For the shallow sampling program, five separate sampling areas (SS-1, SS-2, SS-3, SS-4, and SS-5) were evenly spaced across the Site. Each sampling area consisted of three to four individual samples as shown on Figure 2. Four samples were taken from the SS-1 through SS-3 areas, and three samples were taken from the SS-4 and SS-5 areas. These samples were then composited into one sample for laboratory analysis. One discrete soil sample, SS-3C was collected adjacent to the storage shed in the SS-3 area. Soil samples were collected from clear, accessible areas within the Site.

Prior to sampling, loose vegetation and soil was cleared from the ground surface at each sample location and a small hole was dug to a depth of approximately six inches to first encountered native soil, with hand tools. A hand shovel was then used to collect soil from between three and six inches which was then transferred to clean, laboratory-supplied, 4-ounce glass jars. Upon collection, each sample was labeled with the project name, project number, and the sampling date and time. After labeling, each sample was placed into an insulated, ice-filled cooler for

transport to the analytical laboratory. Chain-of-custody documentation was prepared and accompanied the samples to the analytical laboratory, a copy of which is included in Appendix A.

3.4 Equipment Decontamination and Investigation-Derived Waste

The hand sampling equipment was decontaminated prior to and/or after collecting each soil sample. The equipment was cleaned using a triple-rinse method, which consisted of an initial wash containing an Alconox detergent and water solution, followed by two potable water rinses.

3.5 Laboratory Analyses

The soil samples were submitted to State of California certified laboratory, Pace Analytical of Mount Juliette, Tennessee. The five soil samples were analyzed for organochlorine pesticides (OCPs) using United States Environmental Protection Agency (US EPA) Method 8081A and for arsenic and lead using US EPA Method 6010.

One soil sample located adjacent to the storage shed (SS-3C) was also analyzed for Title 22 metals by US EPA Method 6020 and Total Petroleum Hydrocarbons-complete carbon chain (TPH-cc) by US EPA Method 8015.

Chain-of-custody documentation and the certified analytical report are provided in Appendix A. No further sample analysis was conducted as part of this investigation.

4.0 FINDINGS

Analytical results generated during this investigation were compared to the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) July 2019, Revision 2. The RWQCB ESLs are considered to be conservative. Under most circumstances, and within the limitations described in the RWQCB ESL guidance documents, the presence of a chemical in soil, at concentrations below the corresponding ESL guidance concentration may be assumed to not pose a significant threat to human health and the environment. Additional evaluation may be necessary at sites where a chemical is present at concentrations above the corresponding ESL.

Additionally, detections of metals in soils which exceed the ESLs were compared to the *Kearney Foundation of Soil Science Division of Agriculture and Natural Resources University of California Background Concentrations of Trace and Major Elements in California Soils* (Bradford 1996) to evaluate a background threshold.

For this investigation, AEI understands the Site will be redeveloped for residential and/or mixed-commercial/residential use. Therefore, analytical results generated during this investigation were compared to the ESLs assuming a direct shallow soil contact for residential use.

A total of ten soil samples were analyzed. Tables 1 and 2 presents a summary of the soil sample analytical results. Chain of custody documentation and the certified analytical report are provided in Appendix A. Analytical results for the soil samples indicated the following:

- Arsenic was detected in five of the soil samples analyzed, observed at concentrations ranging from 2.12 milligrams per kilogram (mg/kg) (SS-2D) to 3.88 mg/kg (SS-4B). The concentrations of arsenic exceeded the residential ESL of 0.067 mg/kg but are below the typical background concentration of 11.0 mg/kg.
- Lead was detected five of the soil samples analyzed, observed at concentrations ranging from 6.65 mg/kg (SS-2D) to 13.0 mg/kg (SS-4B). The concentrations of lead were below the residential ESL of 82 mg/kg.
- The soil sample from SS-3C indicated concentrations of antimony, barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, vanadium, and zinc all below their respective ESLs.
- TPH as gasoline, diesel, and oil were detected in the soil sample SS-3C at concentrations below their respective ESLs.
- OCPs were not detected above the laboratory reporting limit in any of the soil samples collected and analyzed.

5.0 SUMMARY AND CONCLUSIONS

AEI has completed a Limited Soil Sample Investigation at the Site as described above. The purpose of the investigation is to assess the presence/absence of impacted subsurface conditions (i.e. soil) in relation the historical agricultural use identified at the Site. Four samples were taken from the SS-1 through SS-3 areas, and three samples were taken from the SS-4 and SS-5 areas. These samples were then composited into one sample for laboratory analysis. One discrete soil sample, SS-3C was collected adjacent to the storage shed in SS-3 area.

Arsenic was detected in five of the soil samples at concentrations above the residential ESL but are below the typical background concentrations. Lead was detected five of the soil samples at concentrations below the residential ESL. The soil sample from SS-3C indicated concentrations of antimony, barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, vanadium, and zinc below their respective ESLs. TPH as gasoline, diesel, and oil were detected in the soil sample SS-3C at concentrations below their respective ESLs. OCPs were not detected above the laboratory reporting limit in any of the soil samples collected and analyzed. Therefore, no further investigation is warranted relative to OCPs, metals, or TPH in shallow soils at the Site.

6.0 REFERENCES

AEI Consultants (AEI), 2019, *Draft Phase I Environmental Site Assessment*, *Mitchell Canyon Road, Clayton, California 94588,* dated April 9, 2019.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, *Environmental Screening Levels*, dated July 2019, revision 2.

G. R. Bradford, et. al (Bradford), 1996, *Background Concentrations of Trace and Major Elements in California Soils*, Kearney Foundation of Soil Science Division of Agriculture and Natural Resources, University of California dated March 1996.

7.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the subject property. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

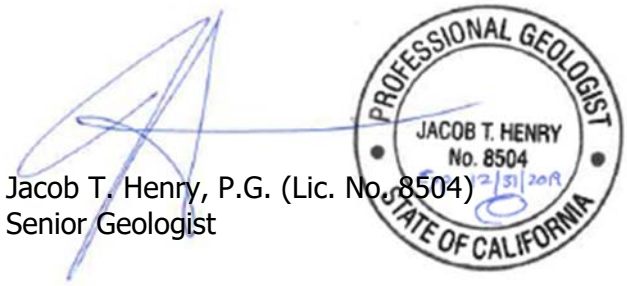
This investigation was prepared for the sole use and benefit of Ponderosa Homes II, Inc. All reports, both verbal and written, whether in draft or final, are for the benefit of Ponderosa Homes II, Inc. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Ponderosa Homes II, Inc. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact Peter McIntyre at 925-746-7600 or the undersigned.

Sincerely,
AEI Consultants



Peter McIntyre
Executive Vice President

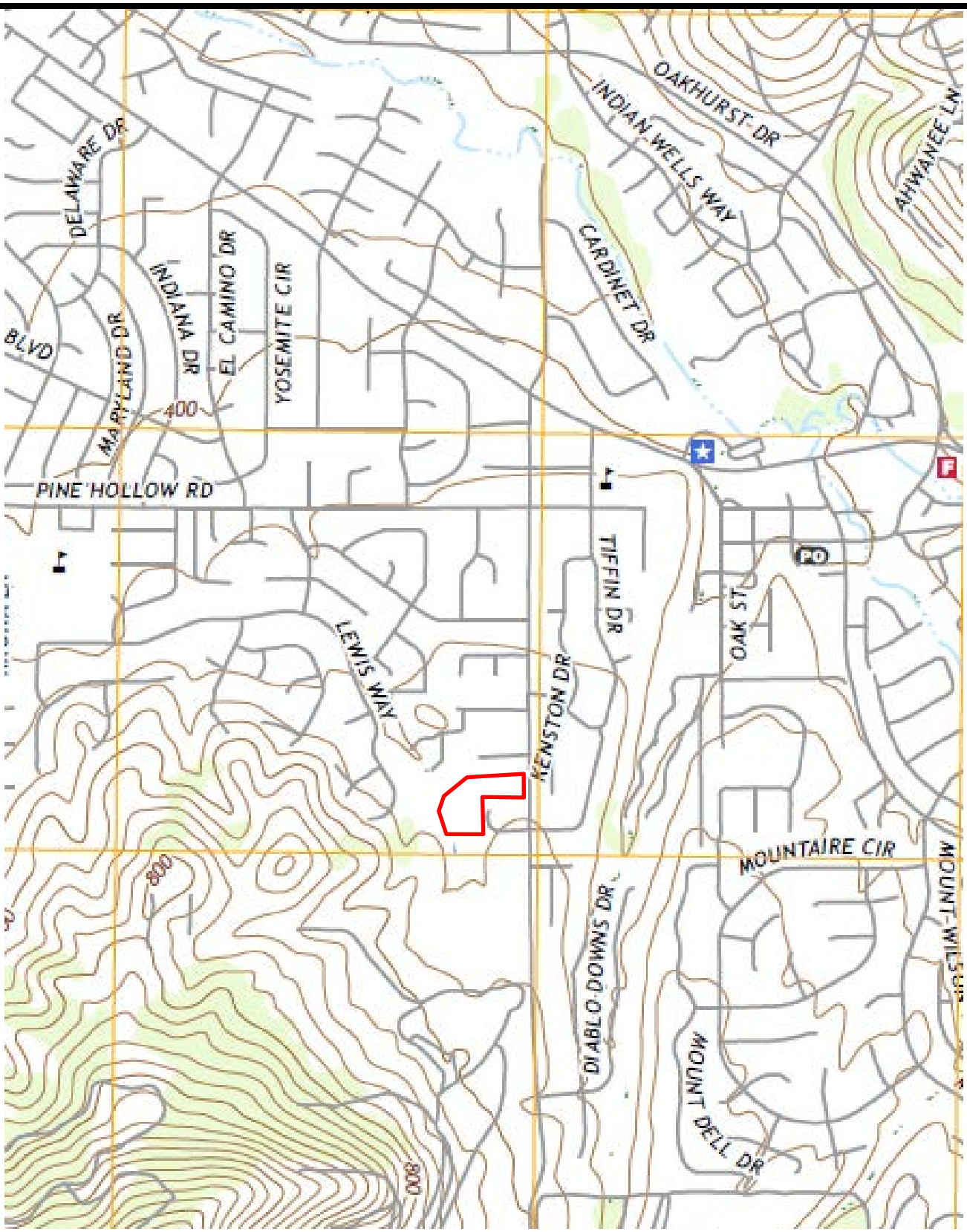


Jacob T. Henry, P.G. (Lic. No. 8504)
Senior Geologist

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
Phone: 925-746-6000

AEI Consultants

FIGURES



Legend
Approximate Property Boundary
Source: USGS Topographic Map *Clayton, California* (2018)

N

Figure 1: TOPOGRAPHIC MAP

Mitchell Canyon Road, Clayton, California 94517
Project Number: 408841

AEI Consultants



LEGEND

- Approximate Property Boundary
- Sample Location

0 75 150
SCALE: 1" = 40'

AEI Consultants

2500 Camino Diablo, Walnut Creek, California 94597

SITE MAP

Mitchell County Road,
Clayton, California 94517

FIGURE 2
Job Number 408841

TABLES

TABLE 1: SOIL SAMPLE DATA SUMMARY
Mitchell Canyon Road, Clayton, California 94517
AEI Project No. 40841

		U.S. EPA Method 8015M			U.S. EPA Method 8081
Location ID	**Date**	**TPH-g** (mg/kg)	**TPH-d** (mg/kg)	**TPH-o** (mg/kg)	**Pesticides** (mg/kg)
SS-1 COMP	8/29/2019	NA	NA	NA	<MDL
SS-2 COMP	8/29/2019	NA	NA	NA	<MDL
SS-3 COMP	8/29/2019	NA	NA	NA	<MDL
SS-4 COMP	8/29/2019	NA	NA	NA	<MDL
SS-5 COMP	8/29/2019	NA	NA	NA	<MDL
SS-3C	8/29/2019	0.523	1.82 J	22.2	<MDL
Comparison Values in mg/kg from SFBRWQCB Environmental Screening Levels (ESL), Table S-1, Res; July 2019 Revision 2		430	260	1,200	Varies

Notes:

	Analyses performed by Pace Analytical, Mt. Juliet, Tennessee
mg/kg	Milligrams per kilogram
ND<	Not detected above the method detection limit (MDL)
J	Estimated value above laboratory method detection limit, but below the limit for reporting
Table S-1	Direct Exposure Human Health Risk Levels
NA	Not Analyzed

TABLE 2: SOIL SAMPLE METALS DATA SUMMARY
Mitchell Canyon Road, Clayton, California 94517
AEI Project No. 408841

U.S. EPA Method 6020/7471A for Title-22 Metals (TTLC)

Location ID	Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SS-1C	8/29/2019	NA	2.97	NA	NA	NA	NA	NA	NA	9.06	NA	NA	NA	NA	NA	NA	NA	NA
SS-2D	8/29/2019	NA	2.12	NA	NA	NA	NA	NA	NA	6.65	NA	NA	NA	NA	NA	NA	NA	NA
SS-3C	8/29/2019	0.231 J	2.74	137	0.403 J	0.322 J	72.2	35.1	76.9	76.1	0.0753	0.0783 J	79.0	0.296 J	ND<0.162	ND<0.0994	164	553
SS-4B	8/29/2019	NA	3.88	NA	NA	NA	NA	NA	NA	13.0	NA	NA	NA	NA	NA	NA	NA	NA
SS-5B	8/29/2019	NA	3.12	NA	NA	NA	NA	NA	NA	9.89	NA	NA	NA	NA	NA	NA	NA	NA
Comparison Values based on California Maximum Background Concentration in mg/kg*		1.95	11.0	1,400	2.7	1.7	1,579	46.9	96.4	107.9	0.90	9.6	509	0.430	8.30	1.10	288	236
Comparison Values in mg/kg from Environmental Screening Levels, Table S-1, Res; SFBRWQCB, July 2019		11	0.067	15,000	1,600	910	--	420	3,100	82	13	390	15,000	390	390	0.78	390	23,000

Notes:

	Analyses performed by Pace Analytical, Mt. Juliet, Tennessee
mg/kg	Milligrams per kilogram
bgs	Below ground surface
ND<	Not detected above the method detection limit
EPA	Environmental Protection Agency
J	Estimated value above laboratory method detection limit, but below the limit for reporting
Bold	Result exceeds applicable Comparision Value
*	From Kearney Foundation of Soil Science 1996 Report "Background Concentrations of Trace and Major Elements in California Soils"
Title-22	Section of the California Code of Regulations (CCR) that regulates Environmental Health Standards for the Management of Hazardous Waste
Table S-1	Direct Exposure Human Health Risk Levels
Comm/Ind	Commercial/Industrial
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
NA	Not Analyzed
TTLC	Total Threshold Limit Concentration

APPENDIX A

LABORATORY ANALYTICAL REPORT

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

September 10, 2019

AEI Consultants - CA

Sample Delivery Group:	L1134784
Samples Received:	08/30/2019
Project Number:	408841
Description:	408841

Report To: Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page 1
Tc: Table of Contents 2
Ss: Sample Summary 3
Cn: Case Narrative 5
Sr: Sample Results 6
SS-2D L1134784-02 6
SS-3C L1134784-03 7
SS-4B L1134784-04 9
SS-5B L1134784-05 10
SS-1 COMP L1134784-06 11
SS-2 COMP L1134784-07 12
SS-3 COMP L1134784-08 13
SS-4 COMP L1134784-09 14
SS-5 COMP L1134784-10 15
SS-1C L1134784-11 16
Qc: Quality Control Summary 17
Total Solids by Method 2540 G-2011 17
Mercury by Method 7471A 20
Metals (ICPMS) by Method 6020 21
Volatile Organic Compounds (GC) by Method 8015 24
Semi-Volatile Organic Compounds (GC) by Method 8015 25
Pesticides (GC) by Method 8081 26
Gl: Glossary of Terms 28
Al: Accreditations & Locations 29
Sc: Sample Chain of Custody 30

SS-2D L1134784-02 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 10:15 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341033	1	09/06/19 16:47	09/06/19 16:58	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:27	LD	Mt. Juliet, TN

SS-3C L1134784-03 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 11:20 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1339240	1	09/04/19 12:47	09/04/19 20:36	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1340647	1.13	08/29/19 11:20	09/05/19 16:16	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1340597	1	09/05/19 19:00	09/06/19 18:18	DMW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 16:25	RP	Mt. Juliet, TN

SS-4B L1134784-04 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 11:52 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:34	LD	Mt. Juliet, TN

SS-5B L1134784-05 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 12:15 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1338888	5	09/03/19 19:41	09/04/19 18:37	LD	Mt. Juliet, TN

SS-1 COMP L1134784-06 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 16:37	RP	Mt. Juliet, TN

SS-2 COMP L1134784-07 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:14	RP	Mt. Juliet, TN

SS-3 COMP L1134784-08 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:26	RP	Mt. Juliet, TN

SS-4 COMP L1134784-09 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:39	RP	Mt. Juliet, TN

SS-5 COMP L1134784-10 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 00:00 | Received date/time: 08/30/19 09:00

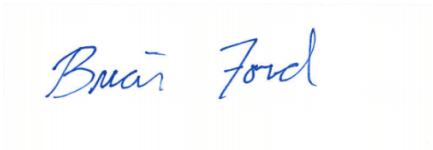
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1341034	1	09/06/19 17:00	09/06/19 17:10	KDW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1340615	1	09/05/19 20:56	09/06/19 17:51	RP	Mt. Juliet, TN

SS-1C L1134784-11 Solid

Collected by: A. Borges | Collected date/time: 08/29/19 09:14 | Received date/time: 08/30/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1342434	1	09/10/19 06:00	09/10/19 06:10	KBC	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1342428	5	09/09/19 13:57	09/09/19 16:12	LAT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.7		1	09/06/2019 16:58	WG1341033

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.12		0.144	0.577	5	09/04/2019 18:27	WG1338888
Lead	6.65		0.138	0.577	5	09/04/2019 18:27	WG1338888

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	09/06/2019 17:10	WG1341034

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0753		0.00293	0.0314	1	09/04/2019 20:36	WG1339240

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.231	J	0.165	0.523	5	09/04/2019 18:31	WG1338888
Arsenic	2.74		0.131	0.523	5	09/04/2019 18:31	WG1338888
Barium	137		0.167	1.05	5	09/04/2019 18:31	WG1338888
Beryllium	0.403	J	0.0628	0.523	5	09/04/2019 18:31	WG1338888
Cadmium	0.322	J	0.0837	0.523	5	09/04/2019 18:31	WG1338888
Chromium	72.2		0.282	1.05	5	09/04/2019 18:31	WG1338888
Cobalt	35.1		0.136	0.523	5	09/04/2019 18:31	WG1338888
Copper	76.9		0.272	1.05	5	09/04/2019 18:31	WG1338888
Lead	76.1		0.126	0.523	5	09/04/2019 18:31	WG1338888
Molybdenum	0.0783	J	0.0732	1.05	5	09/04/2019 18:31	WG1338888
Nickel	79.0		0.183	0.523	5	09/04/2019 18:31	WG1338888
Selenium	0.296	J	0.199	0.523	5	09/04/2019 18:31	WG1338888
Silver	U		0.162	0.523	5	09/04/2019 18:31	WG1338888
Thallium	U		0.0994	0.523	5	09/04/2019 18:31	WG1338888
Vanadium	164		0.0941	1.05	5	09/04/2019 18:31	WG1338888
Zinc	553		1.34	5.23	5	09/04/2019 18:31	WG1338888

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.523		0.0392	0.118	1.13	09/05/2019 16:16	WG1340647
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*09/05/2019 16:16*	WG1340647

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	1.82	J	0.767	4.18	1	09/06/2019 18:18	WG1340597
C22-C32 Hydrocarbons	12.1		1.39	4.18	1	09/06/2019 18:18	WG1340597
C32-C40 Hydrocarbons	10.1		1.39	4.18	1	09/06/2019 18:18	WG1340597
(S) o-Terphenyl	*78.4*			*18.0-148*		*09/06/2019 18:18*	WG1340597

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0209	1	09/06/2019 16:25	WG1340615
Alpha BHC	U		0.000202	0.0209	1	09/06/2019 16:25	WG1340615
Beta BHC	U		0.000317	0.0209	1	09/06/2019 16:25	WG1340615
Delta BHC	U		0.000158	0.0209	1	09/06/2019 16:25	WG1340615
Gamma BHC	U		0.000256	0.0209	1	09/06/2019 16:25	WG1340615
4,4-DDD	U		0.000172	0.0209	1	09/06/2019 16:25	WG1340615
4,4-DDE	U		0.000173	0.0209	1	09/06/2019 16:25	WG1340615
4,4-DDT	U		0.000278	0.0209	1	09/06/2019 16:25	WG1340615
Dieldrin	U		0.0000931	0.00209	1	09/06/2019 16:25	WG1340615

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.000224	0.0209	1	09/06/2019 16:25	WG1340615
Endosulfan II	U		0.000241	0.0209	1	09/06/2019 16:25	WG1340615
Endosulfan sulfate	U		0.000178	0.0209	1	09/06/2019 16:25	WG1340615
Endrin	U		0.000229	0.0209	1	09/06/2019 16:25	WG1340615
Endrin aldehyde	U		0.000253	0.0209	1	09/06/2019 16:25	WG1340615
Endrin ketone	U		0.000166	0.0209	1	09/06/2019 16:25	WG1340615
Heptachlor	U		0.000106	0.0209	1	09/06/2019 16:25	WG1340615
Heptachlor epoxide	U		0.000395	0.0209	1	09/06/2019 16:25	WG1340615
Hexachlorobenzene	U		0.000234	0.0209	1	09/06/2019 16:25	WG1340615
Methoxychlor	U		0.000277	0.0209	1	09/06/2019 16:25	WG1340615
Chlordane	U		0.0408	0.209	1	09/06/2019 16:25	WG1340615
Toxaphene	U		0.0377	0.418	1	09/06/2019 16:25	WG1340615
(S) Decachlorobiphenyl	*71.5*			*10.0-135*		*09/06/2019 16:25*	WG1340615
(S) Tetrachloro-m-xylene	*57.9*			*10.0-139*		*09/06/2019 16:25*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	09/06/2019 17:10	WG1341034

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.88		0.131	0.524	5	09/04/2019 18:34	WG1338888
Lead	13.0		0.126	0.524	5	09/04/2019 18:34	WG1338888

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	09/06/2019 17:10	WG1341034

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.12		0.132	0.527	5	09/04/2019 18:37	WG1338888
Lead	9.89		0.126	0.527	5	09/04/2019 18:37	WG1338888

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000254	0.0218	1	09/06/2019 16:37	WG1340615
Alpha BHC	U		0.000210	0.0218	1	09/06/2019 16:37	WG1340615
Beta BHC	U		0.000330	0.0218	1	09/06/2019 16:37	WG1340615
Delta BHC	U		0.000164	0.0218	1	09/06/2019 16:37	WG1340615
Gamma BHC	U		0.000267	0.0218	1	09/06/2019 16:37	WG1340615
4,4-DDD	U		0.000179	0.0218	1	09/06/2019 16:37	WG1340615
4,4-DDE	U		0.000180	0.0218	1	09/06/2019 16:37	WG1340615
4,4-DDT	U		0.000290	0.0218	1	09/06/2019 16:37	WG1340615
Dieldrin	U		0.0000969	0.00218	1	09/06/2019 16:37	WG1340615
Endosulfan I	U		0.000233	0.0218	1	09/06/2019 16:37	WG1340615
Endosulfan II	U		0.000250	0.0218	1	09/06/2019 16:37	WG1340615
Endosulfan sulfate	U		0.000185	0.0218	1	09/06/2019 16:37	WG1340615
Endrin	U		0.000238	0.0218	1	09/06/2019 16:37	WG1340615
Endrin aldehyde	U		0.000263	0.0218	1	09/06/2019 16:37	WG1340615
Endrin ketone	U		0.000173	0.0218	1	09/06/2019 16:37	WG1340615
Heptachlor	U		0.000110	0.0218	1	09/06/2019 16:37	WG1340615
Heptachlor epoxide	U		0.000412	0.0218	1	09/06/2019 16:37	WG1340615
Hexachlorobenzene	U		0.000244	0.0218	1	09/06/2019 16:37	WG1340615
Methoxychlor	U		0.000289	0.0218	1	09/06/2019 16:37	WG1340615
Chlordane	U		0.0425	0.218	1	09/06/2019 16:37	WG1340615
Toxaphene	U		0.0392	0.435	1	09/06/2019 16:37	WG1340615
(S) Decachlorobiphenyl	*102*			*10.0-135*		*09/06/2019 16:37*	WG1340615
(S) Tetrachloro-m-xylene	*77.9*			*10.0-139*		*09/06/2019 16:37*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000265	0.0227	1	09/06/2019 17:14	WG1340615
Alpha BHC	U		0.000219	0.0227	1	09/06/2019 17:14	WG1340615
Beta BHC	U		0.000344	0.0227	1	09/06/2019 17:14	WG1340615
Delta BHC	U		0.000172	0.0227	1	09/06/2019 17:14	WG1340615
Gamma BHC	U		0.000278	0.0227	1	09/06/2019 17:14	WG1340615
4,4-DDD	U		0.000186	0.0227	1	09/06/2019 17:14	WG1340615
4,4-DDE	U		0.000188	0.0227	1	09/06/2019 17:14	WG1340615
4,4-DDT	U		0.000302	0.0227	1	09/06/2019 17:14	WG1340615
Dieldrin	U		0.000101	0.00227	1	09/06/2019 17:14	WG1340615
Endosulfan I	U		0.000243	0.0227	1	09/06/2019 17:14	WG1340615
Endosulfan II	U		0.000261	0.0227	1	09/06/2019 17:14	WG1340615
Endosulfan sulfate	U		0.000193	0.0227	1	09/06/2019 17:14	WG1340615
Endrin	U		0.000249	0.0227	1	09/06/2019 17:14	WG1340615
Endrin aldehyde	U		0.000275	0.0227	1	09/06/2019 17:14	WG1340615
Endrin ketone	U		0.000181	0.0227	1	09/06/2019 17:14	WG1340615
Heptachlor	U		0.000115	0.0227	1	09/06/2019 17:14	WG1340615
Heptachlor epoxide	U		0.000430	0.0227	1	09/06/2019 17:14	WG1340615
Hexachlorobenzene	U		0.000255	0.0227	1	09/06/2019 17:14	WG1340615
Methoxychlor	U		0.000301	0.0227	1	09/06/2019 17:14	WG1340615
Chlordane	U		0.0443	0.227	1	09/06/2019 17:14	WG1340615
Toxaphene	U		0.0409	0.455	1	09/06/2019 17:14	WG1340615
(S) Decachlorobiphenyl	*95.2*			*10.0-135*		*09/06/2019 17:14*	WG1340615
(S) Tetrachloro-m-xylene	*74.3*			*10.0-139*		*09/06/2019 17:14*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000259	0.0222	1	09/06/2019 17:26	WG1340615
Alpha BHC	U		0.000215	0.0222	1	09/06/2019 17:26	WG1340615
Beta BHC	U		0.000337	0.0222	1	09/06/2019 17:26	WG1340615
Delta BHC	U		0.000168	0.0222	1	09/06/2019 17:26	WG1340615
Gamma BHC	U		0.000272	0.0222	1	09/06/2019 17:26	WG1340615
4,4-DDD	U		0.000182	0.0222	1	09/06/2019 17:26	WG1340615
4,4-DDE	U		0.000183	0.0222	1	09/06/2019 17:26	WG1340615
4,4-DDT	U		0.000296	0.0222	1	09/06/2019 17:26	WG1340615
Dieldrin	U		0.0000989	0.00222	1	09/06/2019 17:26	WG1340615
Endosulfan I	U		0.000238	0.0222	1	09/06/2019 17:26	WG1340615
Endosulfan II	U		0.000256	0.0222	1	09/06/2019 17:26	WG1340615
Endosulfan sulfate	U		0.000189	0.0222	1	09/06/2019 17:26	WG1340615
Endrin	U		0.000243	0.0222	1	09/06/2019 17:26	WG1340615
Endrin aldehyde	U		0.000269	0.0222	1	09/06/2019 17:26	WG1340615
Endrin ketone	U		0.000177	0.0222	1	09/06/2019 17:26	WG1340615
Heptachlor	U		0.000112	0.0222	1	09/06/2019 17:26	WG1340615
Heptachlor epoxide	U		0.000420	0.0222	1	09/06/2019 17:26	WG1340615
Hexachlorobenzene	U		0.000249	0.0222	1	09/06/2019 17:26	WG1340615
Methoxychlor	U		0.000295	0.0222	1	09/06/2019 17:26	WG1340615
Chlordane	U		0.0434	0.222	1	09/06/2019 17:26	WG1340615
Toxaphene	U		0.0400	0.445	1	09/06/2019 17:26	WG1340615
(S) Decachlorobiphenyl	*89.1*			*10.0-135*		*09/06/2019 17:26*	WG1340615
(S) Tetrachloro-m-xylene	*70.4*			*10.0-139*		*09/06/2019 17:26*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0209	1	09/06/2019 17:39	WG1340615
Alpha BHC	U		0.000202	0.0209	1	09/06/2019 17:39	WG1340615
Beta BHC	U		0.000317	0.0209	1	09/06/2019 17:39	WG1340615
Delta BHC	U		0.000158	0.0209	1	09/06/2019 17:39	WG1340615
Gamma BHC	U		0.000256	0.0209	1	09/06/2019 17:39	WG1340615
4,4-DDD	U		0.000172	0.0209	1	09/06/2019 17:39	WG1340615
4,4-DDE	U		0.000173	0.0209	1	09/06/2019 17:39	WG1340615
4,4-DDT	U		0.000278	0.0209	1	09/06/2019 17:39	WG1340615
Dieldrin	U		0.0000931	0.00209	1	09/06/2019 17:39	WG1340615
Endosulfan I	U		0.000224	0.0209	1	09/06/2019 17:39	WG1340615
Endosulfan II	U		0.000241	0.0209	1	09/06/2019 17:39	WG1340615
Endosulfan sulfate	U		0.000178	0.0209	1	09/06/2019 17:39	WG1340615
Endrin	U		0.000229	0.0209	1	09/06/2019 17:39	WG1340615
Endrin aldehyde	U		0.000253	0.0209	1	09/06/2019 17:39	WG1340615
Endrin ketone	U		0.000166	0.0209	1	09/06/2019 17:39	WG1340615
Heptachlor	U		0.000106	0.0209	1	09/06/2019 17:39	WG1340615
Heptachlor epoxide	U		0.000395	0.0209	1	09/06/2019 17:39	WG1340615
Hexachlorobenzene	U		0.000234	0.0209	1	09/06/2019 17:39	WG1340615
Methoxychlor	U		0.000277	0.0209	1	09/06/2019 17:39	WG1340615
Chlordane	U		0.0408	0.209	1	09/06/2019 17:39	WG1340615
Toxaphene	U		0.0377	0.418	1	09/06/2019 17:39	WG1340615
(S) Decachlorobiphenyl	*86.9*			*10.0-135*		*09/06/2019 17:39*	WG1340615
(S) Tetrachloro-m-xylene	*67.8*			*10.0-139*		*09/06/2019 17:39*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	09/06/2019 17:10	WG1341034

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0209	1	09/06/2019 17:51	WG1340615
Alpha BHC	U		0.000202	0.0209	1	09/06/2019 17:51	WG1340615
Beta BHC	U		0.000317	0.0209	1	09/06/2019 17:51	WG1340615
Delta BHC	U		0.000158	0.0209	1	09/06/2019 17:51	WG1340615
Gamma BHC	U		0.000257	0.0209	1	09/06/2019 17:51	WG1340615
4,4-DDD	U		0.000172	0.0209	1	09/06/2019 17:51	WG1340615
4,4-DDE	U		0.000173	0.0209	1	09/06/2019 17:51	WG1340615
4,4-DDT	U		0.000279	0.0209	1	09/06/2019 17:51	WG1340615
Dieldrin	U		0.0000932	0.00209	1	09/06/2019 17:51	WG1340615
Endosulfan I	U		0.000224	0.0209	1	09/06/2019 17:51	WG1340615
Endosulfan II	U		0.000241	0.0209	1	09/06/2019 17:51	WG1340615
Endosulfan sulfate	U		0.000178	0.0209	1	09/06/2019 17:51	WG1340615
Endrin	U		0.000229	0.0209	1	09/06/2019 17:51	WG1340615
Endrin aldehyde	U		0.000253	0.0209	1	09/06/2019 17:51	WG1340615
Endrin ketone	U		0.000167	0.0209	1	09/06/2019 17:51	WG1340615
Heptachlor	U		0.000106	0.0209	1	09/06/2019 17:51	WG1340615
Heptachlor epoxide	U		0.000396	0.0209	1	09/06/2019 17:51	WG1340615
Hexachlorobenzene	U		0.000235	0.0209	1	09/06/2019 17:51	WG1340615
Methoxychlor	U		0.000278	0.0209	1	09/06/2019 17:51	WG1340615
Chlordane	U		0.0408	0.209	1	09/06/2019 17:51	WG1340615
Toxaphene	U		0.0377	0.419	1	09/06/2019 17:51	WG1340615
(S) Decachlorobiphenyl	*85.9*			*10.0-135*		*09/06/2019 17:51*	WG1340615
(S) Tetrachloro-m-xylene	*67.6*			*10.0-139*		*09/06/2019 17:51*	WG1340615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	09/10/2019 06:10	WG1342434

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.97		0.144	0.575	5	09/09/2019 16:12	WG1342428
Lead	9.06		0.138	0.575	5	09/09/2019 16:12	WG1342428

Method Blank (MB)

(MB) R3448117-1 09/06/19 16:58

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1134780-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1134780-01 09/06/19 16:58 • (DUP) R3448117-3 09/06/19 16:58

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.9	75.5	1	0.594		10

Laboratory Control Sample (LCS)

(LCS) R3448117-2 09/06/19 16:58

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

Method Blank (MB)

(MB) R3448118-1 09/06/19 17:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1134790-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1134790-01 09/06/19 17:10 • (DUP) R3448118-3 09/06/19 17:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.1	93.9	1	0.235		10

Laboratory Control Sample (LCS)

(LCS) R3448118-2 09/06/19 17:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3449022-1 09/10/19 06:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1134925-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1134925-03 09/10/19 06:10 • (DUP) R3449022-3 09/10/19 06:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.9	82.6	1	0.793		10

Laboratory Control Sample (LCS)

(LCS) R3449022-2 09/10/19 06:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3447324-1 09/04/19 20:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3447324-2 09/04/19 20:31 • (LCSD) R3447324-3 09/04/19 20:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.509	0.500	102	100	80.0-120			1.69	20

L1134784-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134784-03 09/04/19 20:36 • (MS) R3447324-4 09/04/19 20:39 • (MSD) R3447324-5 09/04/19 20:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.523	0.0753	0.590	0.586	98.5	97.6	1	75.0-125			0.745	20

Method Blank (MB)

(MB) R3447291-8 09/04/19 17:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.158	0.500
Arsenic	U		0.125	0.500
Barium	U		0.160	1.00
Beryllium	U		0.0600	0.500
Cadmium	U		0.0800	0.500
Chromium	U		0.270	1.00
Cobalt	U		0.130	0.500
Copper	U		0.260	1.00
Lead	U		0.120	0.500
Molybdenum	U		0.0700	1.00
Nickel	U		0.175	0.500
Selenium	U		0.190	0.500
Silver	U		0.155	0.500
Thallium	U		0.0950	0.500
Vanadium	U		0.0900	1.00
Zinc	U		1.28	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3447291-9 09/04/19 17:03 • (LCSD) R3447291-10 09/04/19 17:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	111	114	111	114	80.0-120			2.98	20
Arsenic	100	93.4	96.3	93.4	96.3	80.0-120			3.09	20
Barium	100	98.7	103	98.7	103	80.0-120			4.24	20
Beryllium	100	97.2	99.6	97.2	99.6	80.0-120			2.45	20
Cadmium	100	99.0	101	99.0	101	80.0-120			2.45	20
Chromium	100	97.9	101	97.9	101	80.0-120			3.22	20
Cobalt	100	99.0	102	99.0	102	80.0-120			3.27	20
Copper	100	90.3	92.3	90.3	92.3	80.0-120			2.15	20
Lead	100	96.8	99.2	96.8	99.2	80.0-120			2.46	20
Molybdenum	100	99.4	102	99.4	102	80.0-120			2.58	20
Nickel	100	98.8	103	98.8	103	80.0-120			4.02	20
Selenium	100	98.1	99.6	98.1	99.6	80.0-120			1.53	20
Silver	20.0	20.0	20.7	100	104	80.0-120			3.31	20
Thallium	100	95.8	100	95.8	100	80.0-120			4.35	20
Vanadium	100	96.3	99.3	96.3	99.3	80.0-120			3.09	20
Zinc	100	98.3	102	98.3	102	80.0-120			3.51	20

L1134754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134754-01 09/04/19 17:10 • (MS) R3447291-13 09/04/19 17:20 • (MSD) R3447291-14 09/04/19 17:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	23.1	1.03	72.1	66.1	61.5	56.3	5	75.0-125	J6	J6	8.67	20
Arsenic	23.1	21.9	107	112	74.1	78.0	5	75.0-125	J6		4.16	20
Barium	23.1	65.1	158	169	80.1	90.2	5	75.0-125			7.13	20
Beryllium	23.1	1.28	102	107	86.8	91.8	5	75.0-125			5.60	20
Cadmium	23.1	0.835	109	111	93.9	95.3	5	75.0-125			1.50	20
Chromium	23.1	19.4	117	124	84.6	90.3	5	75.0-125			5.45	20
Cobalt	23.1	9.83	110	111	86.5	87.7	5	75.0-125			1.30	20
Copper	23.1	13.3	105	106	79.6	80.0	5	75.0-125			0.419	20
Lead	23.1	52.3	153	156	87.4	89.5	5	75.0-125			1.60	20
Molybdenum	23.1	2.38	109	110	92.5	93.2	5	75.0-125			0.827	20
Nickel	23.1	25.5	122	119	83.7	81.1	5	75.0-125			2.49	20
Selenium	23.1	0.827	103	109	88.1	93.8	5	75.0-125			6.20	20
Silver	4.62	U	22.1	22.5	95.6	97.4	5	75.0-125			1.82	20
Thallium	23.1	0.622	106	106	91.0	91.0	5	75.0-125			0.00125	20
Vanadium	23.1	51.3	140	145	76.6	81.0	5	75.0-125			3.60	20
Zinc	23.1	72.7	157	168	72.7	82.6	5	75.0-125	J6		7.07	20

Method Blank (MB)

(MB) R3448787-1 09/09/19 15:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Arsenic	U		0.125	0.500
Lead	U		0.120	0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3448787-2 09/09/19 16:03 • (LCSD) R3448787-3 09/09/19 16:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Arsenic	100	96.7	94.8	96.7	94.8	80.0-120			2.00	20
Lead	100	96.2	95.1	96.2	95.1	80.0-120			1.20	20

L1134784-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134784-11 09/09/19 16:12 • (MS) R3448787-6 09/09/19 16:26 • (MSD) R3448787-7 09/09/19 16:30

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	23.0	2.97	94.6	104	79.7	87.6	5	75.0-125			9.13	20
Lead	23.0	9.06	114	120	91.3	96.4	5	75.0-125			5.04	20

Method Blank (MB)

(MB) R3447908-2 09/05/19 11:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	U		0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3447908-1 09/05/19 10:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	5.07	92.1	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

Method Blank (MB)

(MB) R3447844-1 09/06/19 01:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*76.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3447844-2 09/06/19 01:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	17.7	70.8	50.0-150	
C12-C22 Hydrocarbons	25.0	18.0	72.0	50.0-150	
(S) o-Terphenyl			*77.0*	*18.0-148*	

L1134328-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134328-24 09/06/19 18:32 • (MS) R3447941-1 09/06/19 18:46 • (MSD) R3447941-2 09/06/19 19:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	25.9	16.7	38.3	37.7	83.6	81.2	5	50.0-150			1.63	20
C12-C22 Hydrocarbons	25.9	4.83	25.0	24.4	96.8	94.4	5	50.0-150			2.51	20
(S) o-Terphenyl					*77.8*	*67.7*		*18.0-148*				

Sample Narrative:

OS: Diluted due to extract viscosity

Method Blank (MB)

(MB) R3448167-1 09/06/19 15:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*107*			*10.0-135*
(S) Tetrachloro-m-xylene	*83.5*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3448167-2 09/06/19 15:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0621	93.2	34.0-136	
Alpha BHC	0.0666	0.0659	98.9	34.0-139	
Beta BHC	0.0666	0.0615	92.3	34.0-133	
Delta BHC	0.0666	0.0656	98.5	34.0-135	
Gamma BHC	0.0666	0.0668	100	34.0-136	
4,4-DDD	0.0666	0.0652	97.9	33.0-141	
4,4-DDE	0.0666	0.0662	99.4	34.0-134	
4,4-DDT	0.0666	0.0722	108	30.0-143	
Dieldrin	0.0666	0.0631	94.7	35.0-137	
Endosulfan I	0.0666	0.0637	95.6	34.0-134	

Laboratory Control Sample (LCS)

(LCS) R3448167-2 09/06/19 15:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0636	95.5	35.0-132	
Endosulfan sulfate	0.0666	0.0654	98.2	35.0-132	
Endrin	0.0666	0.0635	95.3	34.0-137	
Endrin aldehyde	0.0666	0.0557	83.6	23.0-121	
Endrin ketone	0.0666	0.0760	114	35.0-144	
Heptachlor	0.0666	0.0698	105	36.0-141	
Heptachlor epoxide	0.0666	0.0638	95.8	36.0-134	
Hexachlorobenzene	0.0666	0.0680	102	33.0-129	
Methoxychlor	0.0666	0.0693	104	28.0-150	
(S) Decachlorobiphenyl			*119*	*10.0-135*	
(S) Tetrachloro-m-xylene			*95.5*	*10.0-139*	

L1134784-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134784-06 09/06/19 16:37 • (MS) R3448167-3 09/06/19 16:49 • (MSD) R3448167-4 09/06/19 17:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0725	U	0.0469	0.0557	64.7	76.9	1	20.0-135			17.2	37
Alpha BHC	0.0725	U	0.0502	0.0592	69.2	81.7	1	27.0-140			16.5	35
Beta BHC	0.0725	U	0.0479	0.0561	66.1	77.3	1	23.0-141			15.7	37
Delta BHC	0.0725	U	0.0478	0.0569	65.9	78.5	1	21.0-138			17.5	35
Gamma BHC	0.0725	U	0.0510	0.0602	70.3	83.0	1	27.0-137			16.7	36
4,4-DDD	0.0725	U	0.0501	0.0594	69.1	82.0	1	15.0-152			17.1	39
4,4-DDE	0.0725	U	0.0511	0.0601	70.4	82.9	1	10.0-152			16.3	40
4,4-DDT	0.0725	U	0.0582	0.0678	80.3	93.5	1	10.0-151			15.2	40
Dieldrin	0.0725	U	0.0483	0.0572	66.7	78.8	1	17.0-145			16.7	37
Endosulfan I	0.0725	U	0.0482	0.0577	66.5	79.6	1	20.0-137			17.9	36
Endosulfan II	0.0725	U	0.0487	0.0575	67.1	79.3	1	15.0-141			16.6	37
Endosulfan sulfate	0.0725	U	0.0505	0.0592	69.7	81.7	1	15.0-143			15.9	38
Endrin	0.0725	U	0.0490	0.0587	67.6	80.9	1	19.0-143			18.0	37
Endrin aldehyde	0.0725	U	0.0471	0.0547	65.0	75.4	1	10.0-139			14.8	40
Endrin ketone	0.0725	U	0.0576	0.0678	79.4	93.5	1	17.0-149			16.3	38
Heptachlor	0.0725	U	0.0519	0.0623	71.6	85.9	1	22.0-138			18.1	37
Heptachlor epoxide	0.0725	U	0.0490	0.0578	67.6	79.7	1	22.0-138			16.5	36
Hexachlorobenzene	0.0725	U	0.0520	0.0621	71.8	85.6	1	25.0-126			17.6	35
Methoxychlor	0.0725	U	0.0545	0.0634	75.2	87.4	1	10.0-159			15.0	40
(S) Decachlorobiphenyl					*80.2*	*90.1*		*10.0-135*				
(S) Tetrachloro-m-xylene					*61.9*	*71.5*		*10.0-139*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

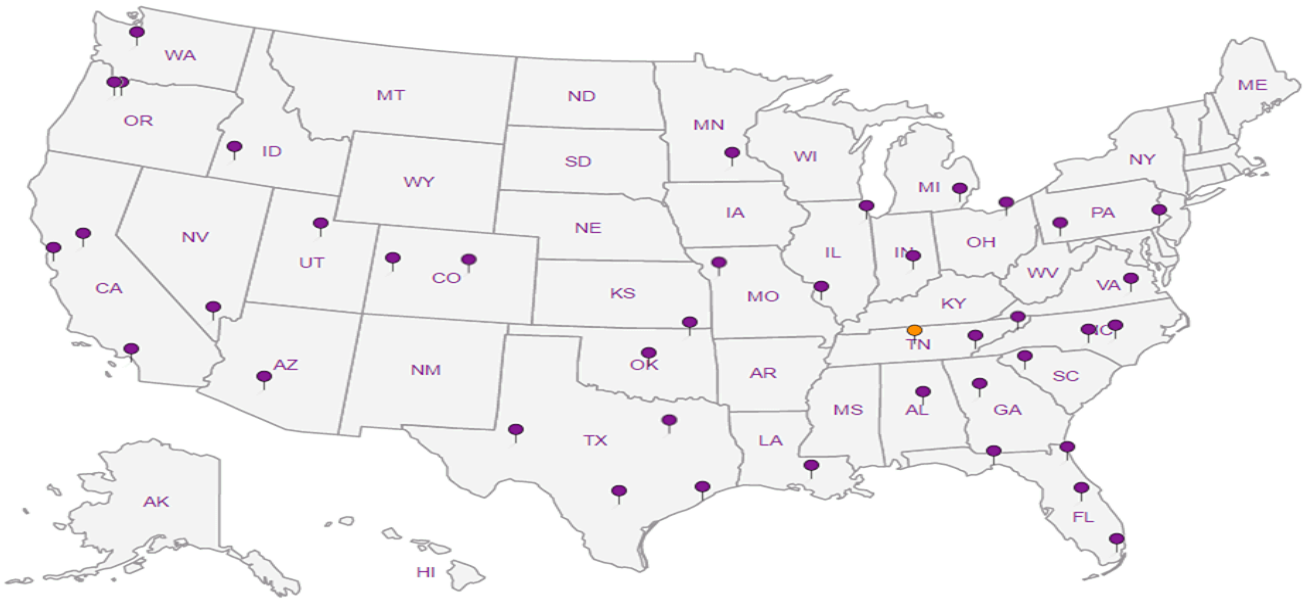
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project: 408841 Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028 Fax:

Client Project #: 408841

Lab Project #: AEICONWCCA-SMITH

Collected by (print):

Site/Facility ID #

P.O. #: 204678

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784

Table #

Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	Composite to 1 Sample	Remarks	Sample # (lab only)
SS-1-A		SS	6"	8/29/19	0914	2									06
SS-1-B		SS			0943	2									06
SS-1-C		SS			1023	2	X								06
SS-1-D		SS			1008	2									-01 06
SS-2A		SS			1010	2									06
SS-2B		SS			1015	2									07
SS-2C		SS			1056	2									07
SS-2D		SS			1101	2	X								07
SS-2A		SS				2									02 07
SS-3B		SS				2									08

(1) (2) (3)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Composite into 1 Sample where indicated

pH ___ Temp ___ Flow ___ Other ___

Samples returned via: ___ UPS X FedEx ___ Courier ___

Tracking # 4510 1650 1961-50

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by: (Signature)	Date: 8/29/19	Time: 1:25 PM	Received by: (Signature)	Trip Blank Received: Yes / No; HCL / MeOH; TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 5.7 -.1 = 5.6 Bottles Received: 41
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-30-19 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028
Fax:

Client Project # 408841

Lab Project # AEICONWCCA-SMITH

Collected by (print):

P.O.# 204678

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Date Results Needed

Quote #

Chain of Custody Page 2 of 2

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784

Table #

Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	LMW Hydrocarbon Surrogates (SV)	Low Levels	3 Composite	Remarks	Sample # (lab only)
SS-3C		SS	6	8/29/19	11:20	7		X	X	X		X			3		03
SS-3D		SS	1	1	1135	2						2			X		08
SS-4A		SS			1141	2						2					09
SS-4B		SS			1152	2	X					2					04
SS-4C		SS			1201	2						2					09
SS-5A		SS			1206	2						2					09
SS-5B		SS			1215	2	X					2					09
SS-5C	V	SS	V	V	1225	2						2					05
		SS															10
		SS															
		SS															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: 3C-Discrete OCP Analysis
3A/B/D - 3Pt OCP Composite

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 4510 1650 1961-50

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No (HCL / MeoH) TBR	If preservation required by Login: Date/Time
	8/29/19	1:25 Pm		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				5.7-.1=5.6 41	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				8-30-19 9:00	

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project 408841 Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028
Fax:

Client Project # 4088411

Lab Project # AEICONWCCA-SMITH

Collected by (print): A. Borges

Site/Facility ID #

P.O. # 204678

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	Remarks	Sample # (lab only)
SS-1-A		SS	6"	8/29/19	939	2								
SS-1-B		SS			928	2								
SS-1-C		SS			914	2								
SS-1-D		SS			947	2								
SS-2A		SS			1023	2								
SS-2B		SS			1008	2								
SS-2C		SS			1040	2								
SS-2D		SS			1015	2								
SS-3A		SS			1056	2								
SS-3B		SS			1101	2								

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784
Ta H149
Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4510 1650 1961-50

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	8/29/19	1:25 PM		1	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.5°C 5.7-1=5.6	Bottles Received: 41
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-30-19	Time: 9:10

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Jeremy Smith

Email To: jasmith@aeiconsultants.com

Project Description:

City/State Collected: Clayton, CA

Please Circle: PT MT CT ET

Phone: 925-746-6028
Fax:

Client Project # 408841

Lab Project # AEICONWCCA-SMITH

Collected by (print): A. Borges

Site/Facility ID #

P.O. # 204678

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1134784

Table #

Acctnum: AEICONWCCA
Template: T155176
Prelogin: P726667
PM: 110 - Brian Ford
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As Pb 6020 4ozClr-NoPres	CAM17 Metals 6020 4ozClr-NoPres	DRO/ORO-CA 4ozClr-NoPres	GRO-CA 2ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	OCPs (SV8081CA) 4ozClr-NoPres	Waiting on Supervisor for tests				Remarks	Sample # (lab only)
SS-3C		SS	6"	8/29/19	11:20	7												
SS-3D		SS			1135	2												
SS-4A		SS			1141	2												
SS-4B		SS			1152	2												
SS-4C		SS			1201	2												
SS-5A		SS			1206	2												
SS-5B		SS			1215	2												
SS-5C		SS			1225	2												
		SS																
		SS																

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4510 1650 1961 -50

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	8/29/19	1:25 pm		1
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: A5 BF °C 5.7-.1=5.6 Bottles Received: 41
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-30-19 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Appendix C -

Regulatory Records Documentation (with EDR Database Searches)

Clayton Trust Property
Mitchell Canyon Road
Clayton, CA 94517

Inquiry Number: 5957509.2s
February 03, 2020

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	58
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MITCHELL CANYON ROAD
CLAYTON, CA 94517

COORDINATES

Latitude (North):	37.9352440 - 37° 56' 6.87''
Longitude (West):	121.9439200 - 121° 56' 38.11''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592806.1
UTM Y (Meters):	4198950.5
Elevation:	493 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
MITCHELL CANYON ROAD
CLAYTON, CA 94517

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1		5849 MITCHELL CANYON	RCRA NonGen / NLR	Lower	454, 0.086, NE
A2	ZACK & KIKI TURNIN	1205 AMARANTH DR	RCRA NonGen / NLR	Lower	1057, 0.200, NNW
A3		1211 AMARANTH WAY	RCRA NonGen / NLR	Lower	1141, 0.216, NNW
4	MICHAEL SIBBITT	890 COACHMAN PLACE	RCRA NonGen / NLR	Lower	1150, 0.218, SE
5		1215 AMARANTH WAY	RCRA NonGen / NLR	Lower	1187, 0.225, NNW
6	CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	MINES	Higher	1242, 0.235, South
7	CEMEX	515 MITCHELL CANYON	LUST, AST, CERS HAZ WASTE, SWEEPS UST, CERS TANKS,	Higher	1404, 0.266, SSW
8	KAISER SAND & GRAVEL	2484 PINE HOLLOW RD	LUST, HIST CORTESE, CERS	Lower	2433, 0.461, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls

Federal ERNS list

ERNS Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST Leaking Underground Storage Tanks on Indian Land
CPS-SLIC Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
UST Active UST Facilities
AST Aboveground Petroleum Storage Tank Facilities
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP Voluntary Cleanup Program Properties
INDIAN VCP Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT Waste Management Unit Database
SWRCY Recycler Database
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory

IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
CERS HAZ WASTE ---------- CERS HAZ WASTE
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST ---------- SWEEPS UST Listing
HIST UST ---------- Hazardous Substance Storage Container Database
CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks
CA FID UST ---------- Facility Inventory Database

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CHMIRS ---------- California Hazardous Material Incident Report System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data

COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
CONTRA COSTA CO. SITE LIST	Site List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***7***	***15***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 09/09/2019
Status: Completed - Case Closed
Facility Id: 07-0475
Facility Status: Case Closed
Global Id: T0601300439
date9: 1/15/1997

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***8***	***54***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 09/09/2019
Status: Completed - Case Closed
Facility Id: 07-0595

Facility Status: Case Closed
Global Id: T0601300548
date9: 3/26/1997

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported EPA ID:: CAC003037185	5849 MITCHELL CANYON	NE 0 - 1/8 (0.086 mi.)	1	9
ZACK & KIKI TURNIN EPA ID:: CAC002994440	1205 AMARANTH DR	NNW 1/8 - 1/4 (0.200 mi.)	A2	10
Not reported EPA ID:: CAC003018221	1211 AMARANTH WAY	NNW 1/8 - 1/4 (0.216 mi.)	A3	11
MICHAEL SIBBITT EPA ID:: CAC002967480	890 COACHMAN PLACE	SE 1/8 - 1/4 (0.218 mi.)	4	12
Not reported EPA ID:: CAC003033922	1215 AMARANTH WAY	NNW 1/8 - 1/4 (0.225 mi.)	5	13

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX Reg Id: 07-0475	***515 MITCHELL CANYON***	***SSW 1/4 - 1/2 (0.266 mi.)***	***7***	***15***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SAND & GRAVEL Reg Id: 07-0595	***2484 PINE HOLLOW RD***	***NW 1/4 - 1/2 (0.461 mi.)***	***8***	***54***

EXECUTIVE SUMMARY

MINES: A listing of mine site locations from the Office of Mine Reclamation.

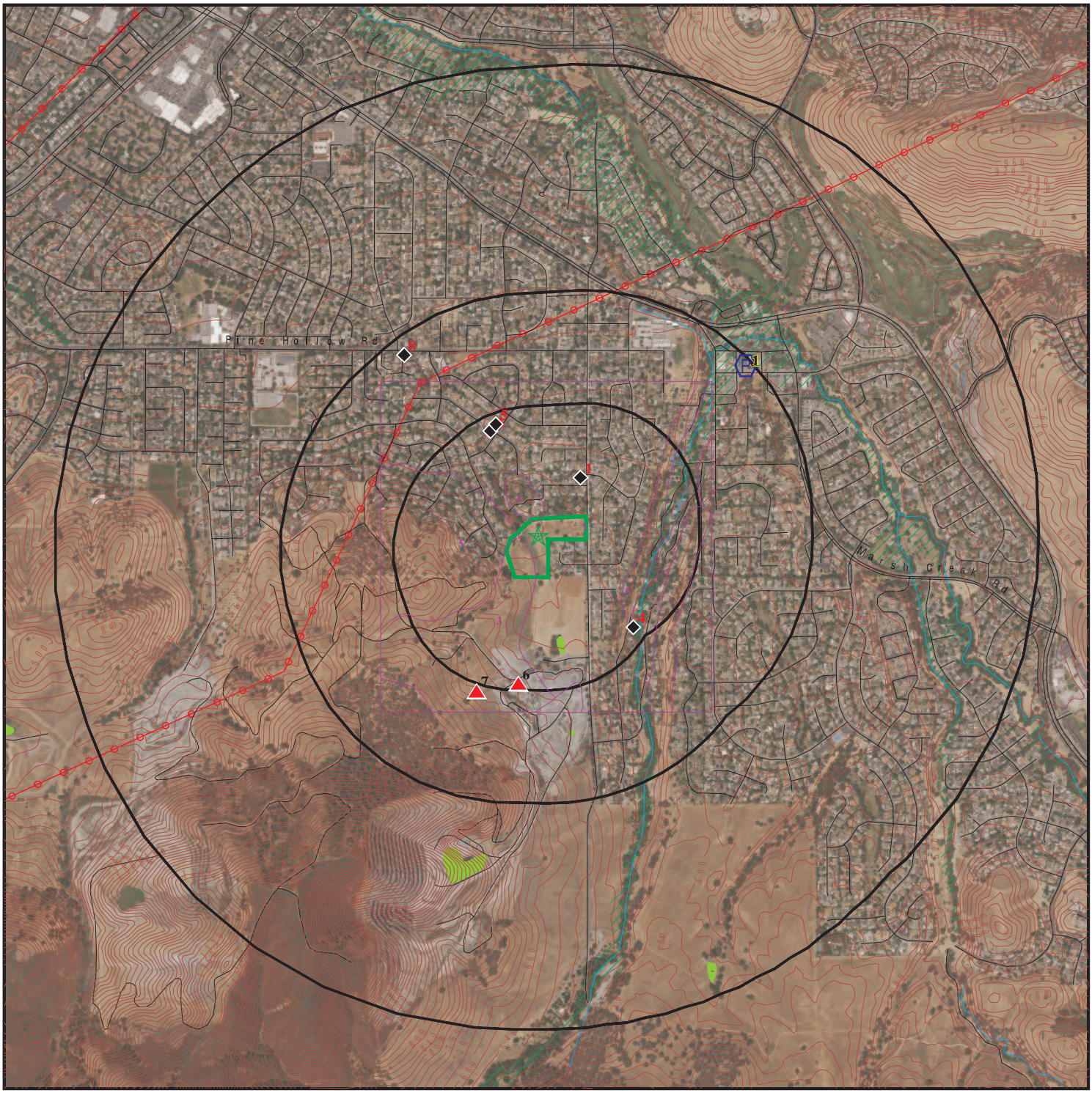
A review of the MINES list, as provided by EDR, and dated 09/09/2019 has revealed that there is 1 MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CEMEX CLAYTON QUARRY	515 MITCHELL CANYON	S 1/8 - 1/4 (0.235 mi.)	6	15

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5957509.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

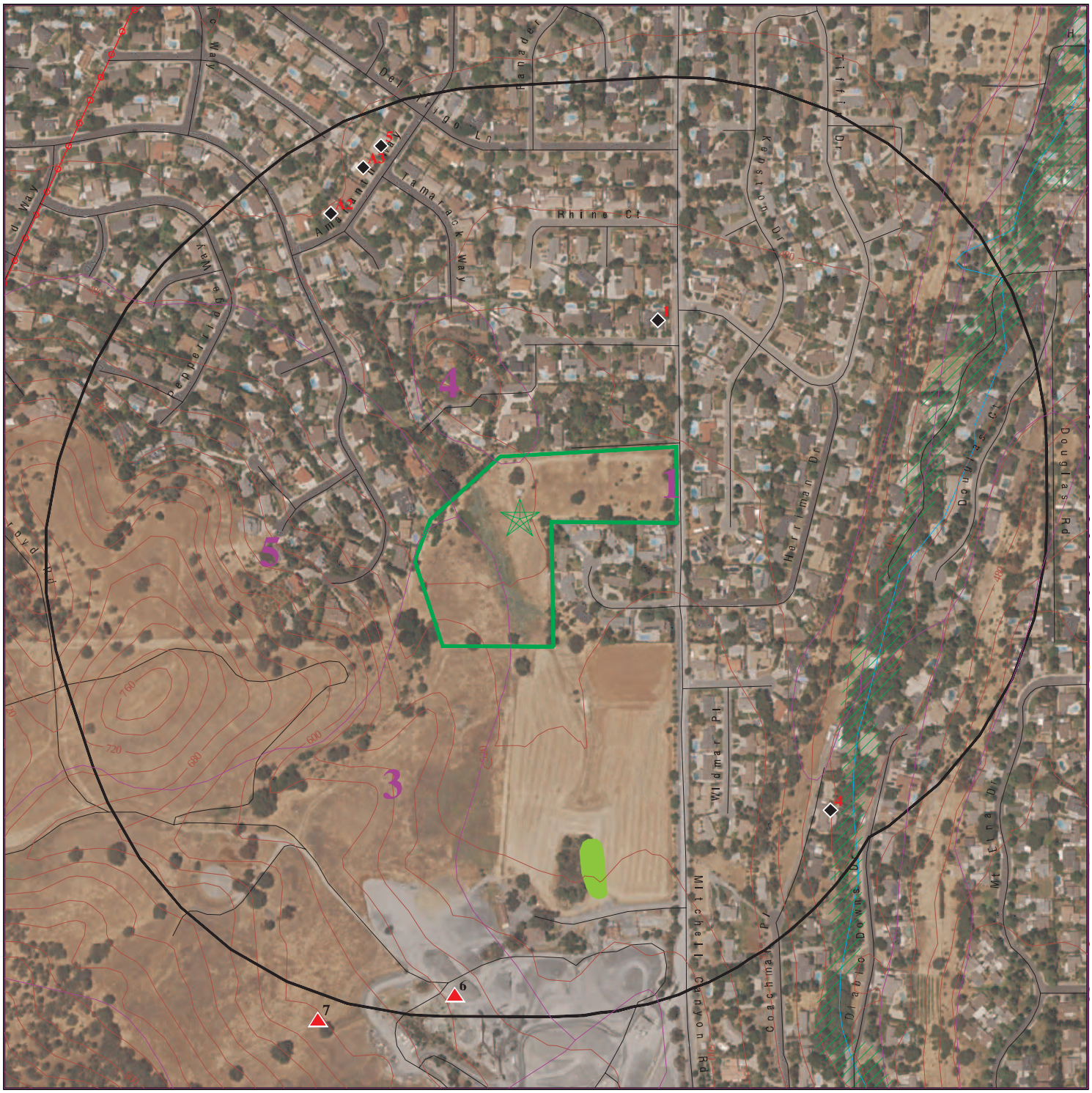
N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
		INQUIRY #:	5957509.2s
LAT/LONG:	37.935244 / 121.94392	DATE:	February 03, 2020 1:26 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5957509.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
		INQUIRY #:	5957509.2s
LAT/LONG:	37.935244 / 121.94392	DATE:	February 03, 2020 1:29 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	4	NR	NR	NR	5
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	1	NR	NR	NR	1
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
CONTRA COSTA CO. SITE LIST	0.250		0	0	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	1	5	4	0	0	10

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NE
< 1/8
0.086 mi.
454 ft.

5849 MITCHELL CANYON CT
CLAYTON, CA 94517

RCRA NonGen / NLR **1025856827**
CAC003037185

Relative:
Lower

Actual:
490 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-10-04 00:00:00.0
Facility name:	Not reported
Facility address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517-1334
EPA ID:	CAC003037185
Contact:	TERRI HIGHSMITH
Contact address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517-1334
Contact country:	Not reported
Contact telephone:	213-399-9292
Contact email:	HAYWARD.RECEPTIONIST@SYNERGYCOMPANIES.OR
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	TERRI HIGHSMITH
Owner/operator address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	213-399-9292
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	TERRI HIGHSMITH
Owner/operator address:	5849 MITCHELL CANYON CT CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	213-399-9292
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Not reported
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

(Continued) **1025856827**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

A2 **ZACK & KIKI TURNIN** **RCRA NonGen / NLR** **1024774518**
NNW **1205 AMARANTH DR** **CAC002994440**
1/8-1/4 **CONCORD, CA 94521**
0.200 mi.
1057 ft. **Site 1 of 2 in cluster A**

Relative:
Lower

Actual:
463 ft.

RCRA NonGen / NLR:

Date form received by agency:	2018-12-27 00:00:00.0
Facility name:	ZACK & KIKI TURNIN
Facility address:	1205 AMARANTH DR CONCORD, CA 94521
EPA ID:	CAC002994440
Contact:	ZACK & KIKI TURNIN
Contact address:	1205 AMARANTH DR CONCORD, CA 94521
Contact country:	Not reported
Contact telephone:	925-914-1336
Contact email:	ELIZABETH.GARCIA@SYNERGYCOMPANIES.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ZACK & KIKI TURNIN
Owner/operator address:	1205 AMARANTH DR CONCORD, CA 94521
Owner/operator country:	Not reported
Owner/operator telephone:	925-914-1336
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

ZACK & KIKI TURNIN (Continued) **1024774518**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Violation Status: No violations found

A3 **RCRA NonGen / NLR** **1025838625**
NNW **1211 AMARANTH WAY** **CAC003018221**
1/8-1/4 **CONCORD, CA 94521**
0.216 mi.
1141 ft. **Site 2 of 2 in cluster A**

Relative:
Lower

Actual:
464 ft.

RCRA NonGen / NLR:
- Date form received by agency: 2019-06-05 00:00:00.0
- Facility name: Not reported
- Facility address: 1211 AMARANTH WAY CONCORD, CA 94521
- EPA ID: CAC003018221
- Contact: KENNETH PAARDEKOOPER
- Contact address: 1211 AMARANTH WAY CONCORD, CA 94521
- Contact country: Not reported
- Contact telephone: 925-490-3854
- Contact email: MELISA@ENV-REM.COM
- EPA Region: 09
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: KENNETH PAARDEKOOPER
- Owner/operator address: 1211 AMARANTH WAY CONCORD, CA 94521
- Owner/operator country: Not reported
- Owner/operator telephone: 925-490-3854
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Other
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: KENNETH PAARDEKOOPER
- Owner/operator address: 1211 AMARANTH WAY CONCORD, CA 94521

(Continued) **1025838625**

Owner/operator country: Not reported
Owner/operator telephone: 925-490-3854
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

---

4 **MICHAEL SIBBITT** **RCRA NonGen / NLR** **1024747703**
SE **890 COACHMAN PLACE** **CAC002967480**
1/8-1/4 **CLAYTON, CA 94517**
0.218 mi.
1150 ft.

Relative:
Lower

Actual:
462 ft.

RCRA NonGen / NLR:
Date form received by agency: 2018-06-20 00:00:00.0
Facility name: MICHAEL SIBBITT
Facility address: 890 COACHMAN PLACE
CLAYTON, CA 94517
EPA ID: CAC002967480
Contact: MICHAEL SIBBITT
Contact address: 890 COACHMAN PLACE
CLAYTON, CA 94517
Contact country: Not reported
Contact telephone: 925-323-8667
Contact email: NICOLE@ENV-REM.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MICHAEL SIBBITT
Owner/operator address: 890 COACHMAN PLACE
CLAYTON, CA 94517
Owner/operator country: Not reported
Owner/operator telephone: 925-323-8667
Owner/operator email: Not reported

MICHAEL SIBBITT (Continued) **1024747703**

Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	MICHAEL SIBBITT
Owner/operator address:	890 COACHMAN PLACE CLAYTON, CA 94517
Owner/operator country:	Not reported
Owner/operator telephone:	925-323-8667
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

5 **RCRA NonGen / NLR** **1025853705**
NNW **1215 AMARANTH WAY** **CAC003033922**
1/8-1/4 **CONCORD, CA 94521**
0.225 mi.
1187 ft.

Relative:
Lower

Actual:
465 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-09-13 00:00:00.0
Facility name:	Not reported
Facility address:	1215 AMARANTH WAY CONCORD, CA 94521
EPA ID:	CAC003033922
Contact:	AMY CESARIN
Contact address:	1215 AMARANTH WAY CONCORD, CA 94521
Contact country:	Not reported
Contact telephone:	650-796-2189
Contact email:	SHACARRAHENDERSON@ALLIANCE-ENVIRO.COM
EPA Region:	09

(Continued) **1025853705**

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: AMY CESARIN
Owner/operator address: 1215 AMARANTH WAY
CONCORD, CA 94521
Owner/operator country: Not reported
Owner/operator telephone: 650-796-2189
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AMY CESARIN
Owner/operator address: 1215 AMARANTH WAY
CONCORD, CA 94521
Owner/operator country: Not reported
Owner/operator telephone: 650-796-2189
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Not reported
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

6
South
1/8-1/4
0.235 mi.
1242 ft.

CEMEX CLAYTON QUARRY
515 MITCHELL CANYON ROAD
, CA

MINES **S117661278**
N/A

Relative:
Higher

Actual:
595 ft.

MINES:

Name:	CEMEX CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CA
Latitude:	37.930556
Longitude:	-121.944722
Lead Agency identification code:	7
Lead Agency name:	County of Contra Costa
Year of the operator supplied annual report:	2017
Type of report submitted by operator:	2
Number of acres disturbed by the mine:	130
Status of mining operation:	ACTIVE
Status of mine reclamation:	RECLAMATION IN PROGRESS
Mine operator:	CEMEX CONSTRUCTION MATERIALS PACIFIC
Operator Address:	1764 SKYWAY
Operator City, State, Zip:	CHICO, CA 95928
Operator County:	Not reported
Mine owner:	CEMEX
Owner Address:	5180 GOLDEN FOOTHILL PARKWAY, SUITE 220
Owner City, State, Zip:	EL DORADO HILLS, CA 95762
Owner County:	Not reported
Reclamation plan identification number:	Not reported
Primary product produced by the mine:	SAND AND GRAVEL
Other products produced by the mine:	Not reported
Type of mining utilized by mine:	PLANT OR MILL,QUARRY
Conditional use permit identification number:	LUP2054-81
Number of acres permitted for mining disturbance:	437
Total amount of funds posted by the mine for reclamation:	4730408
Financial Assurance Cost Estimate for reclamation:	5645447

7
SSW
1/4-1/2
0.266 mi.
1404 ft.

CEMEX
515 MITCHELL CANYON RD
CLAYTON, CA 94517

LUST **S105023307**
AST **N/A**
CERS HAZ WASTE
SWEEPS UST
CERS TANKS
EMI
HIST CORTESE
NPDES
CONTRA COSTA CO. SITE LIST
CIWQS
CERS

Relative:
Higher

Actual:
643 ft.

LUST:

Name:	RMC LONESTAR
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300439
Global Id:	T0601300439
Latitude:	37.932159
Longitude:	-121.940987
Status:	Completed - Case Closed
Status Date:	01/15/1997

CEMEX (Continued) **S105023307**

Case Worker: KEB
RB Case Number: 07-0475
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: 11077
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0601300439
Contact Type: Regional Board Caseworker
Contact Name: KEVIN BROWN
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: kebrown@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300439
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Stopped

Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Reported

Global Id: T0601300439
Action Type: ENFORCEMENT
Date: 01/14/1996
Action: 13267 Requirement

Global Id: T0601300439
Action Type: Other
Date: 06/27/1990
Action: Leak Discovery

LUST:
Global Id: T0601300439
Status: Open - Case Begin Date
Status Date: 06/27/1990

Global Id: T0601300439
Status: Open - Site Assessment
Status Date: 05/10/1994

CEMEX (Continued) **S105023307**

Global Id: T0601300439
Status: Completed - Case Closed
Status Date: 01/15/1997

LUST REG 2:
Region: 2
Facility Id: 07-0475
Facility Status: Case Closed
Case Number: 11077
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 5/10/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AST:
Name: CEMEX CONSTRUCTION MATERIALS PACIFIC LLC
Address: 515 MITCHELL CANYON RD
City/Zip: CLAYTON,
Certified Unified Program Agencies: Contra Costa
Owner: Not reported
Total Gallons: 11,500
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

Name: CEMEX
Address: 515 MITCHELL CANYON RD

CEMEX (Continued) **S105023307**

City/Zip:	CLAYTON,94517
Certified Unified Program Agencies:	Not reported
Owner:	CEMEX Construction Materials Pacific, LLC
Total Gallons:	Not reported
CERSID:	10005676
Facility ID:	07-000-711077
Business Name:	CEMEX Construction Materials Pacific, LLC
Phone:	925-672-4900
Fax:	925-672-1845
Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Mailing Address City:	El Dorado Hills
Mailing Address State:	CA
Mailing Address Zip Code:	95762
Operator Name:	CEMEX Construction Materials Pacific, LLC
Operator Phone:	925-672-4900
Owner Phone:	916-941-2800
Owner Mail Address:	5180 Golden Foothill Parkway, Suite 200
Owner State:	CA
Owner Zip Code:	95762
Owner Country:	United States
Property Owner Name:	CEMEX Construction Materials Pacific, LLC
Property Owner Phone:	916-941-2800
Property Owner Mailing Address:	5180 Golden Foothill Parkway, Suite 200
Property Owner City:	El Dorado Hills
Property Owner Stat :	CA
Property Owner Zip Code:	95762
Property Owner Country:	United States
EPAID:	CAL000317868

CERS HAZ WASTE:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	10005676
CERS Description:	Hazardous Waste Generator

SWEEPS UST:

Name:	RMC LONE STAR CLAYTON PLANT
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Status:	Not reported
Comp Number:	11077
Number:	Not reported
Board Of Equalization:	44-002167
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-011077-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL

CEMEX (Continued) **S105023307**

Number Of Tanks: 3

Name: RMC LONE STAR CLAYTON PLANT
Address: 515 MITCHELL CANYON RD
City: CLAYTON
Status: Not reported
Comp Number: 11077
Number: Not reported
Board Of Equalization: 44-002167
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-011077-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Name: RMC LONE STAR CLAYTON PLANT
Address: 515 MITCHELL CANYON RD
City: CLAYTON
Status: Not reported
Comp Number: 11077
Number: Not reported
Board Of Equalization: 44-002167
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-011077-000003
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

CERS TANKS:
Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 103985
CERS ID: 10005676
CERS Description: Aboveground Petroleum Storage

EMI:
Name: RMC PACIFIC MATERIALS INC, A D
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 1999
County Code: 7

CEMEX (Continued) **S105023307**

Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1442
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2000
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1442
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2001
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1442
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD

CEMEX (Continued) **S105023307**

City,State,Zip:	CLAYTON, CA 94517
Year:	2002
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2003
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	RMC PACIFIC MATERIALS INC, A D
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2004
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.09
Reactive Organic Gases Tons/Yr:	0.0794526
Carbon Monoxide Emissions Tons/Yr:	0.176
NOX - Oxides of Nitrogen Tons/Yr:	0.807
SOX - Oxides of Sulphur Tons/Yr:	0.013
Particulate Matter Tons/Yr:	22.963
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11.3425397

CEMEX (Continued) **S105023307**

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2005
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.028
Reactive Organic Gases Tons/Yr:	.0275772
Carbon Monoxide Emissions Tons/Yr:	.005
NOX - Oxides of Nitrogen Tons/Yr:	.021
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	26.619
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.1166714

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2006
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2007
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.097
Reactive Organic Gases Tons/Yr:	.0853095
Carbon Monoxide Emissions Tons/Yr:	.196
NOX - Oxides of Nitrogen Tons/Yr:	.903
SOX - Oxides of Sulphur Tons/Yr:	.014

CEMEX (Continued) **S105023307**

Particulate Matter Tons/Yr:	26.984
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.3291594
Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2008
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.083
Reactive Organic Gases Tons/Yr:	.0735957
Carbon Monoxide Emissions Tons/Yr:	.153
NOX - Oxides of Nitrogen Tons/Yr:	.704
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	42.965
Part. Matter 10 Micrometers and Smllr Tons/Yr:	20.9233914
Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2009
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.2999999999999995E-2
Reactive Organic Gases Tons/Yr:	6.5228700000000001E-2
Carbon Monoxide Emissions Tons/Yr:	0.14299999999999999
NOX - Oxides of Nitrogen Tons/Yr:	0.65700000000000003
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	22.151155737704901
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.9822554
Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2010
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.5000000000000002E-2
Reactive Organic Gases Tons/Yr:	0.0585351

CEMEX (Continued) **S105023307**

Carbon Monoxide Emissions Tons/Yr:	0.11700000000000001
NOX - Oxides of Nitrogen Tons/Yr:	0.54000000000000004
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	36.822959016393398
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.458028899999999

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2011
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2012
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.0259038
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	20.570060313
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.435

Name:	CEMEX CONSTRUCTION MATERIALS P
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2013
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported

CEMEX (Continued) **S105023307**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026
Reactive Organic Gases Tons/Yr:	0.026
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	21.046
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.523

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2014
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.02634999
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18.464724282
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.232362244

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2015
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA
SIC Code:	1422
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.01834999
Reactive Organic Gases Tons/Yr:	0.01835
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	16.365857189
Part. Matter 10 Micrometers and Smllr Tons/Yr:	8.182928511

Name:	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Year:	2016
County Code:	7
Air Basin:	SF
Facility ID:	828
Air District Name:	BA

CEMEX (Continued) **S105023307**

SIC Code: 1422
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.018349992
Reactive Organic Gases Tons/Yr: 0.018349992
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 15.49322988
Part. Matter 10 Micrometers and Smllr Tons/Yr: 7.746615023

Name: CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Year: 2017
County Code: 7
Air Basin: SF
Facility ID: 828
Air District Name: BA
SIC Code: 1422
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.018349992
Reactive Organic Gases Tons/Yr: 0.018349992
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 14.681012878
Part. Matter 10 Micrometers and Smllr Tons/Yr: 7.34050652

HIST CORTESE:
edr_fname: RMC LONESTAR
edr_fadd1: 515 MITCHELL CNYN
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0475

NPDES:
Name: CEMEX
Address: 515 MITCHELL CANYON RD
City,State,Zip: CLAYTON, CA 94517
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 181849
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 07I009447
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported

CEMEX (Continued) **S105023307**

Effective Date Of Regulatory Measure:	11/23/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2365 Iron Point Road Suite 120
Discharge Name:	CEMEX
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported

CEMEX (Continued) **S105023307**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active

CEMEX (Continued) **S105023307**

Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX
Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

Name:	CEMEX
Address:	515 MITCHELL CANYON RD

CEMEX (Continued) **S105023307**

City,State,Zip:	CLAYTON, CA 94517
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 07I009447
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	11/23/1992
Operator Name:	CEMEX
Operator Address:	2365 Iron Point Road Suite 120
Operator City:	Folsom
Operator State:	California
Operator Zip:	95630

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181849
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CEMEX
Discharge Address:	2365 Iron Point Road Suite 120
Discharge City:	Folsom
Discharge State:	California
Discharge Zip:	95630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported

CEMEX (Continued) **S105023307**

Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181849
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 07I009447
Program Type:	Not reported

CEMEX (Continued) **S105023307**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/23/1992
Status:	Active
Status Date:	11/23/1992
Place Size:	217
Place Size Unit:	Acres
Contact:	Ramon Neilson
Contact Title:	Plant Manager
Contact Phone:	559-471-5581
Contact Phone Ext:	Not reported
Contact Email:	ramon.neilson@cemex.com
Operator Name:	CEMEX
Operator Address:	5180 Golden Foothill Parkway
Operator City:	El Dorado Hills
Operator State:	California
Operator Zip:	95762
Operator Contact:	Bruce Eppler
Operator Contact Title:	Environmental Manager
Operator Contact Phone:	916-941-2920
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bruceh.eppler@cemex.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported

CEMEX (Continued) **S105023307**

Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stormwater to Suisun Bay
Certifier:	Brian Mastin
Certifier Title:	VP OF OPERATIVE SUPPORT
Certification Date:	31-AUG-15
Primary Sic:	1442-Construction Sand and Gravel
Secondary Sic:	1429-Crushed and Broken Stone, NEC
Tertiary Sic:	Not reported

CONTRA COSTA CO. SITE LIST:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	UNDERGROUND STORAGE TANK SITE
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	APSA: 10K - <100K GALLONS
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region:	CONTRA COSTA
Cupa Number:	711077

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City:	CLAYTON
Facility ID:	FA0031598
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	711077

CIWQS:

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Agency:	CEMEX

CEMEX (Continued) **S105023307**

Agency Address:	2365 Iron Point Road Suite 120, Folsom, CA 95630
Place/Project Type:	Industrial - Construction Sand and Gravel
SIC/NAICS:	1442(+)
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 07I009447
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	11/23/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	2
Latitude:	37.9335
Longitude:	-121.94191

CERS:

Name:	RMC LONESTAR
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	215748
CERS ID:	T0601300439
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SUE LOYD - CONTRA COSTA COUNTY
Entity Title:	Not reported
Affiliation Address:	4333 PACHECO BLVD.
Affiliation City:	MARTINEZ
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	CEMEX - CLAYTON QUARRY
Address:	515 MITCHELL CANYON ROAD
City,State,Zip:	CLAYTON, CA 94517-1529
Site ID:	458437

CEMEX (Continued) **S105023307**

CERS ID: 110005972956
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Facility Owner
Entity Name: CEMEX CONSTUCTION MATL PACIFIC LLC
Entity Title: OWNER
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAY
Affiliation City: ELDORADOHILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: LOUIS B SCHIPPER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: ROBERT ALDENHUYSEN
Entity Title: ENVIRONMENTAL CONTACT
Affiliation Address: POBOX 697
Affiliation City: PLEASANTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: CEMEX CONSTRCTN MATL PACIFICNA LLC
Entity Title: Not reported
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City: ELDORADOHILLS
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Bruce Eppler
Entity Title: Not reported
Affiliation Address: 5180 GOLDEN FOOTHILL PARKWAYNA SUITE 200
Affiliation City: ELDORADOHILLS
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: GORDON BROWN
Entity Title: OPERATIONS MANAGER
Affiliation Address: Not reported

CEMEX (Continued) **S105023307**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	RAMON NEILSON
Entity Title:	PLANT MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	CEMEX CONSTRCTN MATL PACIFIC LLC
Entity Title:	OPERATOR
Affiliation Address:	POBOX 697
Affiliation City:	PLEASANTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	RICK HANCOCK
Entity Title:	PLANT MANAGER
Affiliation Address:	5180 GOLDEN FOOTHILL PARKWAY
Affiliation City:	ELDORADOHILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	10005676
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985

CEMEX (Continued) **S105023307**

Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/04/2017.

CEMEX (Continued) **S105023307**

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP

CEMEX (Continued) **S105023307**

Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No

CEMEX (Continued) **S105023307**

Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2018
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-28-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-05-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported

CEMEX (Continued) **S105023307**

Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

CEMEX (Continued) **S105023307**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

CEMEX (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Site Address:	515 MITCHELL CANYON RD
Site City:	CLAYTON
Site Zip:	94517
Enf Action Date:	11-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	103985
Facility Name:	CEMEX
Env Int Type Code:	SMSWIND
Program ID:	254432
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.933500
Longitude:	-121.941910

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Saria Soriano
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA

CEMEX (Continued) **S105023307**

Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported

CEMEX (Continued) **S105023307**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

Name:	CEMEX
Address:	515 MITCHELL CANYON RD
City,State,Zip:	CLAYTON, CA 94517
Site ID:	103985
CERS ID:	254432
CERS Description:	Industrial Facility Storm Water

Violations:

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

CEMEX (Continued) **S105023307**

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 01/04/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	01-05-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes:	Returned to compliance on 01/27/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	103985
Site Name:	CEMEX
Violation Date:	11-28-2016
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General

CEMEX (Continued) **S105023307**

Violation Notes: Returned to compliance on 01/04/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 01-05-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: SWPP does not include the truck wash station located just outside the entrance to the facility. In addition, the site map is out of date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/04/2017. hsc25505(a)(2), hsc 25507
Violation Division: Contra Costa County Health Services Department

CEMEX (Continued) **S105023307**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facilityG s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 11-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 01/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-05-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 103985
Site Name: CEMEX
Violation Date: 02-28-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: No BMPs for truck wash station: off site drainage of sediment material to Mitchell Canyon Road drainage ditch at 515 Mitchell Canyon Road, Clayton
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015

CEMEX (Continued) **S105023307**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2018
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site map is out of date and does not include all of the required elements of IGP section X.E and section X.H.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency

CEMEX (Continued) **S105023307**

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA

CEMEX (Continued) **S105023307**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 01-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 02-05-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

CEMEX (Continued) **S105023307**

Enf Action Program: HW
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 103985
Site Name: CEMEX
Site Address: 515 MITCHELL CANYON RD
Site City: CLAYTON
Site Zip: 94517
Enf Action Date: 11-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 103985
Facility Name: CEMEX
Env Int Type Code: SMSWIND
Program ID: 254432
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.933500
Longitude: -121.941910

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Saria Soriano
Entity Title: Not reported

CEMEX (Continued) **S105023307**

Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Owner/Operator
Entity Name:	CEMEX
Entity Title:	Operator
Affiliation Address:	2365 Iron Point Road Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Identification Signer
Entity Name:	Rosa Fibla Matamoros
Entity Title:	Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CEMEX (Continued) **S105023307**

Affiliation Type Desc:	Document Preparer
Entity Name:	Erin Loza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	2365 Iron Point Road, Suite 120
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95630
Affiliation Phone:	(916) 941-2800
Affiliation Type Desc:	Operator
Entity Name:	Cemex Construction Materials Pacific, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 672-4900

---

8 **KAISER SAND & GRAVEL** **LUST** **1000727398**
NW **2484 PINE HOLLOW RD** **HIST CORTESE** **N/A**
1/4-1/2 **CLAYTON, CA 94517** **CERS**
0.461 mi.
2433 ft.

Relative:
Lower

Actual:
434 ft.

LUST:

Name:	KAISER SAND & GRAVEL
Address:	2484 PINE HOLLOW RD
City,State,Zip:	CLAYTON, CA 94517
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300548
Global Id:	T0601300548
Latitude:	37.9411
Longitude:	-121.94935
Status:	Completed - Case Closed

KAISER SAND & GRAVEL (Continued) **1000727398**

Status Date: 03/26/1997
Case Worker: KEB
RB Case Number: 07-0595
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: 02247
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0601300548
Contact Type: Regional Board Caseworker
Contact Name: KEVIN BROWN
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: kebrown@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300548
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Stopped

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Reported

Global Id: T0601300548
Action Type: ENFORCEMENT
Date: 03/26/1997
Action: Closure/No Further Action Letter

Global Id: T0601300548
Action Type: Other
Date: 11/19/1985
Action: Leak Discovery

LUST:
Global Id: T0601300548
Status: Open - Case Begin Date
Status Date: 11/19/1985

Global Id: T0601300548
Status: Open - Site Assessment

KAISER SAND & GRAVEL (Continued) **1000727398**

Status Date: 08/01/1994

Global Id: T0601300548
Status: Completed - Case Closed
Status Date: 03/26/1997

LUST REG 2:
Region: 2
Facility Id: 07-0595
Facility Status: Case Closed
Case Number: 02247
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/1/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:
edr_fname: KAISER SAND & GRAVEL
edr_fadd1: 2484 PINE HOLLOW
City,State,Zip: CLAYTON, CA 94517
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0595

CERS:
Name: KAISER SAND & GRAVEL
Address: 2484 PINE HOLLOW RD
City,State,Zip: CLAYTON, CA 94517
Site ID: 257971
CERS ID: T0601300548
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEVIN BROWN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400

KAISER SAND & GRAVEL (Continued) **1000727398**

Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/04/2019
Date Data Arrived at EDR: 11/13/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 76

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/11/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 07/02/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 8
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 59

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/15/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 69

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/07/2020
Number of Days to Update: 70
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/21/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/11/2019
Number of Days to Update: 70

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/21/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 58

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/12/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/09/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/08/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 78

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2019
Date Data Arrived at EDR: 10/09/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 72

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/15/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 12/03/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 56
Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/06/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 10/31/2019
Date Data Arrived at EDR: 11/01/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 40

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 09/27/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 62

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 03/29/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/22/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 66

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/08/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 57

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 65

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 65

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/11/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/16/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/18/2019
Number of Days to Update: 90
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/21/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/22/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 10/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 34

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 51

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/05/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/23/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 60

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 43

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 49

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/08/2019
Date Data Arrived at EDR: 10/10/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 62

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/03/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/13/2019
Date Data Arrived at EDR: 11/14/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 70

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 11/05/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 64

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/08/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/22/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/04/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 34

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 57

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 71
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 01/27/2020
Number of Days to Update: 68

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 44

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/21/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 58

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 62

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/30/2019
Date Data Arrived at EDR: 10/30/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 42

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/09/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 61

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 11/05/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 64

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 61

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 52

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 73
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/06/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/23/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/07/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 38
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/23/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/14/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 69
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/16/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 52

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 65

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 10/30/2019
Date Data Arrived at EDR: 11/01/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 68

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/18/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 62

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 64

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/23/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 64

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 51

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/25/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 30

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/04/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 63

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/14/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 83

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 01/30/2020
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/18/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CLAYTON TRUST PROPERTY
MITCHELL CANYON ROAD
CLAYTON, CA 94517

TARGET PROPERTY COORDINATES

Latitude (North):	37.935244 - 37° 56' 6.88''
Longitude (West):	121.94392 - 121° 56' 38.11''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592806.1
UTM Y (Meters):	4198950.5
Elevation:	493 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640430 CLAYTON, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

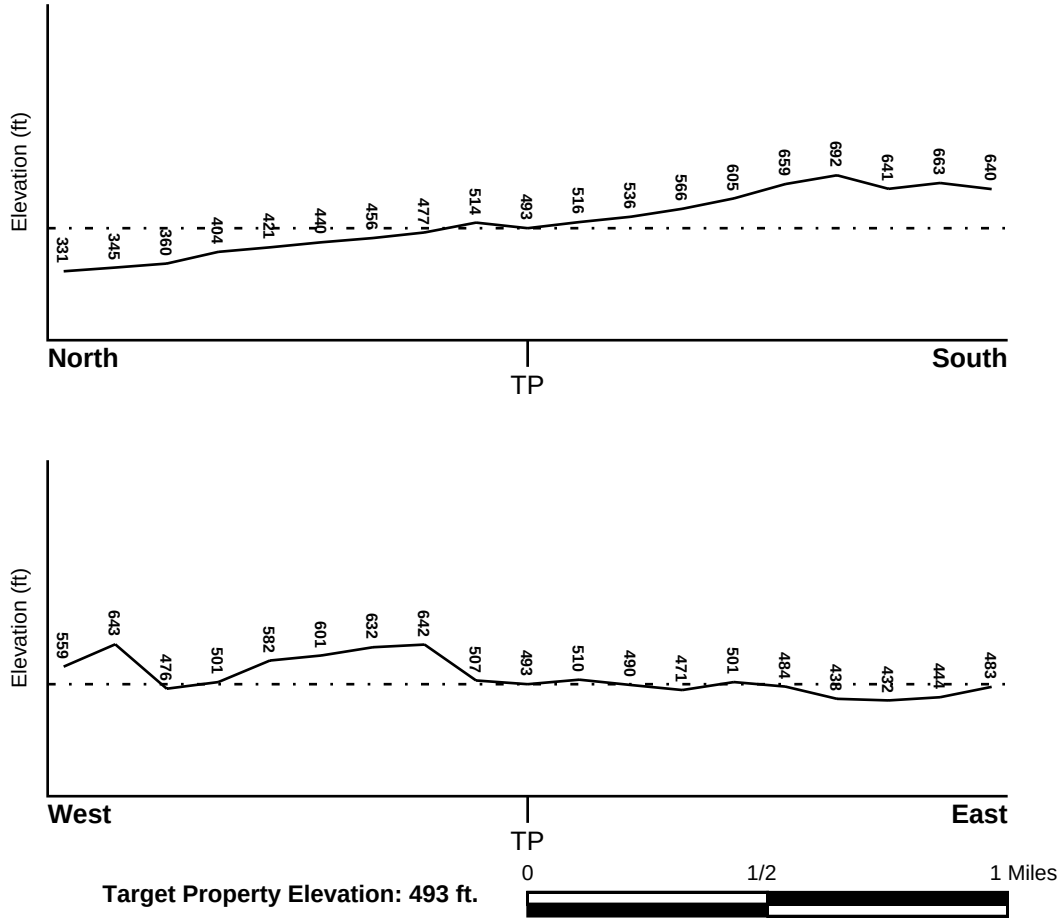
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06013C0312F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06013C0304F	FEMA FIRM Flood data
06013C0308F	FEMA FIRM Flood data
06013C0316F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CLAYTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

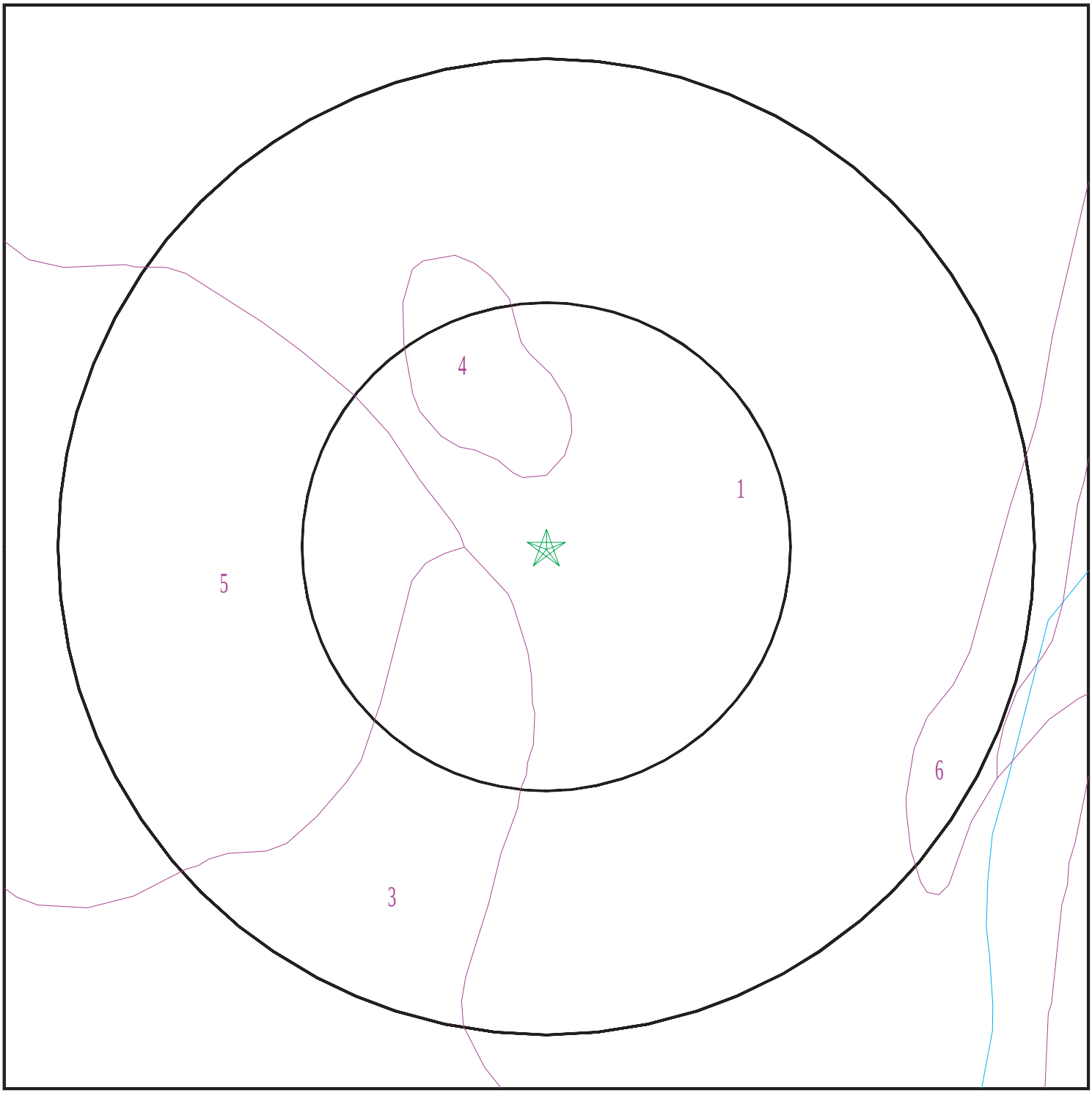
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5957509.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
LAT/LONG:	37.935244 / 121.94392	INQUIRY #:	5957509.2s
		DATE:	February 03, 2020 1:30 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: PERKINS

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: ZAMORA

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1
2	16 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.1

Soil Map ID: 3

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.07 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: LOS OSOS

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: GILROY

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 102 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
2	14 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	29 inches	40 inches	very gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
4	40 inches	44 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: Perkins

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	18 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CA0706053	1/2 - 1 Mile NE

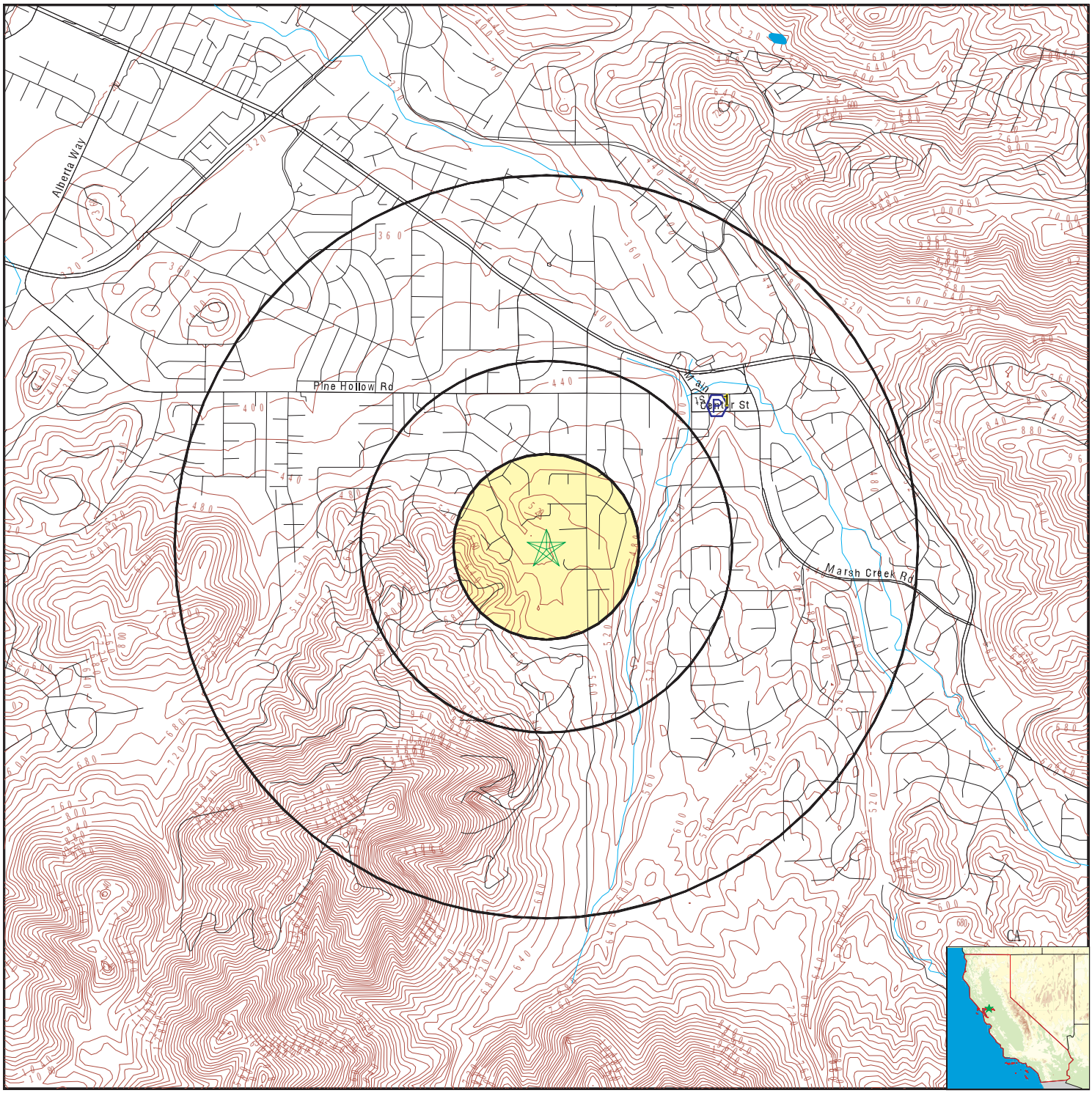
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5957509.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Clayton Trust Property	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	Mitchell Canyon Road Clayton CA 94517	CONTACT:	Diane Becker
		INQUIRY #:	5957509.2s
LAT/LONG:	37.935244 / 121.94392	DATE:	February 03, 2020 1:29 pm

Copyright © 2020 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
1/2 - 1 Mile
Lower | **FRDS PWS** | **CA0706053**

PWS ID:	CA0706053	PWS type:	System Owner/Responsible Party
PWS name:	VERNON PETERSON	PWS address:	Not Reported
PWS city:	CLAYTON	PWS state:	CA
PWS zip:	94517	PWS ID:	CA0706053
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	BROKEN WHEEL	System address:	VERNON PETERSON
System address:	HWY 4 & HILL AVE	System city:	OAKLEY
System state:	CA	System zip:	94561
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	375627	Longitude:	1215604

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94517	6	0

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94517

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix D -

Interview Documentation

No documents have been associated with this appendix.

Appendix E -

Miscellaneous Documents

AdvancedGeo Environmental

VAPOR ENCROACHMENT SCREENING (ASTM E2600-15)
CLAYTON TRUST PROPERTY
APNs 121-090-011-2 and 121-090-016-1
Clayton, California
February 2020

In accordance with ASTM Standard E2600-15 and the Buonicore Area of Concern determination (2011)[i], Advanced GeoEnvironmental, Inc. performed the initial Tier 1 Vapor Encroachment Screening which includes determining the presence or likely presence of volatile organic compounds (VOCs) vapors in the sub-surface of the subject property (SP) caused by the release of vapors from contaminated soil or groundwater either on or near the Target Property within an Area of Concern (AOC) to determine if a potential Vapor Encroachment Condition (VEC) exists. Should sites fall within the AOC, a limited Tier 2 screening will be performed.

TIER 1 SCREENING

(1) Ground Water Flow Direction: Is the groundwater flow direction known?

	No	Proceed to **(1a)**
X	Yes	Proceed to **(1b)** Identify the groundwater flow direction here: **Northeast**

(1a) If groundwater flow direction is **unknown**, the AOC is:

- Non-Petroleum Hydrocarbon Contaminants of Concern (COC): **1,760 feet (1/3-mile)** from the contaminated site boundary to the boundary of the SP.
- Dissolved Petroleum Hydrocarbon COC: **528 feet (1/10-mile)** for from the contaminated site boundary to the boundary of the SP.
- Free Product (Light non-aqueous phase liquids [LNAPL]) COC: **528 feet (1/10-mile)** for from the contaminated site boundary to the boundary of the SP.

Are sites located within the AOC? **Not Applicable**

(1b) If groundwater flow direction is known, the AOC for non-petroleum hydrocarbon COC and dissolved petroleum hydrocarbon or free product (LNAPL) COC is:

- Non-Petroleum Hydrocarbon COC: **1,760 feet (1/3-mile)** in the up-gradient position, **365 feet** in the equi-gradient position, and **100 feet** in the down-gradient position.
- Dissolved Petroleum Hydrocarbon COC: **528 feet (1/10-mile)** in the up-gradient position; **95 feet** in the equi-gradient position, and **30 feet** in the down-gradient position.

- Free Product (LNAPL) COC: **528 feet (1/10-mile)** in the up-gradient position, **165 feet** in the equi-gradient position, and **100 feet** in the down-gradient position.

Are sites located within the AOC?

X	No	Tier 1 screening is complete, and no VEC currently exists, proceed to **CONCLUSIONS**
	Yes	Proceed to **(2)** **Site Name 1, address:** Summary, including known or possible COC **Site Name 2, address:** Summary, including known or possible COC

(2) Subsurface Characteristics

(2a) Is there a hydraulic (e.g., a river) or physical barrier (e.g., clay barrier) between the SP and the suspected contaminated site (or sites)? **Not Applicable**

(2b) Are **non-petroleum hydrocarbon COC** and **dissolved petroleum hydrocarbon** or **free product (LNAPL) COC** known to be in the groundwater beneath the subject property. **Not Applicable**

TIER 2 SCREENING

If the Tier 1 screening indicates that a VEC exists, the Tier 2 non-invasive screening can be used to refine screening. Tier 2 applies numeric screening criteria to existing or newly collected soil, soil gas and/or groundwater monitoring results to provide greater certainty to whether or not a VEC exists. The Tier 2 screening involve a Plume Test and Critical Distance Determination. **The Critical Distance Determination requires that the edge of the plume be known**. The Critical Distance is the lineal distance in any direction between the nearest edge of the contaminated plume and the nearest SP boundary.

A Tier 2 Screening was not warranted for the subject property.

CONCLUSIONS

(1) Conclusions: Impact on Subject Property

A VEC exists

X A VEC does not exist

[i] Buonicore, A.J., 2011, Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources, Paper #2011-A-301-AWMA.

Appendix F -

Qualifications of the Environmental Professionals

DIANE M. BECKER

POSITION
SENIOR GEOLOGIST

EDUCATION
B.A. Geological Sciences - Whittier College (California)

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS
California Professional Geologist No. 7469

DUTIES
Ms. Becker is responsible for the preparation of various correction action plans and the implementation of various investigative and remediation projects. She has extensive experience in designing remediation systems, including soil vapor extraction and groundwater extraction. Ms. Becker also has extensive experience researching and preparing Phase I Environmental Assessments throughout the western United States.

EMPLOYMENT HISTORY

2003 - Present:	Senior Geologist Advanced GeoEnvironmental, Inc.
1998 - 2003:	Staff Geologist Advanced GeoEnvironmental, Inc.
1987 - 1998:	Staff Geologist Clayton Group Services
1995 - 1997:	Intern Hydrogeologist Orange County Water District

TIMOTHY J. CUELLAR

POSITION SENIOR GEOLOGIST

EDUCATION B.Sc. Geology - California State University, Fresno, 1993

DUTIES Mr. Cuellar is responsible for the management, design and implementation for various investigative and remediation projects. He has extensive experience in designing remediation systems for installation throughout California and is considered an expert in ground water extraction and soil vapor extraction techniques and implementation. Mr. Cuellar also has extensive experience in site assessment, underground storage tank investigations, infrastructure studies and landfill monitoring and remediation.

EMPLOYMENT HISTORY

1999 - present: Project Geologist
Advanced GeoEnvironmental, Inc.

1995 - 1999: Senior Staff Geologist
Advanced GeoEnvironmental, Inc., Stockton, California

1993 - 1995: Project Geologist
RM Associates, Fresno, California

1992 – 1993: Staff Geologist
John M. Minney, Geotechnical Engineering, Madera, California

CITY OF CLAYTON
Founded 1857 . . . Incorporated 1964

20-810

FILED
SEP 21 2020
DEBORAH COOPER, COUNTY CLERK
CONTRA COSTA COUNTY
BY Lisa Spence DEPUTY

NOTICE OF INTENT TO CONSIDER ADOPTION OF A MITIGATED NEGATIVE DECLARATION AND NOTICE OF PUBLIC HEARING

Project Name: **Diablo Meadows Residential Subdivision**

Application Nos.: **Planned Development Project Initial Study/Mitigated Negative Declaration ENV-01-2020; Rezone ZOA-02-2020; Tentative Subdivision Map MAP-01-2020; Development Plan Permit DP-01-2020; and Tree Removal Permit TRP-09-2020.**

Date: **September 11, 2020**

Notice is hereby given that the City of Clayton finds that no significant effect on the environment, as prescribed by the California Environmental Quality Act of 1970 (CEQA), as amended, will occur for the following proposed project:

1. Project Proponent: Kerri Watt on behalf of DeNova Homes, Inc., 1500 Willow Pass Court, Concord, CA 94520

2. Project Description: DeNova Homes, Inc. proposes to construct 18 single-family residential units and three accessory dwelling units (ADUs) on a vacant 8.68-acre parcel. The requested approvals include: 1) environmental study/mitigated negative declaration; 2) a zoning amendment to rezone the site to Planned Development (PD); 3) a vesting tentative map to subdivide the property; 4) development plan review of landscape, site, and architectural plans; and 5) tree removal.

3. Project Location: The project site is located west of Mitchell Canyon Road and north/west of Herriman Court, Clayton, CA 94517. Assessor's Parcel Nos. 121-090-011-2 and 121-090-016-1.

4. Findings: The Initial Study prepared for the project identified potentially significant impacts in the following categories: biological resources, cultural resources, geology and soils, hazards and hazardous materials, and noise. Mitigation measures have been identified to reduce each of the potentially significant impacts to a less-than-significant level.

All other impacts were found to be less than significant: aesthetics, agriculture resources, air quality, energy, geology and soils, greenhouse gas emissions, hydrology and water quality, land use and planning, mineral resources, population and housing, public services, recreation, transportation/circulation, utilities and service systems, wildfire, tribal cultural resources, and mandatory findings of significance. Based on the Initial Study, the Community Development Director has determined that preparation of a Mitigated Negative Declaration is appropriate for the project described above.

HAZARDOUS MATERIALS AND HAZARDOUS WASTE SITES: The project site is not identified on any list of hazardous materials sites compiled pursuant to California Government Code Section 65962.5.

5. Initial Study: The Initial Study/Mitigated Negative Declaration (IS/MND) and project plans may be reviewed during normal business hours at the City of Clayton Community Development Department, located at 6000 Heritage Trail, Clayton, CA 94517, or on the City's website at: https://ci.clayton.ca.us/community-development/planning/environmental-review/. Background and reference materials related to the IS/MND can be reviewed upon request to the City of Clayton Community Development Department.

6. Public Review: The 20-day public review and comment period for this environmental determination will begin on Wednesday, September 15, 2020. Anyone who wishes to comment on the findings of this environmental analysis must submit these comments in writing to Christine Gregory, AICP, Planner at the address noted above, by email to cgregory@grounddc.com or by fax to 925-672-4917. **Comments must be received by 5:00 p.m. on October 5, 2020.**

7. Notice of Intent to Adopt a Mitigated Negative Declaration and Public Hearing: Notice is hereby given that the Clayton Planning Commission is tentatively scheduled to consider a recommendation on the project to the City Council at a **Public Hearing scheduled for October 27, 2020 at 7:00 p.m.,** held via a virtual meeting for which the link will be provided on the official Planning Commission meeting agenda.

This proposed Mitigated Negative Declaration does not signify approval or disapproval of this project by City decision-making bodies. The Planning Commission and City Council will consider the proposed Mitigated Negative Declaration together with any comments received during the public review process to determine whether the project will have a significant impact on the environment.

ON BEHALF OF

Matthew Feske
Community Development Director

NOTICES OF COMPLETION, NOTICES OF DETERMINATION, NOTICES OF AVAILABILITY AND NOTICES OF EXEMPTION

AFFIDAVIT OF POSTING

Pursuant to Public Resources Code e §21152C, the following Notice of Completion, Notice of Determination, Notice of Availability an/or Notice of Exemption, was posted on September 21, 2020 at the:

CONTRA COSTA COUNTY CLERK'S OFFICE
555 ESCOBAR STREET , MARTINEZ, CA 94553

NOTICE OF INTENT

for

DIABLO MEADOWS RESIDENTIAL SUBDIVISION

I certify under penalty of perjury that the foregoing is true and correct.

DATED: September 21, 2020

RETURNED TO: CITY OF CLAYTON

DATED: NOV 0 5 2020

DEBORAH COOPER , COUNTY CLERK

By: Josia Spencer

Deputy

State of California - Department of Fish and Wildlife

2020 ENVIRONMENTAL FILING FEE CASH RECEIPT

DFW 753.5a (REV. 12/01/19) Previously DFG 753.5a

Print | StartOver | Finalize&Email

RECEIPT NUMBER:
07-09/21/2020-255

STATE CLEARINGHOUSE NUMBER *(If applicable)*

SEE INSTRUCTIONS ON REVERSE. TYPE OR PRINT CLEARLY.

LEAD AGENCY	LEADAGENCY EMAIL	DATE
CITY OF CLAYTON		09/21/2020

COUNTY/STATE AGENCY OF FILING	DOCUMENT NUMBER
CONTRA COSTA COUNTY	2020-00810

PROJECT TITLE

DIABLO MEADOWS RESIDENTIAL SUBDIVISION

PROJECT APPLICANT NAME	PROJECT APPLICANT EMAIL	PHONE NUMBER
DENOVA HOMES, INC		(925) -

PROJECT APPLICANT ADDRESS	CITY	STATE	ZIP CODE
1500 WILLOW PASS CT	CONCORD	CA	94520

PROJECT APPLICANT *(Check appropriate box)*

☒ Local Public Agency ☐ School District ☐ Other Special District ☐ State Agency ☐ Private Entity

CHECK APPLICABLE FEES:

☐ Environmental Impact Report (EIR)	$ 3,343.25	$
☐ Mitigated/Negative Declaration (MND)(ND)	$ 2,406.75	$
☐ Certified Regulatory Program (CRP) document - payment due directly to CDFW	$ 1,136.50	$
☐ Exempt from fee		
☐ Notice of Exemption (attach)		
☐ CDFW No Effect Determination (attach)		
☐ Fee previously paid (attach previously issued cash receipt copy)		
☐ Water Right Application or Petition Fee (State Water Resources Control Board only)	$ 850.00	$
☐ County documentary handling fee	$ 50.00	$
☒ Other NOTICE OF INTENT		$

PAYMENT METHOD:

☐ Cash ☐ Credit ☐ Check ☐ Other **TOTAL RECEIVED** $ 0.00

SIGNATURE	AGENCY OF FILING PRINTED NAME AND TITLE
X Spence Ispence	Spence Ispence Deputy Clerk

ORIGINAL - PROJECT APPLICANT | COPY - CDFW/ASB | COPY - LEAD AGENCY | COPY - COUNTY CLERK | DFW 753.5a (Rev. 12012019)

NOTICE OF PUBLIC HEARING
PLANNING COMMISSION REGULAR MEETING
CITY OF CLAYTON

PUBLIC HEARING TO REVIEW AND CONSIDER THE EIGHTEEN-LOT RESIDENTIAL PLANNED DEVELOPMENT PROJECT
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION (ENV-01-2020);
ZONING MAP AMENDMENT (ZOA-02-2020);
VESTING TENTATIVE RESIDENTIAL SUBDIVISION MAP (MAP-01-2020);
DEVELOPMENT PLAN PERMIT (DP-01-2020); AND
TREE REMOVAL PERMIT (TRP-09-2020).
DENOVA HOMES, INC.
WEST OF MITCHELL CANYON ROAD AND NORTH/WEST OF HERRIMAN COURT
APNs: 121-090-011 AND 121-090-016

NOTICE IS HEREBY GIVEN that the Clayton Planning Commission will hold a public hearing at its meeting of Tuesday, December 8, 2020. The Planning Commission meeting begins at 7:00 p.m. Pursuant to Executive Order N-29-20, this meeting may be conducted by teleconference and there will be no in-person public access to the meeting location.

The purpose of the hearing is to consider approvals that include: 1) Initial Study/Mitigated Negative Declaration; 2) Zoning Map Amendment; 3) Development Plan; 4) Vesting Tentative Map; and 5) Tree Removal Permit.

ENVIRONMENTAL DETERMINATION: An Initial Study has been prepared pursuant to the guidelines of the California Environmental Quality Act and a Mitigated Negative Declaration has been prepared with Mitigation Measures that will reduce the potential adverse impacts of the development to Less Than Significant.

REVIEW OF INFORMATION: The application and related documents are available for public review via the city website and via email by contacting the project planner Christine Gregory, AICP, Planner at cgregory@grounddc.com. In addition, City staff is available to answer questions by telephone at 925-673-7343 or email at mfeske@ci.clayton.ca.us between the hours of 9:00 a.m. And 5:00 p.m., Monday through Friday.

COMMENT ON THIS APPLICATION: Response to this notice may be made as follows:

- Submit your public comment to the Planning Commission electronically. Material may be emailed to mfeske@ci.clayton.ca.us. Transmittal prior to the start of the meeting is required. Any correspondence received during or after the meeting will be distributed to the Planning Commission and retained for the official record.
- Written comment can be made to the Planning Commission by email at mfeske@ci.clayton.ca.us or letter to:

Matthew Feske
Community Development Director
City of Clayton
6000 Heritage Trail
Clayton, CA 94517

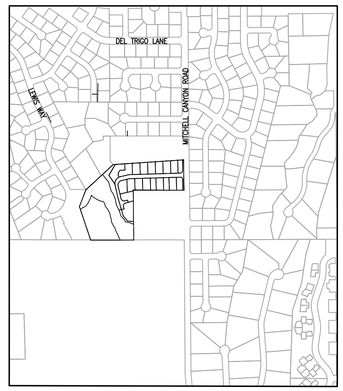
Any challenge of the proposal in court may be limited to raising only those issues raised at the public hearing described in this notice or in written correspondence delivered to the Community Development Director at or prior to the public hearing (Government Code Section 65009(b)(2)).

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

NOTES AND SECTIONS
SCALE: AS SHOWN APRIL, 2020



SITE PLAN
SCALE: 1" = 60'



VICINITY MAP
SCALE: 1"=500'

BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

TITLE REPORT:
FIRST AMERICAN TITLE COMPANY, ORDER NO. 0131-623819ALA
DATED: DECEMBER 13, 2019 AMENDED: JANUARY 27, 2020

GENERAL NOTES

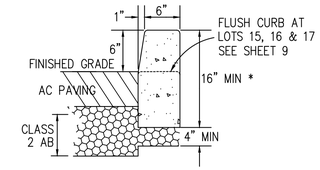
1. OWNER: THE FRED CLAYTON TRUST
   DEVELOPER: DENOVA HOMES, 1500 WILLOW PASS COURT, CONCORD, CA 94520, CONTACT: TRENT SANSON
   CIVIL ENGINEER : MERIDIAN ASSOCIATES, INC., 1300A WILLOW PASS COURT, CONCORD, CA. 94520, CONTACT: HOMAYUN KARIM
   SOILS ENGINEER : STEVENS, FERRONE & BAILEY, 1600 WILLOW PASS COURT, CONCORD, CA 94520, (PROJECT NO. 155-90 DATED: FEBRUARY 28, 2020) CONTACT: KEN FERRONE
2. ASSESSOR'S PARCEL NUMBERS : 121-090-011-2 AND 121-090-016-1
3. EXISTING LAND USE : VACANT
4. PROPOSED LAND USE : SINGLE FAMILY RESIDENTIAL
5. SITE AREA : GROSS AREA FOR ALL PARCELS: 8.68 ACRES±, NET ACREAGE INCLUDED IN PUD: 4.61 ACRES±
6. NUMBER OF LOTS : 18 RESIDENTIAL LOTS & 5 PARCELS
7. GENERAL PLAN : LOW DENSITY RESIDENTIAL (3.1 TO 5.0 UNITS/AC)
8. EXISTING ZONING : R-15
   PROPOSED ZONING: PUD
9. DENSITY (ALLOWED): 3.1 – 5.0 UNITS/AC
   DENSITY PROPOSED: NET DENSITY IN PUD: 3.9 UNITS/ACRE
10. UTILITY PROVIDERS
    WATER : CONTRA COSTA WATER DISTRICT (CCWD)
    GAS & ELECTRIC : PACIFIC GAS & ELECTRIC
    SEWER : CITY OF CONCORD
    TELEPHONE : ATT
    CABLE: COMCAST CABLE
    ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND. ALL STORM DRAINS, SANITARY SEWERS AND WATER MAINS SHALL ADHERE TO THE MINIMUM SIZES SLOPES, AND SPECIFICATIONS OF THE GOVERNING AGENCY'S STANDARDS.
11. TOPOGRAPHY: EXISTING TOPOGRAPHY PROVIDED BY VERTICAL MAPPING RESOURCES AND A FIELD SURVEY BY MERIDIAN ASSOCIATES, INC. DATED AUGUST 8, 2019. CONTOUR INTERVAL IS 1 FOOT.
12. BOUNDARY: BOUNDARY AS SHOWN IS BASED ON RECORD INFORMATION ONLY. FINAL BOUNDARY SHALL BE BASED ON A FIELD SURVEY.
13. STREETS: ALL PROPOSED NEW STREETS ARE PUBLIC
14. FLOOD ZONE: THE SITE IS DESIGNATED AS ZONE X (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FEMA FIRM MAP PANEL 442 OF 725 (06001C0442G) DATED AUGUST 3, 2009.
15. GRADING: GRADES SHOWN HEREON ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.
16. DIMENSIONS: HOUSE FOOTPRINTS, LOT DIMENSIONS AND AREA(S) SHOWN HEREON ARE APPROXIMATE AND SUBJECT TO CHANGE DURING FINAL DESIGN.

LEGEND

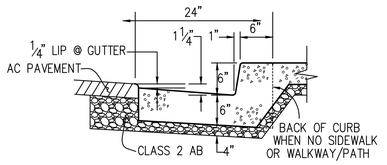
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		CURB AND GUTTER (TYPE AS NOTED)
		CENTERLINE
		UTILITY LINE (TYPE & SIZE AS NOTED)
○	●	MANHOLE
		STORM DRAIN PIPE
□	■	STORM DRAIN INLET
		WATER MAIN
		FIRE HYDRANT
		BLOW OFF
		ELECTROLIER
777	777	CONTOURS
x 777.0	TC 777.70	SPOT ELEVATIONS

ABBREVIATIONS:

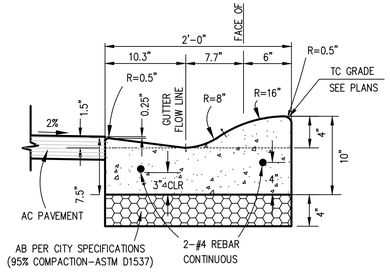
AB	AGGREGATE BASE	JT	JOINT TRENCH
AC	ASPHALT CONCRETE	LP	LOW POINT
CL	CENTER LINE	MH	MANHOLE
CB	CATCH BASIN	PL	PROPERTY LINE
CO	CLEAN OUT	PUE	PUBLIC UTILITY EASEMENT
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
EX	EXISTING	R/W	RIGHT OF WAY
FC	FACE OF CURB	SD	STORM DRAIN
FF	FINISHED FLOOR	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSCO	SANITARY SEWER CLEANOUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	TC	TOP OF CURB
GR	GRATE ELEVATION	TFC	TOP OF FLUSH CURB
HP	HIGH POINT	TYP	TYPICAL
		W	WATER LINE



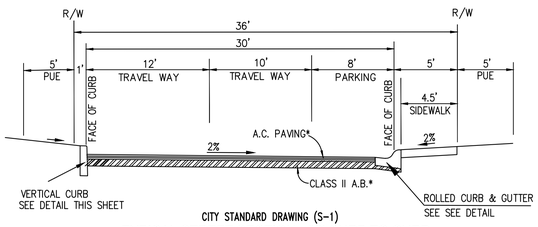
6" VERTICAL CURB & FLUSH CURB
NOT TO SCALE



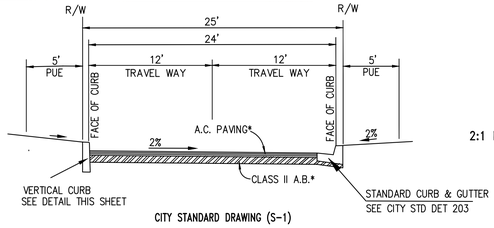
STANDARD C1-1 CURB, GUTTER & WALK
SEE CITY STANDARD PLAN C1-1 FOR DETAILS
NOT TO SCALE



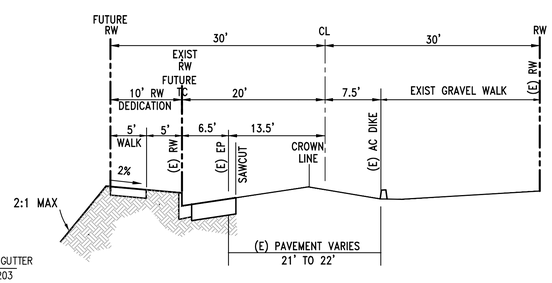
ROLLED CURB AND GUTTER
NOT TO SCALE



CITY STANDARD DRAWING (S-1)
TYPICAL STREET SECTION - 30' CURB TO CURB
NOT TO SCALE



CITY STANDARD DRAWING (S-1)
TYPICAL STREET SECTION - 24' CURB TO CURB (NO PARKING)
NOT TO SCALE



MITCHELL CANYON ROAD TYPICAL SECTION
NOT TO SCALE

SHEET INDEX

SHEET	DESCRIPTION
C-1	NOTES AND STREET SECTIONS
C-2	BOUNDARY AND EXISTING CONDITION
C-3	GRADING AND DRAINAGE PLAN
C-4	UTILITY PLAN
C-5	PRELIMINARY DEVELOPMENT PLAN
C-6	CONCEPTUAL STORM WATER MANAGEMENT PLAN

M:\Jobs\18-16-00\TM\TM C-1 TITLE.dwg Plot Date:7-17-20

DATE: MARCH, 2020
SCALE: AS SHOWN
DRAWN: TJB/YPS
DESIGNED: HK/TB
ENGINEER: JR/YS
MANAGER: HK

NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

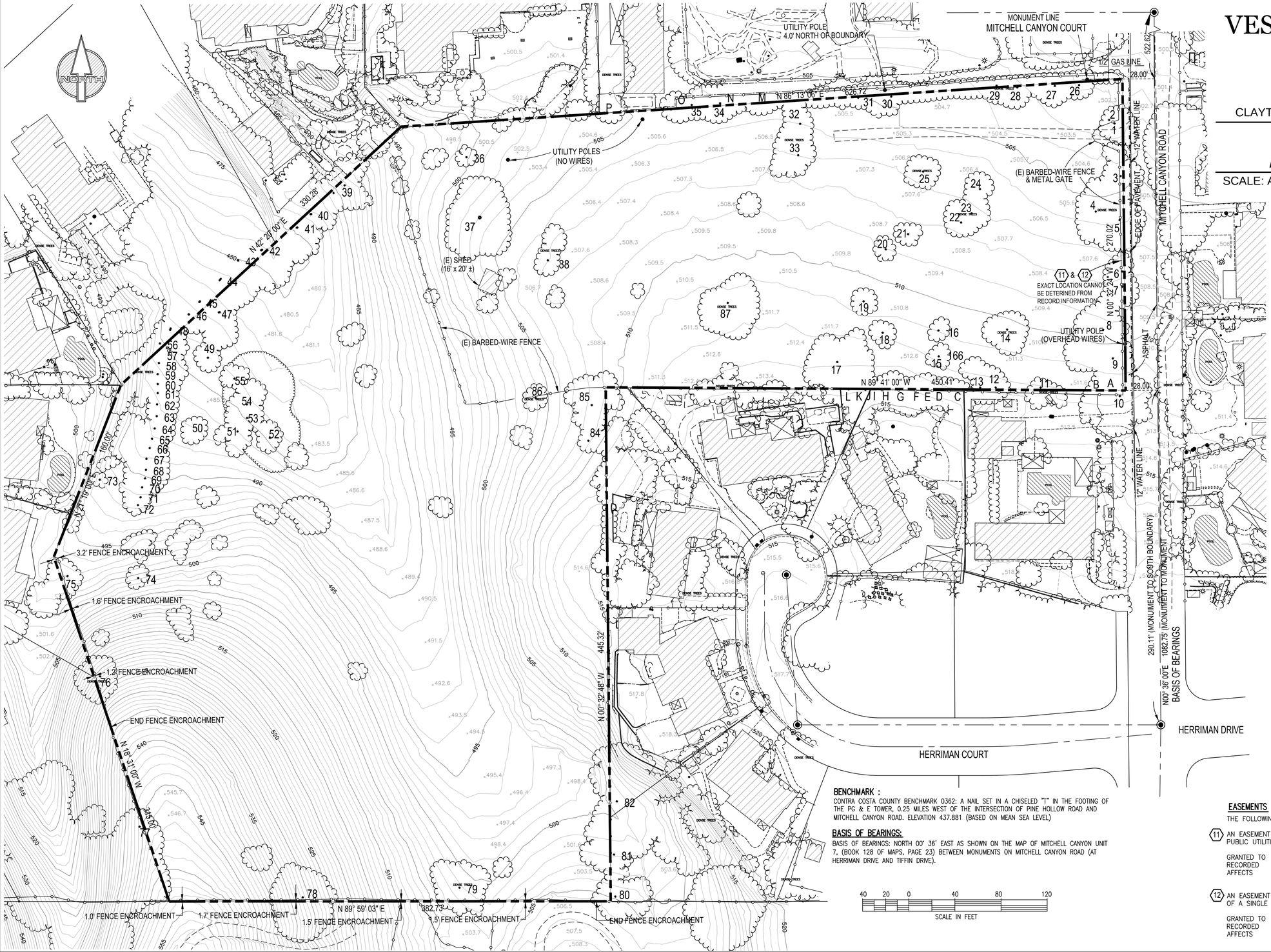
DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
NOTES AND STREET SECTIONS
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-1 OF 6 SHEETS
JOB NO. 18-16-00

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

BOUNDARY AND EXISTING CONDITION
SCALE: AS SHOWN APRIL, 2020



BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

40 20 0 40 80 120
SCALE IN FEET

LEGEND & ABBREVIATIONS

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EASEMENT
- STORM DRAIN LINE
- SEWER LINE
- FOUND STANDARD CITY STREET MONUMENT
- FOUND SURVEY MONUMENT AS NOTED
- MANHOLE (TYPE AS NOTED)
- CATCH BASIN (ADJACENT TO MANHOLE TYPICAL)
- CATCH BASIN(S)
- WATER VALVE
- STREET LIGHT (PRIVATE)
- STREET LIGHT (PUBLIC)
- UTILITY BOX/VAULT (TYPE AS NOTED)
- 16 • TREE TRUNK LOCATION (SEE ARBORIST REPORT)
- ○ S. SIGN

BFP	BACKFLOW PREVENTER	JP	POWER POLE (JOINT SERVICE)
C.	CONCRETE	SD	STORM DRAIN
CB	CATCH BASIN (STORM DRAIN INLET)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	SF	SQUARE FEET
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL (PG&E)	SS	SANITARY SEWER
(E)	EXISTING	SSMH	SANITARY SEWER MANHOLE
F	FIRE (WATER) SERVICE LINE	T	TELEPHONE (COMMUNICATIONS, SBC, PG&E)
FDC	FIRE DEPARTMENT CONNECTION	W	WATER MAIN
FH	FIRE HYDRANT	WM	WATER METER
G	GAS	WV	WATER VALVE
GV	GAS VALVE		

EASEMENTS (NUMBERING AND LANGUAGE CORRESPONDS WITH THE TITLE REPORT)
THE FOLLOWING EASEMENTS AFFECT PARCEL 1:

(11) AN EASEMENT FOR CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF PUBLIC UTILITIES AND INCIDENTAL PURPOSES.

GRANTED TO : PACIFIC TELEPHONE AND TELEGRAPH COMPANY
RECORDED : SEPTEMBER 16, 1914 IN BOOK 227 OF DEEDS, PAGE 283
AFFECTS : THE NORTHWEST 1/4 OF SECTION 14 (DESCRIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

(12) AN EASEMENT FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF A SINGLE LINE OF POLES, TELEPHONE AND TELEGRAPH LINES AND INCIDENTAL PURPOSES.

GRANTED TO : VALLEY PIPE LINE COMPANY, A CALFORNIA CORPORATION
RECORDED : MAY 20, 1915 IN BOOK 241 OF DEEDS, PAGE 331
AFFECTS : A PORTION OF THE NORTHWEST 1/4 OF SECTION 14 (DESCIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN REDNICK No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

BOUNDARY AND EXISTING CONDITION

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-2 OF 6 SHEETS
JOB NO. 18-16-00

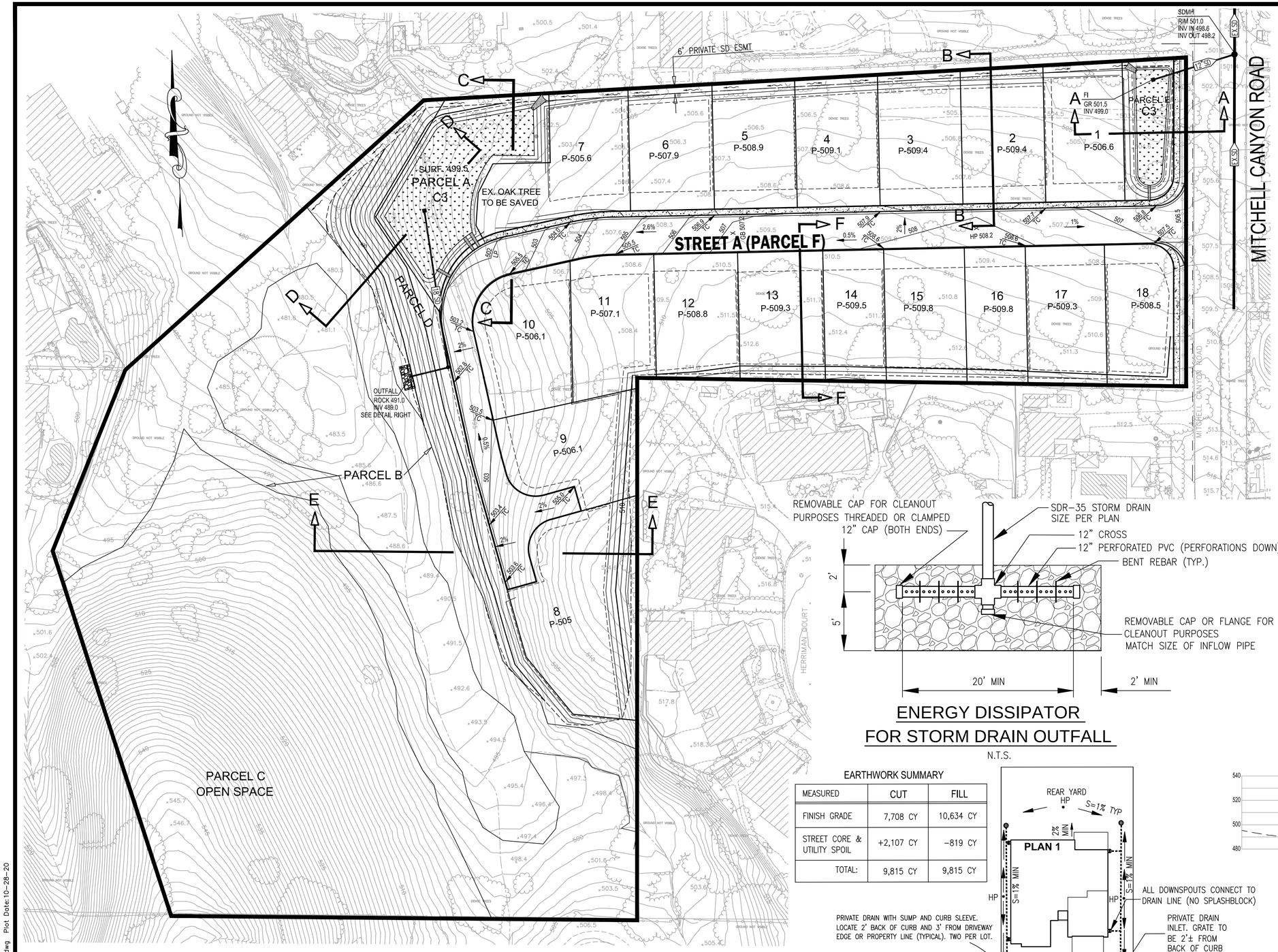
SITE PLAN

M:\Jobs\18-16-00\TM\TM C-2 BOUNDARY AND EXIST COND.dwg Plot Date:7-17-20

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN — APRIL, 2020
UPDATED: JULY, 2020



40 20 0 40 80 120
SCALE IN FEET

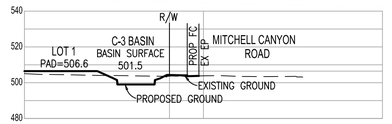
GRADING & DRAINAGE PLAN
SCALE: 1" = 40' HORIZONTAL & VERTICAL

ENERGY DISSIPATOR FOR STORM DRAIN OUTFALL
N.T.S.

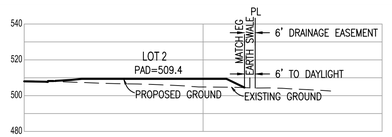
EARTHWORK SUMMARY

MEASURED	CUT	FILL
FINISH GRADE	7,708 CY	10,634 CY
STREET CORE & UTILITY SPOIL	+2,107 CY	−819 CY
TOTAL:	9,815 CY	9,815 CY

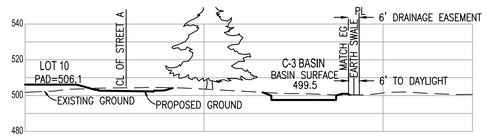
TYPICAL LOT DRAINAGE



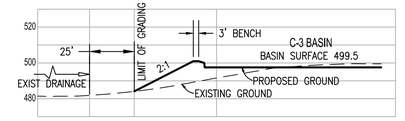
SECTION A-A



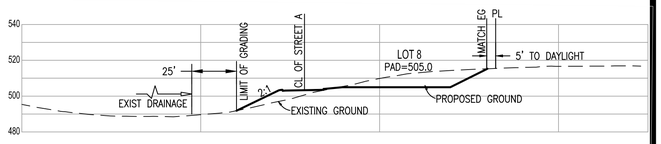
SECTION B-B



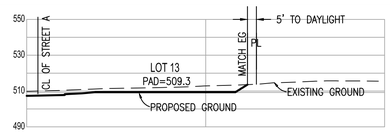
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY GRADING & DRAINAGE PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-3 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-3 GRADING.dwg Plot Date:10-28-20

VESTING TENTATIVE MAP

FOR

SUBDIVISION 9536

DIABLO MEADOWS

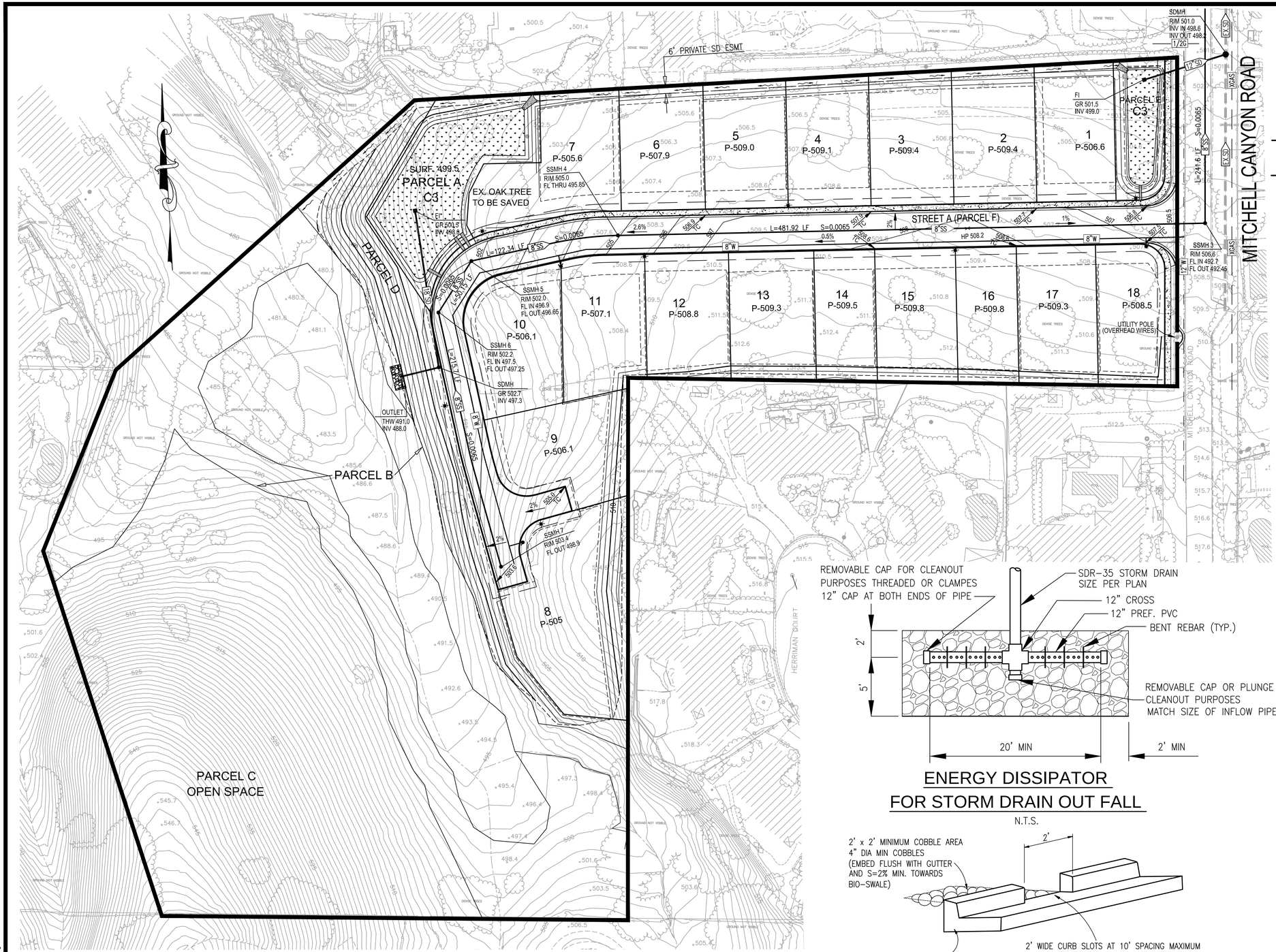
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY UTILITY PLAN

SCALE: AS SHOWN

APRIL, 2020

UPDATED: OCTOBER, 2020



40 20 0 40 80 120

SCALE IN FEET

PRELIMINARY UTILITY PLAN

SCALE: 1" = 40'

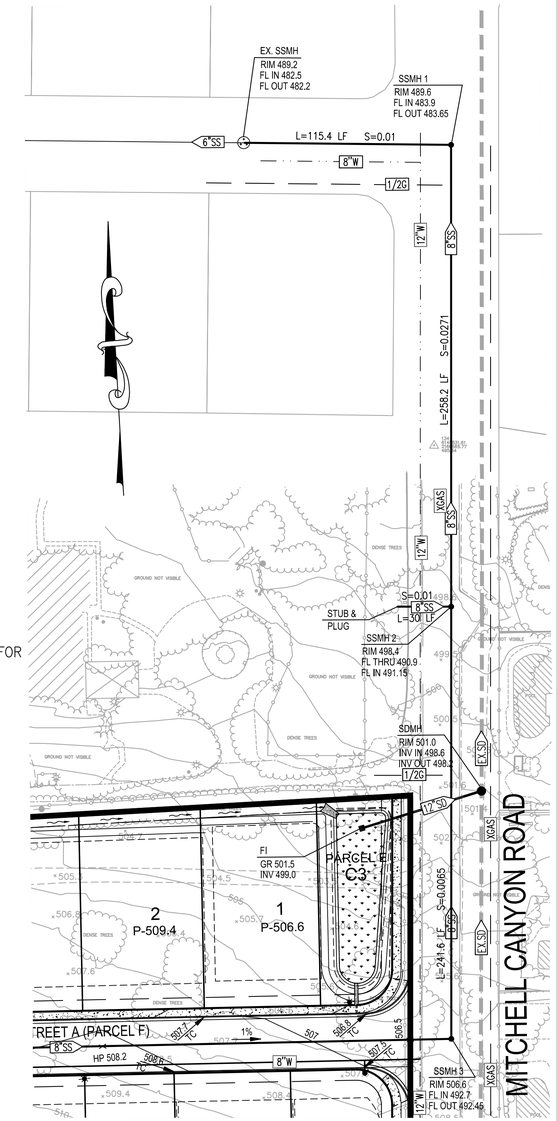
ENERGY DISSIPATOR

FOR STORM DRAIN OUT FALL

N.T.S.

TYPICAL CURB SLOT ADJACENT TO BIO-SWALES

NOT TO SCALE



DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY UTILITY PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. **C-4** OF 6 SHEETS

JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-4 UTILITY.dwg Plot Date:1-04-21

VESTING TENTATIVE MAP

FOR

SUBDIVISION 9538

DIABLO MEADOWS

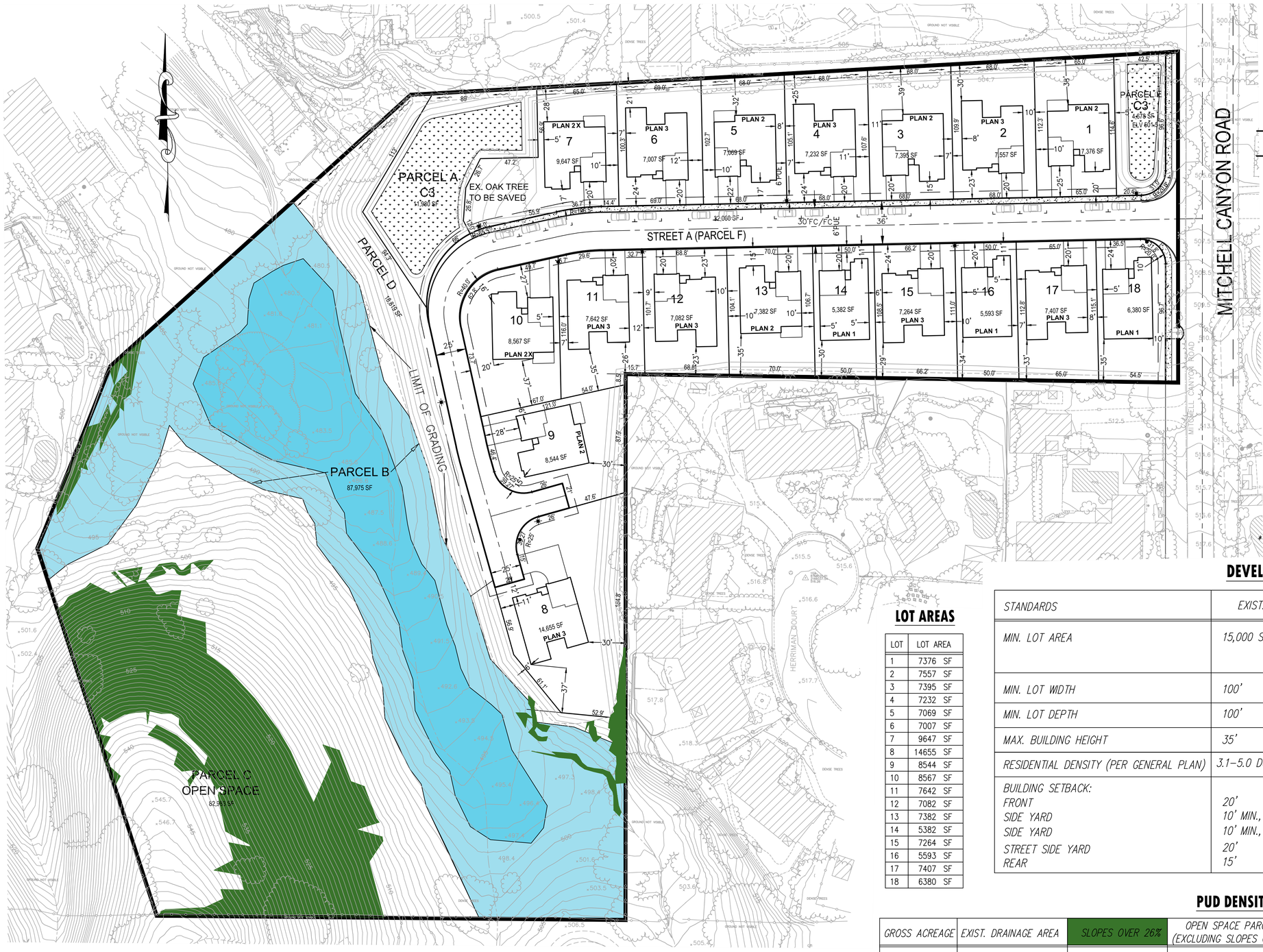
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY DEVELOPMENT PLAN

SCALE: AS SHOWN

APRIL, 2020

UPDATED: OCTOBER, 2020



SUMMARY OF PRODUCT TYPE & SETBACKS

PLAN TYPE	NUMBER OF UNITS	MINIMUM SETBACKS			
		FRONT		SIDES	REAR
		LIVING AREA	GARAGE		
1	3	10'	20'	5'/5'	15'
2	5	10'	20'	5'/10'	15'
2X	2	10'	20'	5'/10'	15'
3	8	10'	20'	5'/10'	15'
TOTAL	18				

PARKING SUMMARY

PARKING TYPE	NUMBER OF SPACES
*ON STREET	15
DRIVEWAY	36
GARAGE	36
TOTAL	87

* PARALLEL PARKING DIMENSION IS 8'x22'

PARCEL AREAS

PARCEL	AREA	
A	0.28 AC	C3 BASIN
B	2.02 AC	EXIST. DRAINAGE AREA
C	1.91 AC	OPEN SPACE
D	0.43 AC	OPEN SPACE
E	0.11 AC	C3 BASIN
F	0.74 AC	STREET R/W
LOTS 1–18	3.19 AC	SINGLE FAMILY
TOTAL	8.68 AC	

LOT AREAS

LOT	LOT AREA
1	7376 SF
2	7557 SF
3	7395 SF
4	7232 SF
5	7069 SF
6	7007 SF
7	9647 SF
8	14655 SF
9	8544 SF
10	8567 SF
11	7642 SF
12	7082 SF
13	7382 SF
14	5382 SF
15	7264 SF
16	5593 SF
17	7407 SF
18	6380 SF

DEVELOPMENT STANDARDS

STANDARDS	EXIST. R–15	PROPOSED (REZONE)
MIN. LOT AREA	15,000 SQ. FT.	5,000 SQ. FT (LOTS 14, 16 & 18) 7,000 SQ. FT (LOTS 1–13, 15 & 17 7,741 SQ. FT. (AVG)
MIN. LOT WIDTH	100'	50' (LOTS 14, 16 & 18 ONLY) TYPICAL LOT WIDTH APPROX. 65'
MIN. LOT DEPTH	100'	90' (TYPICAL LOT DEPTH APPROX. 100')
MAX. BUILDING HEIGHT	35'	35'
RESIDENTIAL DENSITY (PER GENERAL PLAN)	3.1–5.0 DU/NET ACRE (MD)	3.90 DU/NET ACRE
BUILDING SETBACK: FRONT SIDE YARD SIDE YARD STREET SIDE YARD REAR	 20' 10' MIN., 25' AGGREGATE 10' MIN., 25' AGGREGATE 20' 15'	 20' GAR / 10' LIVING AREA (VARIES BETWEEN 11'–24') 5' MIN., 10' AGGREGATE (LOTS 14, 16 & 18) 5' MIN., 15' AGGREGATE (LOTS 1–13, 15 & 17) 10' 15' (TYPICAL REAR SETBACK/YARD IS GREATER RHAN 20')

PUD DENSITY TABLE

GROSS ACREAGE	EXIST. DRAINAGE AREA	SLOPES OVER 26%	OPEN SPACE PARCEL C (EXCLUDING SLOPES OVER 26%)	*NET ACREAGE	NO. OF UNITS	DU/GROSS ACRE	DU/*NET ACRE
8.68± AC	2.02± AC	0.87± AC	1.17± AC	*4.62± AC	18	DU/AC	3.9 DU/AC

* NET ACREAGE INCLUDES STREETS, OPEN SPACE PARCEL D (AREAS LESS THAN 26% SLOPE), AND C–3 BASINS AREAS PER MUNI CODE 17.22

40 20 0 40 80 120

SCALE IN FEET

PRELIMINARY DEVELOPMENT PLAN

SCALE: 1" = 40'

M:\Jobs\18-16-00\TM\TM C-5 DEVELOPMENT PLAN.dwg Plot Date:1-04-21

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY DEVELOPMENT PLAN & CONSTRAINTS MAP

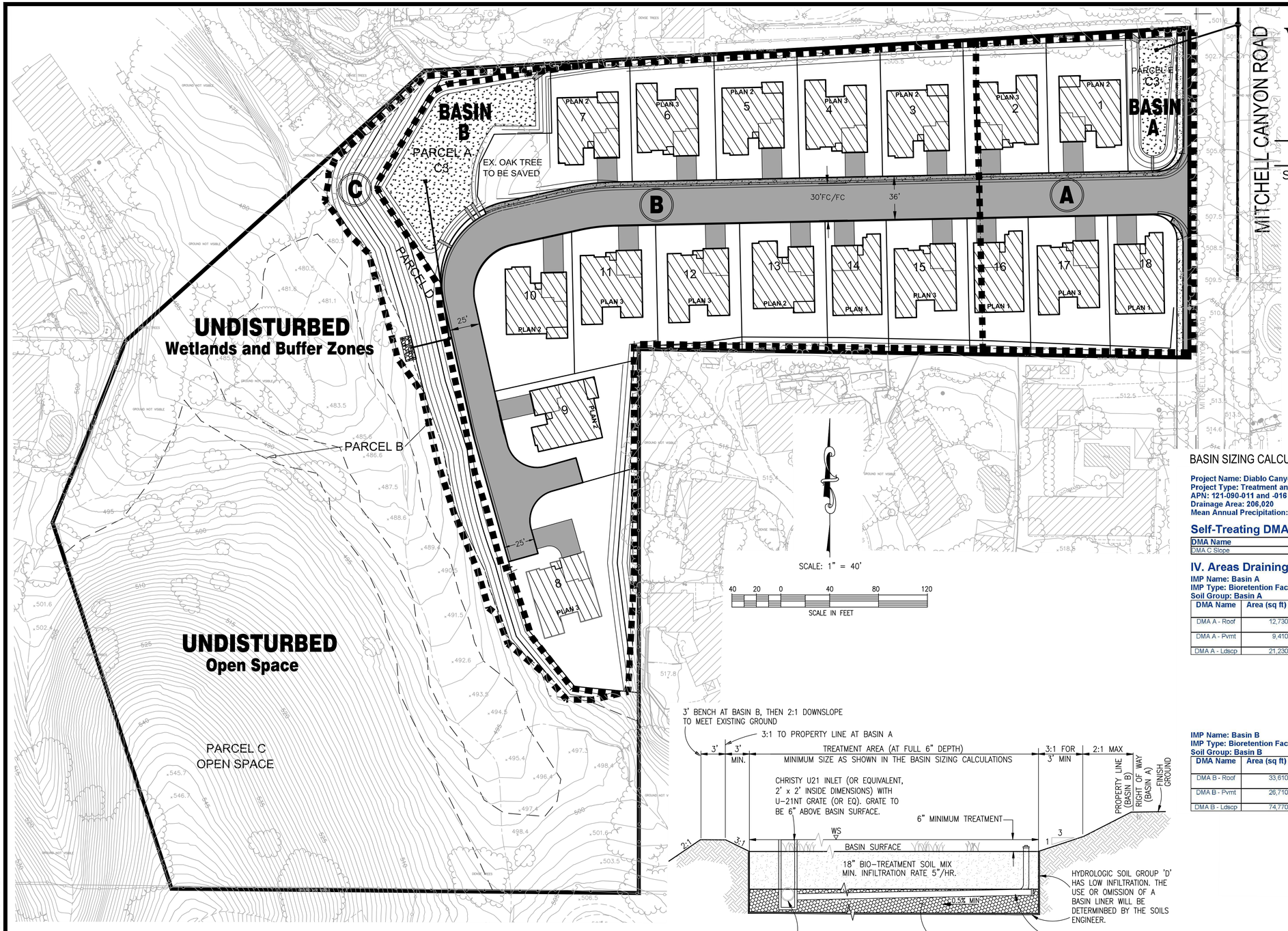
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-5 OF 6 SHEETS

JOB NO. 18-16-00

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

STORMWATER CONTROL PLAN
SCALE: AS SHOWN
APRIL, 2020
UPDATED: OCTOBER, 2020



PLAN VIEW
SCALE: 1" = 40'

SCALE: 1" = 40'

40 20 0 40 80 120
SCALE IN FEET

BIORETENTION BASIN - TYPICAL SECTION
NOT TO SCALE

LEGEND

- A — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PAVEMENT
- ROOFTOPS (INCLUDES WALKS AND PATIOS)
- LANDSCAPE (NO HATCH)
- RETENTION AREA (BASIN)

BASIN SIZING CALCULATIONS

Project Name: Diablo Canyon
Project Type: Treatment and Flow Control
APN: 121-090-011 and -016
Drainage Area: 206,020
Mean Annual Precipitation: 18.7

Self-Treating DMAs

DMA Name	Area (sq ft)
DMA C Slope	17,690.0

IV. Areas Draining to IMPs

IMP Name: Basin A
IMP Type: Bioretention Facility
Soil Group: Basin A

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing
DMA A - Roof	12,730	Conventional Roof	1.00	12,730	
DMA A - Pvmt	9,410	Concrete or Asphalt	1.00	9,410	
DMA A - Ldscp	21,230	Landscape	0.70	14,861	
			Total	37,001	

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	1,972	1,980
Surface Volume	0.042	1.066	1,657	1,660
Subsurface Volume	0.055	1.066	2,169	2,180
Maximum Underdrain Flow (cfs)				0.07
Orifice Diameter (in)				1.73

IMP Name: Basin B
IMP Type: Bioretention Facility
Soil Group: Basin B

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing
DMA B - Roof	33,610	Conventional Roof	1.00	33,610	
DMA B - Pvmt	26,710	Concrete or Asphalt	1.00	26,710	
DMA B - Ldscp	74,770	Landscape	0.70	52,339	
			Total	112,659	

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	6,005	7,870
Surface Volume	0.042	1.066	5,044	5,050
Subsurface Volume	0.055	1.066	6,605	6,620
Maximum Underdrain Flow (cfs)				0.23
Orifice Diameter (in)				3.06

SWCP FIGURE A

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER — JOHN RZONCA — No. C38710 EXP: 3/31/2021 — CIVIL — STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

PRELIMINARY STORMWATER CONTROL PLAN

SHEET NO. C-6 OF 6 SHEETS
JOB NO. 18-16-00

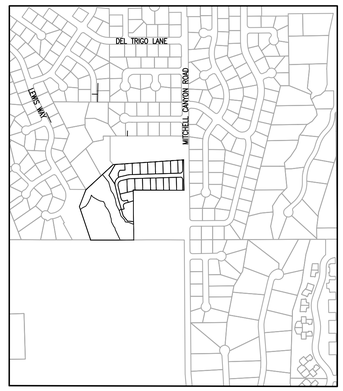
M:\Jobs\18-16-00\TM\TM C-6 SWCP.dwg Plot Date:10-15-20

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

NOTES AND SECTIONS
SCALE: AS SHOWN APRIL, 2020



SITE PLAN
SCALE: 1" = 60'



VICINITY MAP
SCALE: 1"=500'

BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

TITLE REPORT:
FIRST AMERICAN TITLE COMPANY, ORDER NO. 0131-623819ALA
DATED: DECEMBER 13, 2019 AMENDED: JANUARY 27, 2020

GENERAL NOTES

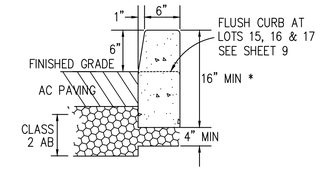
1. OWNER: THE FRED CLAYTON TRUST
   DEVELOPER: DENOVA HOMES, 1500 WILLOW PASS COURT, CONCORD, CA 94520, CONTACT: TRENT SANSON
   CIVIL ENGINEER : MERIDIAN ASSOCIATES, INC., 1300A WILLOW PASS COURT, CONCORD, CA. 94520, CONTACT: HOMAYUN KARIM
   SOILS ENGINEER : STEVENS, FERRONE & BAILEY, 1600 WILLOW PASS COURT, CONCORD, CA 94520, (PROJECT NO. 155-90 DATED: FEBRUARY 28, 2020) CONTACT: KEN FERRONE
2. ASSESSOR'S PARCEL NUMBERS : 121-090-011-2 AND 121-090-016-1
3. EXISTING LAND USE : VACANT
4. PROPOSED LAND USE : SINGLE FAMILY RESIDENTIAL
5. SITE AREA : GROSS AREA FOR ALL PARCELS: 8.68 ACRES±, NET ACREAGE INCLUDED IN PUD: 4.61 ACRES±
6. NUMBER OF LOTS : 18 RESIDENTIAL LOTS & 5 PARCELS
7. GENERAL PLAN : LOW DENSITY RESIDENTIAL (3.1 TO 5.0 UNITS/AC)
8. EXISTING ZONING : R-15
   PROPOSED ZONING: PUD
9. DENSITY (ALLOWED): 3.1 – 5.0 UNITS/AC
   DENSITY PROPOSED: NET DENSITY IN PUD: 3.9 UNITS/ACRE
10. UTILITY PROVIDERS
    WATER : CONTRA COSTA WATER DISTRICT (CCWD)
    GAS & ELECTRIC : PACIFIC GAS & ELECTRIC
    SEWER : CITY OF CONCORD
    TELEPHONE : ATT
    CABLE: COMCAST CABLE
    ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND. ALL STORM DRAINS, SANITARY SEWERS AND WATER MAINS SHALL ADHERE TO THE MINIMUM SIZES SLOPES, AND SPECIFICATIONS OF THE GOVERNING AGENCY'S STANDARDS.
11. TOPOGRAPHY: EXISTING TOPOGRAPHY PROVIDED BY VERTICAL MAPPING RESOURCES AND A FIELD SURVEY BY MERIDIAN ASSOCIATES, INC. DATED AUGUST 8, 2019. CONTOUR INTERVAL IS 1 FOOT.
12. BOUNDARY: BOUNDARY AS SHOWN IS BASED ON RECORD INFORMATION ONLY. FINAL BOUNDARY SHALL BE BASED ON A FIELD SURVEY.
13. STREETS: ALL PROPOSED NEW STREETS ARE PUBLIC
14. FLOOD ZONE: THE SITE IS DESIGNATED AS ZONE X (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FEMA FIRM MAP PANEL 442 OF 725 (06001C0442G) DATED AUGUST 3, 2009.
15. GRADING: GRADES SHOWN HEREON ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.
16. DIMENSIONS: HOUSE FOOTPRINTS, LOT DIMENSIONS AND AREA(S) SHOWN HEREON ARE APPROXIMATE AND SUBJECT TO CHANGE DURING FINAL DESIGN.

LEGEND

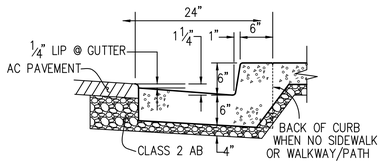
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		CURB AND GUTTER (TYPE AS NOTED)
		CENTERLINE
		UTILITY LINE (TYPE & SIZE AS NOTED)
○	●	MANHOLE
		STORM DRAIN PIPE
□	■	STORM DRAIN INLET
		WATER MAIN
		FIRE HYDRANT
		BLOW OFF
		ELECTROLIER
777	777	CONTOURS
x 777.0	TC 777.70	SPOT ELEVATIONS

ABBREVIATIONS:

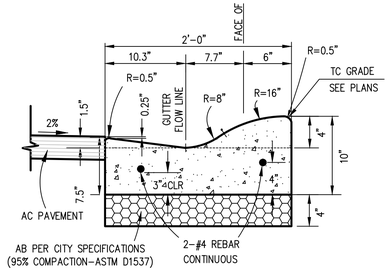
AB	AGGREGATE BASE	JT	JOINT TRENCH
AC	ASPHALT CONCRETE	LP	LOW POINT
CL	CENTER LINE	MH	MANHOLE
CB	CATCH BASIN	PL	PROPERTY LINE
CO	CLEAN OUT	PUE	PUBLIC UTILITY EASEMENT
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
EX	EXISTING	R/W	RIGHT OF WAY
FC	FACE OF CURB	SD	STORM DRAIN
FF	FINISHED FLOOR	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSCO	SANITARY SEWER CLEANOUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	TC	TOP OF CURB
GR	GRATE ELEVATION	TFC	TOP OF FLUSH CURB
HP	HIGH POINT	TYP	TYPICAL
		W	WATER LINE



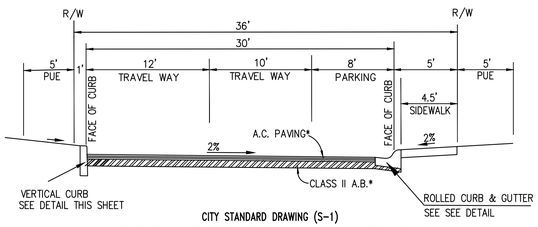
6" VERTICAL CURB & FLUSH CURB
NOT TO SCALE



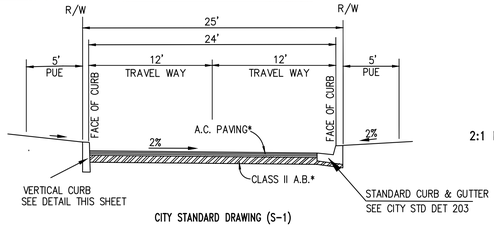
STANDARD C1-1 CURB, GUTTER & WALK
SEE CITY STANDARD PLAN C1-1 FOR DETAILS
NOT TO SCALE



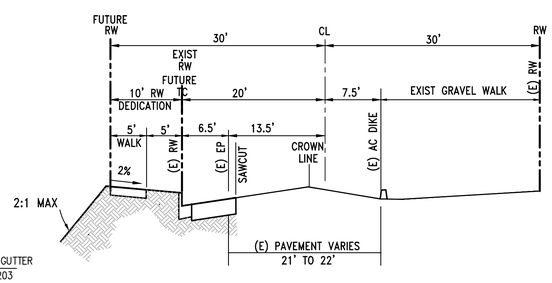
ROLLED CURB AND GUTTER
NOT TO SCALE



CITY STANDARD DRAWING (S-1)
TYPICAL STREET SECTION - 30' CURB TO CURB
NOT TO SCALE



CITY STANDARD DRAWING (S-1)
TYPICAL STREET SECTION - 24' CURB TO CURB (NO PARKING)
NOT TO SCALE



MITCHELL CANYON ROAD TYPICAL SECTION
NOT TO SCALE

SHEET INDEX

SHEET	DESCRIPTION
C-1	NOTES AND STREET SECTIONS
C-2	BOUNDARY AND EXISTING CONDITION
C-3	GRADING AND DRAINAGE PLAN
C-4	UTILITY PLAN
C-5	PRELIMINARY DEVELOPMENT PLAN
C-6	CONCEPTUAL STORM WATER MANAGEMENT PLAN

M:\Jobs\18-16-00\TM\TM C-1 TITLE.dwg Plot Date:7-17-20

DATE: MARCH, 2020
SCALE: AS SHOWN
DRAWN: TJB/YPS
DESIGNED: HK/TB
ENGINEER: JR/YS
MANAGER: HK

NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

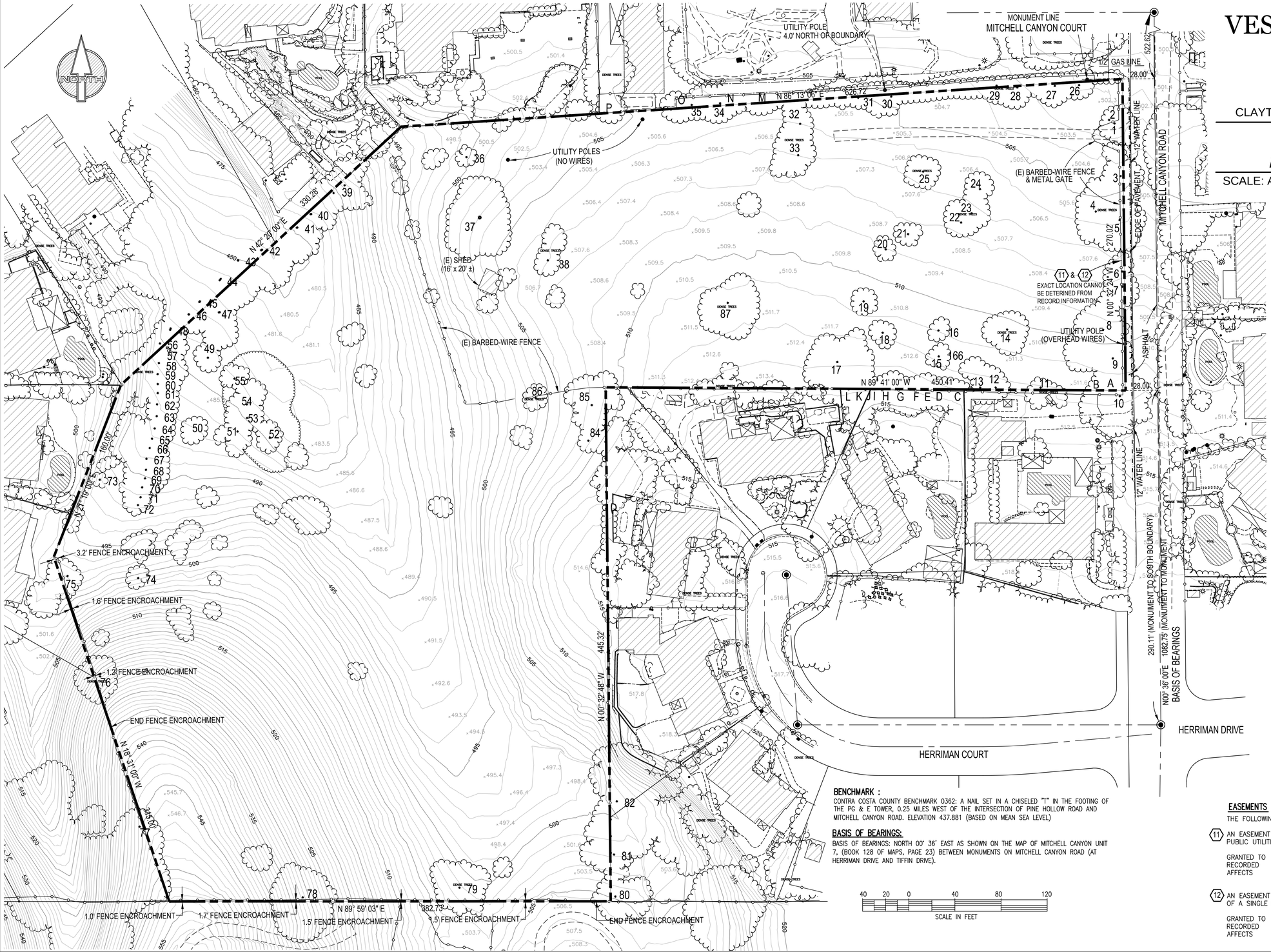
DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
NOTES AND STREET SECTIONS
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-1 OF 6 SHEETS
JOB NO. 18-16-00

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

BOUNDARY AND EXISTING CONDITION
SCALE: AS SHOWN APRIL, 2020



BENCHMARK :
CONTRA COSTA COUNTY BENCHMARK 0362: A NAIL SET IN A CHISELED "T" IN THE FOOTING OF THE PG & E TOWER, 0.25 MILES WEST OF THE INTERSECTION OF PINE HOLLOW ROAD AND MITCHELL CANYON ROAD. ELEVATION 437.881 (BASED ON MEAN SEA LEVEL)

BASIS OF BEARINGS:
BASIS OF BEARINGS: NORTH 00° 36' EAST AS SHOWN ON THE MAP OF MITCHELL CANYON UNIT 7, (BOOK 128 OF MAPS, PAGE 23) BETWEEN MONUMENTS ON MITCHELL CANYON ROAD (AT HERRIMAN DRIVE AND TIFFIN DRIVE).

40 20 0 40 80 120
SCALE IN FEET

LEGEND & ABBREVIATIONS

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EASEMENT
- STORM DRAIN LINE
- SEWER LINE
- FOUND STANDARD CITY STREET MONUMENT
- FOUND SURVEY MONUMENT AS NOTED
- MANHOLE (TYPE AS NOTED)
- CATCH BASIN (ADJACENT TO MANHOLE TYPICAL)
- CATCH BASIN(S)
- WATER VALVE
- STREET LIGHT (PRIVATE)
- STREET LIGHT (PUBLIC)
- UTILITY BOX/VAULT (TYPE AS NOTED)
- 16 • TREE TRUNK LOCATION (SEE ARBORIST REPORT)
- ○ S. SIGN

BFP	BACKFLOW PREVENTER	JP	POWER POLE (JOINT SERVICE)
C.	CONCRETE	SD	STORM DRAIN
CB	CATCH BASIN (STORM DRAIN INLET)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	SF	SQUARE FEET
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL (PG&E)	SS	SANITARY SEWER
(E)	EXISTING	SSMH	SANITARY SEWER MANHOLE
F	FIRE (WATER) SERVICE LINE	T	TELEPHONE (COMMUNICATIONS, SBC, PG&E)
FDC	FIRE DEPARTMENT CONNECTION	W	WATER MAIN
FH	FIRE HYDRANT	WM	WATER METER
G	GAS	WV	WATER VALVE
GV	GAS VALVE		

EASEMENTS (NUMBERING AND LANGUAGE CORRESPONDS WITH THE TITLE REPORT)
THE FOLLOWING EASEMENTS AFFECT PARCEL 1:

(11) AN EASEMENT FOR CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF PUBLIC UTILITIES AND INCIDENTAL PURPOSES.

GRANTED TO : PACIFIC TELEPHONE AND TELEGRAPH COMPANY
RECORDED : SEPTEMBER 16, 1914 IN BOOK 227 OF DEEDS, PAGE 283
AFFECTS : THE NORTHWEST 1/4 OF SECTION 14 (DESCRIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

(12) AN EASEMENT FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, REPAIR AND OPERATION OF A SINGLE LINE OF POLES, TELEPHONE AND TELEGRAPH LINES AND INCIDENTAL PURPOSES.

GRANTED TO : VALLEY PIPE LINE COMPANY, A CALFORNIA CORPORATION
RECORDED : MAY 20, 1915 IN BOOK 241 OF DEEDS, PAGE 331
AFFECTS : A PORTION OF THE NORTHWEST 1/4 OF SECTION 14 (DESCIBES THE WHOLE PROPERTY; EXISTING LINES ARE LOCATED ALONG THE MITCHELL CANYON ROAD RIGHT OF WAY)

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN REDNICK No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

BOUNDARY AND EXISTING CONDITION

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-2 OF 6 SHEETS
JOB NO. 18-16-00

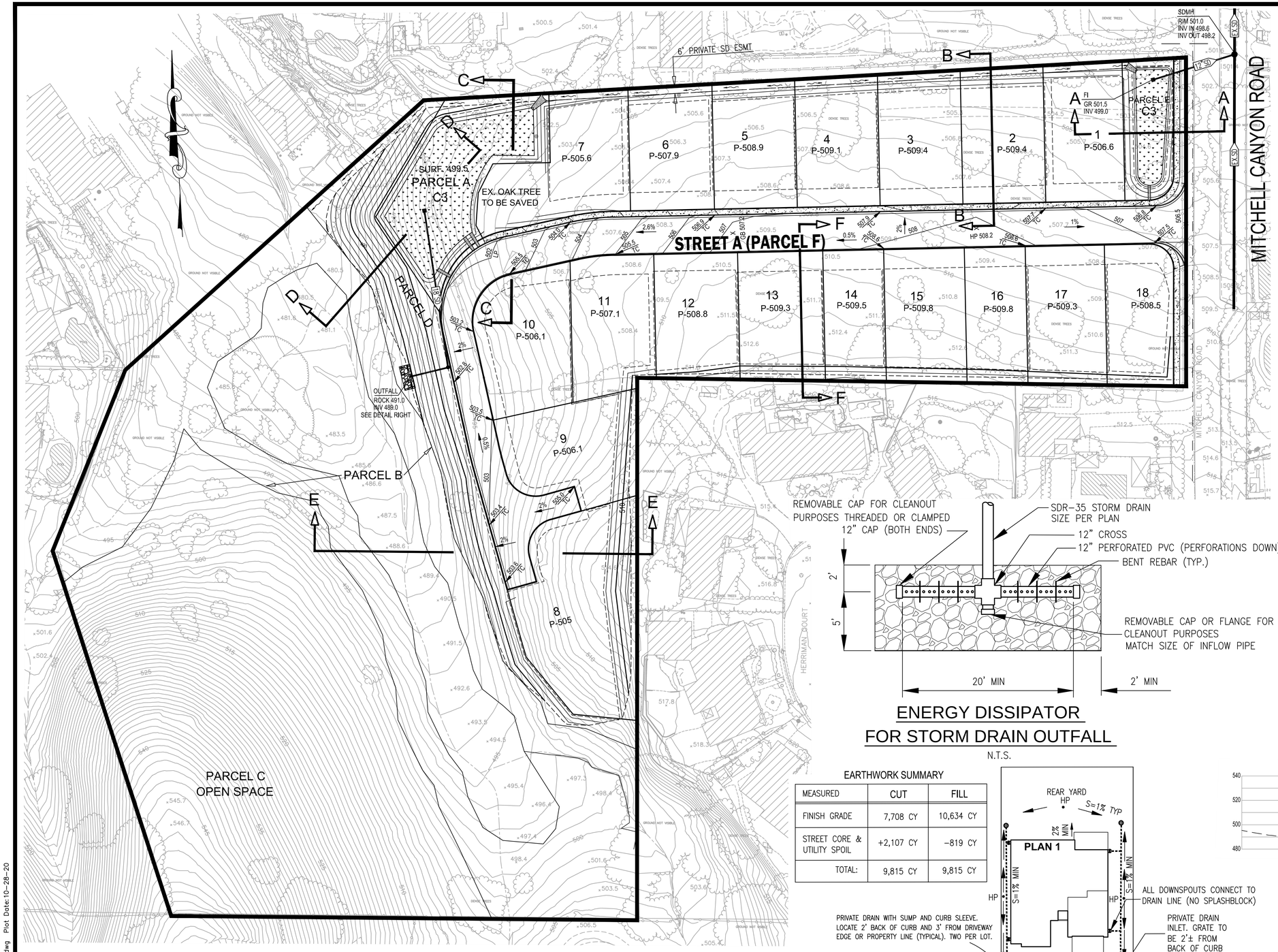
SITE PLAN

M:\Jobs\18-16-00\TM\TM C-2 BOUNDARY AND EXIST COND.dwg Plot Date:7-17-20

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN — APRIL, 2020
UPDATED: JULY, 2020



40 20 0 40 80 120
SCALE IN FEET

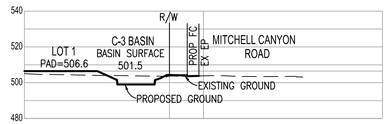
GRADING & DRAINAGE PLAN
SCALE: 1" = 40' HORIZONTAL & VERTICAL

ENERGY DISSIPATOR FOR STORM DRAIN OUTFALL
N.T.S.

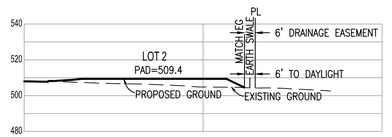
EARTHWORK SUMMARY

MEASURED	CUT	FILL
FINISH GRADE	7,708 CY	10,634 CY
STREET CORE & UTILITY SPOIL	+2,107 CY	−819 CY
TOTAL:	9,815 CY	9,815 CY

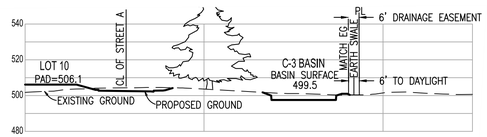
TYPICAL LOT DRAINAGE



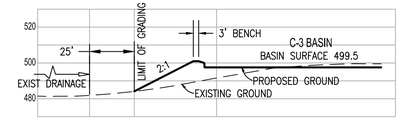
SECTION A-A



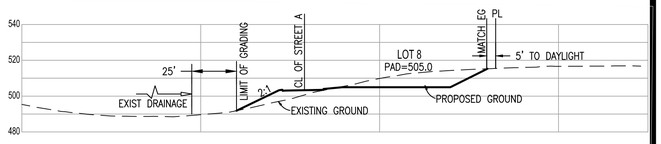
SECTION B-B



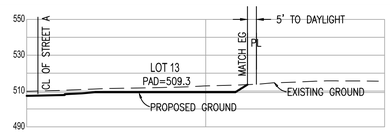
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY GRADING & DRAINAGE PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-3 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-3 GRADING.dwg Plot Date:10-28-20

VESTING TENTATIVE MAP

FOR

SUBDIVISION 9536

DIABLO MEADOWS

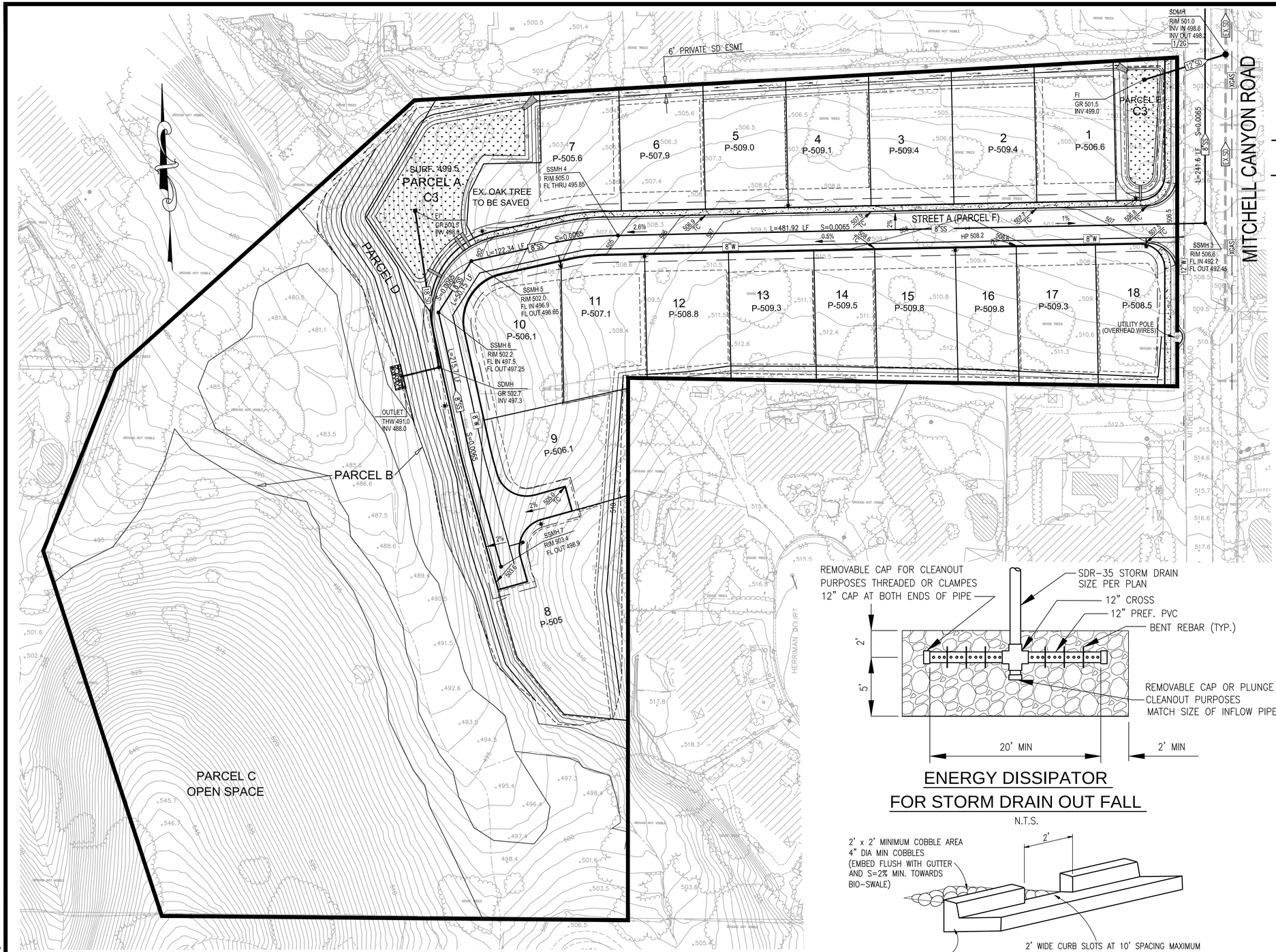
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY UTILITY PLAN

SCALE: AS SHOWN

APRIL, 2020

UPDATED: OCTOBER, 2020



40 20 0 40 80 120

SCALE IN FEET

PRELIMINARY UTILITY PLAN

SCALE: 1" = 40'

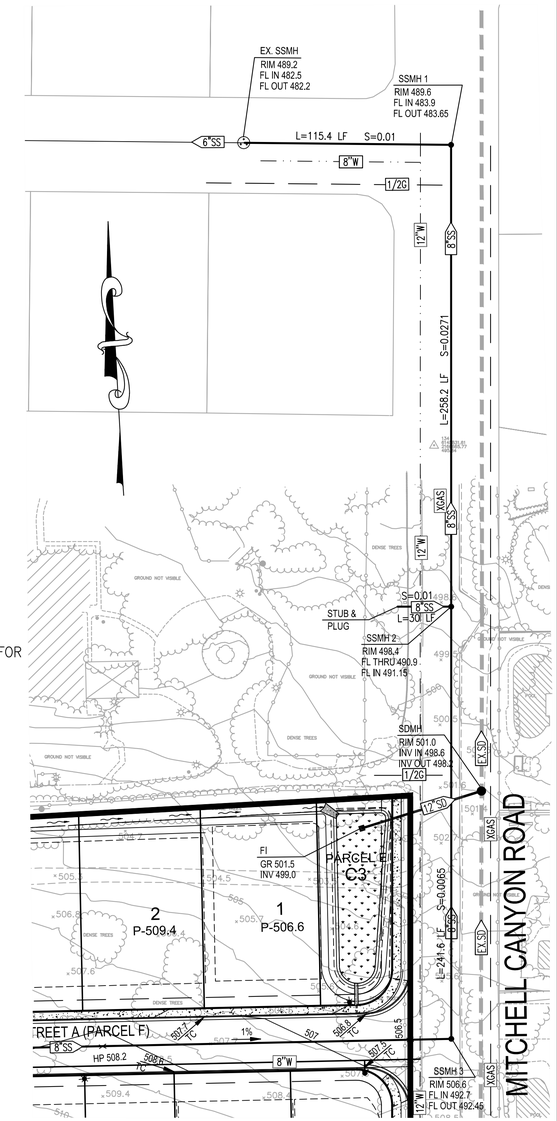
ENERGY DISSIPATOR

FOR STORM DRAIN OUT FALL

N.T.S.

TYPICAL CURB SLOT ADJACENT TO BIO-SWALES

NOT TO SCALE



DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY UTILITY PLAN

CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. **C-4** OF 6 SHEETS

JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-4 UTILITY.dwg Plot Date:1-04-21

VESTING TENTATIVE MAP

FOR

SUBDIVISION 9538

DIABLO MEADOWS

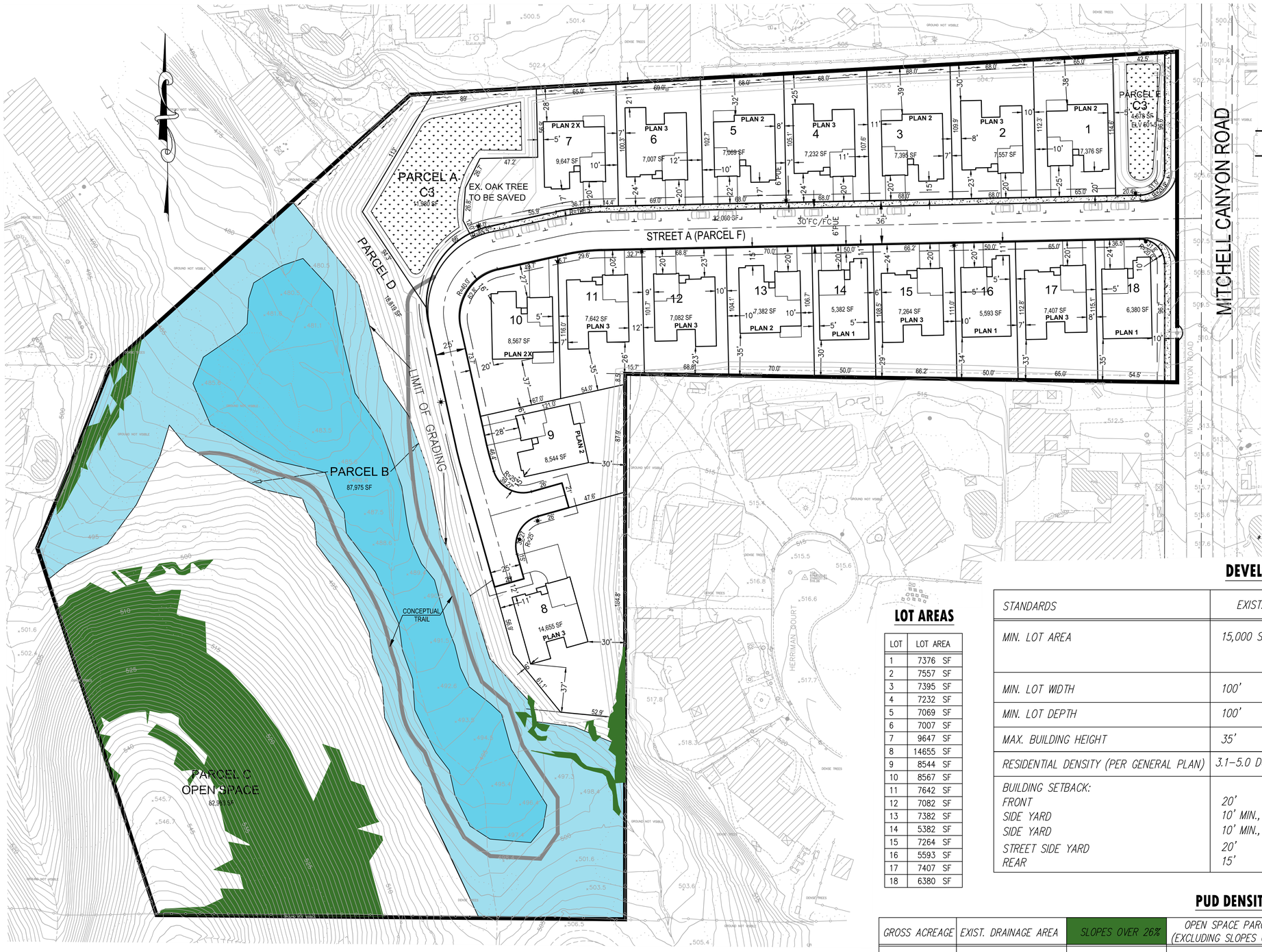
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

PRELIMINARY DEVELOPMENT PLAN

SCALE: AS SHOWN

APRIL, 2020

UPDATED: OCTOBER, 2020



40 20 0 40 80 120

SCALE IN FEET

PRELIMINARY DEVELOPMENT PLAN

SCALE: 1" = 40'

SUMMARY OF PRODUCT TYPE & SETBACKS

PLAN TYPE	NUMBER OF UNITS	MINIMUM SETBACKS			
		FRONT		SIDES	REAR
		LIVING AREA	GARAGE		
1	3	10'	20'	5'/5'	15'
2	5	10'	20'	5'/10'	15'
2X	2	10'	20'	5'/10'	15'
3	8	10'	20'	5'/10'	15'
TOTAL	18				

PARKING SUMMARY

PARKING TYPE	NUMBER OF SPACES
*ON STREET	15
DRIVEWAY	36
GARAGE	36
TOTAL	87

* PARALLEL PARKING DIMENSION IS 8'x22'

PARCEL AREAS

PARCEL	AREA	
A	0.28 AC	C3 BASIN
B	2.02 AC	EXIST. DRAINAGE AREA
C	1.91 AC	OPEN SPACE
D	0.43 AC	OPEN SPACE
E	0.11 AC	C3 BASIN
F	0.74 AC	STREET R/W
LOTS 1–18	3.19 AC	SINGLE FAMILY
TOTAL	8.68 AC	

LOT AREAS

LOT	LOT AREA
1	7376 SF
2	7557 SF
3	7395 SF
4	7232 SF
5	7069 SF
6	7007 SF
7	9647 SF
8	14655 SF
9	8544 SF
10	8567 SF
11	7642 SF
12	7082 SF
13	7382 SF
14	5382 SF
15	7264 SF
16	5593 SF
17	7407 SF
18	6380 SF

DEVELOPMENT STANDARDS

STANDARDS	EXIST. R–15	PROPOSED (REZONE)
MIN. LOT AREA	15,000 SQ. FT.	5,000 SQ. FT (LOTS 14, 16 & 18) 7,000 SQ. FT (LOTS 1–13, 15 & 17 7,741 SQ. FT. (AVG)
MIN. LOT WIDTH	100'	50' (LOTS 14, 16 & 18 ONLY) TYPICAL LOT WIDTH APPROX. 65'
MIN. LOT DEPTH	100'	90' (TYPICAL LOT DEPTH APPROX. 100')
MAX. BUILDING HEIGHT	35'	35'
RESIDENTIAL DENSITY (PER GENERAL PLAN)	3.1–5.0 DU/NET ACRE (MD)	3.90 DU/NET ACRE
BUILDING SETBACK: FRONT SIDE YARD SIDE YARD STREET SIDE YARD REAR	 20' 10' MIN., 25' AGGREGATE 10' MIN., 25' AGGREGATE 20' 15'	 20' GAR / 10' LIVING AREA (VARIES BETWEEN 11'–24') 5' MIN., 10' AGGREGATE (LOTS 14, 16 & 18) 5' MIN., 15' AGGREGATE (LOTS 1–13, 15 & 17) 10' 15' (TYPICAL REAR SETBACK/YARD IS GREATER RHAN 20')

PUD DENSITY TABLE

GROSS ACREAGE	EXIST. DRAINAGE AREA	SLOPES OVER 26%	OPEN SPACE PARCEL C (EXCLUDING SLOPES OVER 26%)	*NET ACREAGE	NO. OF UNITS	DU/GROSS ACRE	DU/*NET ACRE
8.68± AC	2.02± AC	0.87± AC	1.17± AC	*4.62± AC	18	DU/AC	3.9 DU/AC

* NET ACREAGE INCLUDES STREETS, OPEN SPACE PARCEL D (AREAS LESS THAN 26% SLOPE), AND C–3 BASINS AREAS PER MUNI CODE 17.22

M:\Jobs\18-16-00\TM\TM C-5 DEVELOPMENT PLAN.dwg Plot Date:1-13-21

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER JOHN RZONCA No. C38710 EXP: 3/31/2021 CIVIL STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS

PRELIMINARY DEVELOPMENT PLAN & CONSTRAINTS MAP

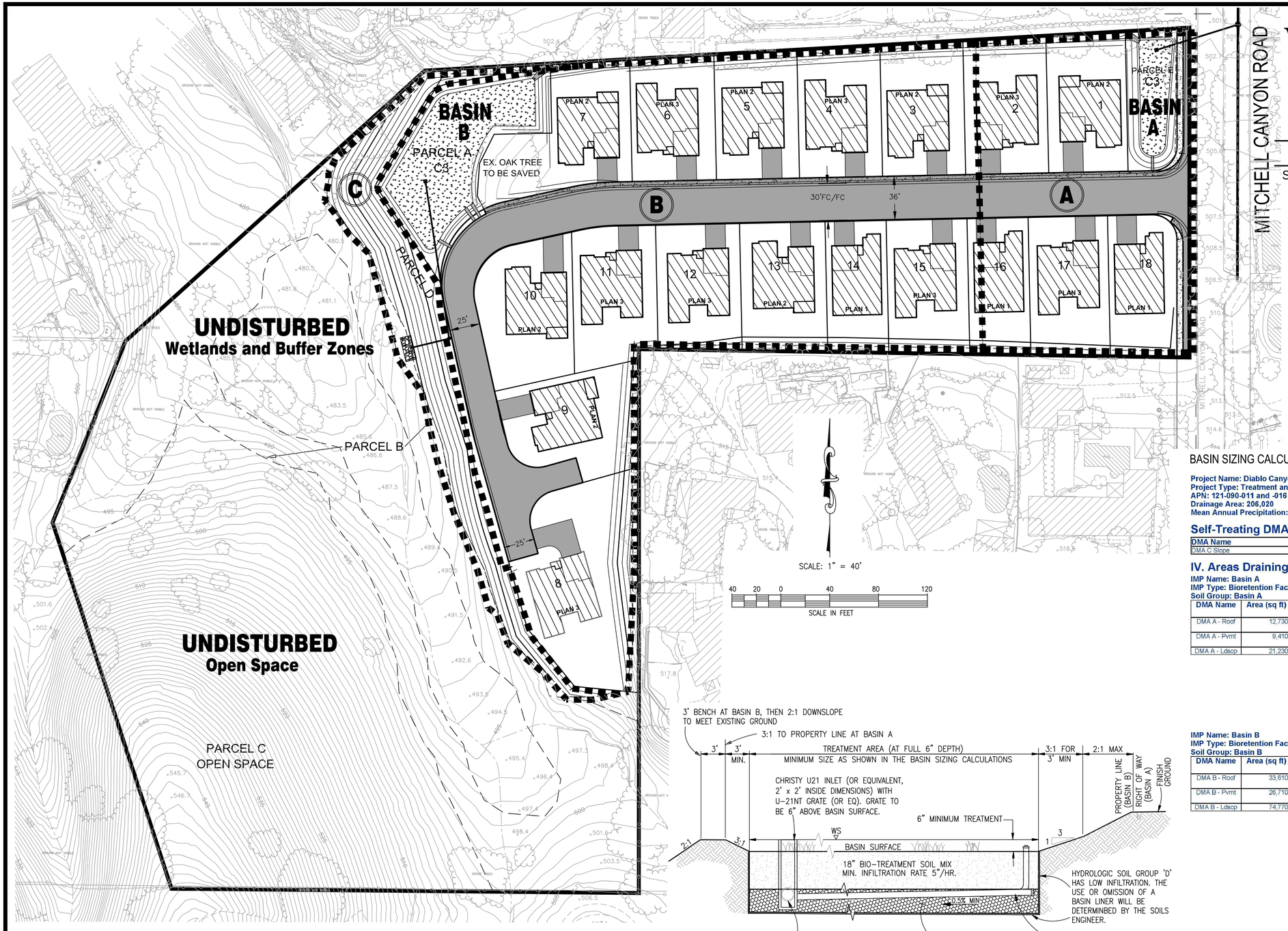
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

SHEET NO. C-5 OF 6 SHEETS

JOB NO. 18-16-00

VESTING TENTATIVE MAP
FOR
SUBDIVISION 9536
DIABLO MEADOWS
CLAYTON • CONTRA COSTA COUNTY • CALIFORNIA

STORMWATER CONTROL PLAN
SCALE: AS SHOWN
APRIL, 2020
UPDATED: OCTOBER, 2020



PLAN VIEW
SCALE: 1" = 40'

SCALE: 1" = 40'

40 20 0 40 80 120
SCALE IN FEET

BIORETENTION BASIN - TYPICAL SECTION
NOT TO SCALE

LEGEND

- A — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PAVEMENT
- ROOFTOPS (INCLUDES WALKS AND PATIOS)
- LANDSCAPE (NO HATCH)
- RETENTION AREA (BASIN)

BASIN SIZING CALCULATIONS

Project Name: Diablo Canyon
Project Type: Treatment and Flow Control
APN: 121-090-011 and -016
Drainage Area: 206,020
Mean Annual Precipitation: 18.7

Self-Treating DMAs

DMA Name	Area (sq ft)
DMA C Slope	17,690.0

IV. Areas Draining to IMPs

IMP Name: Basin A
IMP Type: Bioretention Facility
Soil Group: Basin A

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing
DMA A - Roof	12,730	Conventional Roof	1.00	12,730	
DMA A - Pvmt	9,410	Concrete or Asphalt	1.00	9,410	
DMA A - Ldscp	21,230	Landscape	0.70	14,861	
			Total	37,001	

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	1,972	1,980
Surface Volume	0.042	1.066	1,657	1,660
Subsurface Volume	0.055	1.066	2,169	2,180
Maximum Underdrain Flow (cfs)				0.07
Orifice Diameter (in)				1.73

IMP Name: Basin B
IMP Type: Bioretention Facility
Soil Group: Basin B

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing
DMA B - Roof	33,610	Conventional Roof	1.00	33,610	
DMA B - Pvmt	26,710	Concrete or Asphalt	1.00	26,710	
DMA B - Ldscp	74,770	Landscape	0.70	52,339	
			Total	112,659	

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	1.066	6,005	7,870
Surface Volume	0.042	1.066	5,044	5,050
Subsurface Volume	0.055	1.066	6,605	6,620
Maximum Underdrain Flow (cfs)				0.23
Orifice Diameter (in)				3.06

SWCP FIGURE A

DATE: MARCH, 2020				
SCALE:				
DRAWN: TJB/YPS				
DESIGNED: HK/TB				
ENGINEER: JR/YS				
MANAGER: HK	NO.	BY	DATE	REVISIONS

PREPARED BY, OR UNDER THE DIRECTION OF:
REGISTERED PROFESSIONAL ENGINEER — JOHN RZONCA — No. C38710 EXP: 3/31/2021 — CIVIL — STATE OF CALIFORNIA

MERIDIAN ASSOCIATES, INC.
CIVIL ENGINEERING • PLANNING • SURVEYING
1300A WILLOW PASS COURT
CONCORD, CA 94520
PHONE: 925-691-7300
FAX: 925-691-7110

DeNova Homes
1500 WILLOW PASS COURT, CONCORD, CA 94520
PHONE 925-685-0110 FAX 925-685-0660

SUBDIVISION 9536 TENTATIVE MAP DIABLO MEADOWS
CLAYTON CONTRA COSTA COUNTY CALIFORNIA

PRELIMINARY STORMWATER CONTROL PLAN

SHEET NO. C-6 OF 6 SHEETS
JOB NO. 18-16-00

M:\Jobs\18-16-00\TM\TM C-6 SWCP.dwg Plot Date:10-15-20

TREES, BUGS, DIRT

LANDSCAPE CONSULTING & TRAINING

December 14, 2020

Denova Homes
1500 Willow Pass Court
Concord CA 94520

Subject: Diablo Meadows Tree Numbers Summary Update

In answer to a question about tree numbers raised by Chair Chippero at the City of Clayton Planning Meeting (12/8/2020), pursuant to my Arborist Report (4/30/20), the following is an updated, correct summary of numbers of protected trees on site, trees offsite that may be affected by the project, trees to be removed, and trees to be preserved.

Trees With Trunks On Site;
- thirty six (36) trees
- one protected tree is proposed for preservation, #37 a large blue oak (*Quercus douglasii*) tree
- thirty five (35) trees are proposed for removal, *32 of which are protected, 3 of which are not protected*

Trees with Trunks Offsite or in/on Fencelines
- twenty two (22) trees; *4 embedded in fence, 18 offsite*
- twenty (20) trees offsite or in fenceline to remain
- two (2) not protected offsite proposed for removal

Michael Baefsky

Michael Baefsky
Registered Consulting Arborist #456

P.O. Box 311, Orinda, CA 94563 treesbugsdirt@gmail.com - email 925.254.7950 – Phone

DIABLO MEADOWS RESIDENTIAL SUBDIVISION CONDITIONS OF APPROVAL

FILES
Environmental Review ENV-01-20; Zoning Map Amendment ZOA-02-20; Vesting Tentative Subdivision Map MAP-01-20; Development Plan Permit DP-01-20; and Tree Removal Permit TRP-09-20.

DeNova Homes, Inc. (Applicant and Owner)

Section A Approvals

A1. _____ This approval is based on the following exhibits/reports received by the Community Development Department for 18 residential lots, 5 parcels, and a private street right-of-way, on the approximately 8.7-acre site as follows:

- Raney *Diablo Meadows Project Initial Study/Mitigated Negative Declaration*
- City of Clayton. *Clayton 2020 General Plan.* As amended July 19, 2016.
- City of Clayton. City of Clayton Municipal Code. Available at: https://library.municode.com/ca/clayton/codes/municipal_code?nodeId=CICOCLCA
- Contra Costa County General Plan
- Contra Costa Clean Water Program C.3 Guidebook. Available at: https://www.cccleanwater.org/development-infrastructure/development/stormwater-c-3-guidebook
- East Contra Costa County Habitat Conservation Plan
- Trees, Bugs, Dirt Landscape Consulting and Training. Arborist Report: Diablo Canyon, Mitchell Canyon Road, Clayton, CA. April 30th, 2020.
- Vesting Tentative Map: Notes and Sections Boundary and Existing Condition, dated April 2020; Preliminary Grading and Drainage, updated July 2020; Preliminary Utility Plan, Preliminary Development & Constraints Plan, Stormwater Control Plan, updated October 2020;
- Existing Tree Exhibit, March 2020;
- Grading Cross Sections, updated July 2020
- Earthwork Calcs Exhibit, prepared by Meridian Associates, Inc. undated,
- Design Review Booklet: Architectural Plans (Floor Plans and Architectural Elevations, and Architectural Color Schemes, prepared by OAG Architects, Inc., dated 4/22/20
- Landscape and Fencing Plan, prepared by Borrecco/Kilian & Associates, Inc., dated 4/8/20
- Preliminary title report, prepared by First American Title, dated 3/20/20

A2. _____ Conditioned approval of the vesting tentative map shall confer a vesting right to proceed with development in substantial conformance to the approved vesting tentative map and in accordance with the Subdivision Map Act,

and not be construed as a guarantee of approvals of specific proposed improvements shown. Final grading plans and improvement plans shall be submitted for review and approval by the Community Development and Engineering Departments,

A3. _____ The development shall comply with the City of Clayton Municipal Code policies and standards unless a specific exception is granted thereto or is otherwise modified in these conditions or in the project development agreement.

A4. _____ Prior to the issuance of building permits, design review of the architecture, sound walls, fencing, mailboxes, lighting, any accent paving, addressing, and landscaping for the entire project shall be subject to review and approval by the Community Development Director.

A5. _____ A final and unchallenged approval of this project supersedes previous approvals, if any, that have been granted for this site.

A6. _____ Permits or approvals, whether discretionary or ministerial, cannot be considered if the applicant is not current on fees, reimbursement and/or other payments that are due the City, at the discretion of the Community Development Director.

A7. _____ All required easements or rights-of-way for improvements shall be obtained by the applicant at no cost to the City of Clayton. Advance permission shall be obtained from any property owner or, if required, from easement holders, for any work done within such property or easements.

A8. _____ All easements of record that are no longer required and affect individual lots or parcels within this project shall be removed, if applicable, prior to or concurrently with the recordation of the final map or subsequent separate document as approved by City Engineer.

A9. _____ All advertising signs shall be consistent with the Sign Ordinance or as approved by the Community Development Director.

A10. _____ The approval of the entitlement is for a two-year period, which may be extended for up to an additional two years, or extended as otherwise in conformance with the Subdivision Map Act as it applies to vesting tentative maps. Extension requests must be submitted prior to expiration of the initial approval and must be accompanied by the appropriate filing fee. An extension request is subject to review and approval of the Planning Commission
.

A11. _____ Pursuant to Government Code Section 66474.9, the applicant (including the subdivider or any agent thereof) shall defend, indemnify, and hold harmless the City of Clayton and its agents, officers,

consultants, and employees from any claim, action, or proceeding against the City or its agents, officers, or employees to attack, set aside, void, or annul the City's approval concerning this subdivision map application, which action is brought within the time period provided for in Section 66499.37. The City will promptly notify the subdivider of any such claim, action, or proceeding and cooperate fully in the defense.

A12. _____ The applicant agrees to indemnify, protect, defend, and hold harmless the City and its elected and appointed officials, officers, employees, consultants, and agents from and against any and all liabilities, claims, actions, causes, proceedings, suits, damages, judgements, liens, levies, costs, and expenses of whatever nature, including attorney's fees and disbursements arising out of or in any way relating to the issuance of this entitlement, any actions taken by the City relating to this entitlement, or the environmental review conducted under the California Environmental Quality Act for this entitlement and related actions.

A13. _____ The project is subject to development impact fees and parkland dedication fees for impacts to city services (e.g., police, library, administration, planning, maintenance, and engineering) directly related to impacts of the proposed project, including impact fees and the establishment of the CFD as established in the Municipal Code at the time the application was deemed complete and per AB1600.

A14. _____ All mitigation measures set forth in the Diablo Meadows Subdivision Initial Study/Negative Declaration (ENV 01-20) are hereby incorporated into these Conditions of Approval, as if fully contained herein, except those found infeasible pursuant to Section 15091 of the California Environmental Quality Act Guidelines.

A15. _____ The Developer shall be responsible for the payment of all applicable fees and environmental review costs, including those charged by other governmental agencies including, but not limited to, the California Department of Fish and Wildlife (CDFW) and the U.S. Army Corps of Engineers (USACE).

A16. _____ This application is subject to an initial application fee, which was paid with the application submittal, plus time and material costs if the application review expenses exceed 100% of the initial fee. Any additional fee due shall be paid within 60 days of the application permit effective date or prior to use of the permit, whichever occurs first. The applicant may obtain current costs by contacting the Community Development Director. If the applicant owes additional fees, a bill shall be sent shortly after permit issuance.

Section B Rezoning/Amending

B1. _____ The Vesting Tentative Map, Development Plan, or Tree Removal approval is not deemed effective until the effective date of the ordinance amending the Zoning Map designation for the project site from R-15 to Planned Development District (PD) [ZOA 02-20], and the text to include Diablo Meadows in CMC 17.78.040.D – Exemptions to PD floor area ratios.

Section C Residential Lots

C1. _____ The maximum number of residential lots approved is eighteen (18) single-family residential lots as shown on the Vesting Tentative Map, Development Plan package, and associated plan submittals noted above.

Section D Development Plan/Design Review

D1. _____ 60 days prior to the approval of the grading plan, the applicant shall submit for review and approval by the Community Development Director a revised Development Plan set that depicts the modifications requested herein.

D2. _____ The minimum setback between property lines and structures is five-feet, as shown on the Preliminary Development Plan.

Section E Modifications

E1. _____ Any revisions to the internal circulation plan or lot layout shall be submitted for the review and approval of the Community Development Director and City Engineer at least 60 days prior to approval of the Final Map or issuance of a Grading Permit.

E2. _____ The final map shall show an irrevocable offer of dedication for a public utility easement over the private street as approved by the City Engineer.

E3. _____ Provide all-weather access to the stormwater detention basins.

E4. _____ Lot 13 shall provide a plan 2 home (not a 3 or 2X home) as noted on the Development Plan.

E5. _____ Lot fencing shall consist of 6-foot tall solid wood "good-neighbor" fences. No "double fencing" will be allowed along shared property lines, unless otherwise preferred by adjacent existing neighbors, as approved by the Community Development Director

E6. _____ The applicant shall provide all residential units constructed within 100' of Mitchell Canyon Road with outdoor areas that are exposed to noise levels from Mitchell Canyon Road at levels no greater than 60 dB. This may require sound attenuation along Mitchell Canyon Road, as reviewed and approved the Community Development Director.

E7. _____ Prior to issuance of a grading permit, the grading and landscape plans shall be modified to reflect the trees to remain.

E8. _____ Plan 2 X is an option for lots 7 and 10 only. Lots 1, 3, 5, 9, & 13 may not have a Plan 2X per agreement with neighbors.

Covenants, Conditions and Restrictions

E9. _____A Homeowners Association (HOA) shall be formed for the maintenance of the project's common-area amenities and improvements including but not limited to the private street, streetlights, common-area landscaping, mailboxes, and bio-retention and storm drain facilities, as shown on the vesting tentative subdivision map and Development Plan and as noted below in the covenants, conditions and restrictions (CC&Rs). Maintenance responsibilities and ownership of any open space Parcels upon approval by Community Development Director may be ceded to a successor conservancy entity, which shall be subject to these conditions of approval and the maintenance obligations established through the CC&Rs.

E10. _____ The CC&Rs for the single-family residential lots shall be submitted for the review and approval of the Community Development Director at least 60 days prior to approval of the Final Map. This document shall provide for establishment, ownership, and maintenance of common space (including the area between Mitchell Canyon Road and the property lines), parking, fire protection, tree protection, open space fencing, private lane, drainage maintenance, keeping of pets, and establishment of signs, and it will include conditions as noted:

a. Setbacks for the home shall be as noted and shown on the approved project development plan. Deviations from that plan must be approved by the Community Development Director.
b. The building heights shall not exceed twenty-five (25) feet.
c. Fencing is per the Project Fencing Plan as modified to show a rural mesh fence for the Open Space Fencing, as reviewed and approved by Community Development Director

d. Property owners are responsible for the repair and maintenance of the fences along their respective property lines. The fences shall be maintained in a style consistent with the design approved by the City unless prior written approval is obtained from the Community Development Director and HOA.
e. All fencing located along the Mitchell Canyon Road frontage portion of lots 1 and 18 shall be privacy fencing from the residences gate to rear yard, and rail fence to private drive, as reviewed and approved by the Community Development Director.
f. All fencing shall be 6-foot-tall privacy fencing or sound attenuation as noted in Conditions E5 and E6 excepting lots 1 & 18 as noted in Condition F1d and rural mesh fencing for Open Space as noted in Condition E9.c, as reviewed and approved by the Community Development Director.
g. Property owners shall maintain any gates on their property needed for access to aboveground or underground drainage facilities.
h. All fencing shall be constructed consistent with the approved landscape plans. Emergency access to open space parcels shall not be impeded. Gates to the private open space shall be included as required by the Contra Costa County Fire Protection District (CCCFPD) and must accommodate fire apparatus.
i. Perimeter open space fencing along property lines shall be maintained in good condition by the HOA (or its successor conservancy agency).
j. The HOA shall cut down and remove all weeds, grass, vines, or other growth that is capable of being ignited and endangering property. (304.1.2) California Fire Code (CFC).
k. No provision in the CC&Rs that is included as a result of these Conditions of Approval may be amended without the prior written approval of the City of Clayton.

E11. _____ The CC&Rs shall reference the approved Stormwater Control Plan and Stormwater Operation and Maintenance Plan drainage improvement maintenance plan and the fencing plan program.

E12. _____ The CC&Rs shall clearly note that all subdivision maintenance is to be done by the property owner or the homeowners association.

E13. _____ The CC&Rs shall make an adequate provision or clearly state the funding of all association maintenance responsibilities including but not limited to: the private road, curb, gutter and sidewalk, streetlights, storm drain facilities, common-area landscaping, common-area fencing, mailboxes, etc.

E14. _____ The CC&Rs shall make an adequate provision for funding the maintenance of the C.3 storm drainage facilities and establishing a maintenance cycle standard.

E15. _____ The Developer shall provide homeowners with educational materials regarding proper storage and disposal of household hazardous wastes, including fuels, oils, paints, and solvents. The format and wording of the educational materials shall be approved in advance by the Community Development Director.

Section F CC&R Deed Restrictions

F1._____ The Covenants, Conditions and Restrictions (CC&Rs developed for this project shall include the following deed restrictions. The wording of the following deed disclosures shall be approved by the Clayton Community Development Director and City Attorney. The following deeds are to be recorded concurrently with the final map, and a note on the final map shall be utilized:

a. The final map shall show private open space deed restrictions in Parcels A-E. The restrictions are intended to preserve the open and attractive visual character of the subject area. The restrictions shall prohibit grading (except for remedial grading, drainage improvements, and disking for weed abatement); construction of all buildings and structures; and storage of any motor vehicles, trailers, recreational vehicles, graders, tractors, or similar equipment.
b. Concurrent with recordation of the Final Map, the following statement shall be recorded at the County Recorder's Office for each parcel within the subdivision to notify owners of the lots that they own property adjacent to a quarry and rural areas:
"This document shall serve as notification that you have purchased land near a quarry where you may regularly find equipment using local roads; equipment causing dust; spraying occurring regularly, and noise associated with quarry operations and /or farming, and you should be fully aware of this at the time of purchase."
c. No alterations of Storm Drain Management on parcels A-E shall be allowed, except for activities approved as part of a maintenance, preservation, and/or enhancement plan. The deed restriction shall prohibit, in perpetuity, use and improvements within the Storm Drain Management areas. Specifically, the deed restriction shall prohibit any physical alterations within the Storm Drain Management parcels, including vegetation removal, vegetation planting, landform alterations, or construction of structures or improvements, unless necessary for maintenance or replacement. The deed restriction shall be recorded concurrently with the final map.
d. A deed restriction shall alert each property owner to the possible presence of buried human remains and/or artifacts. The deed restriction shall require that if any of these cultural remains are discovered during-ground disturbing activities, work shall be halted within 50 feet of the discovery until a qualified archaeologist is retained to inspect the discovery. If the archaeologist determines that the find is important, no additional construction shall take place until the find can be fully evaluated according to procedures outlined in Section 106 of the Historic Preservation Act. If human remains are uncovered, the Contra Costa County Coroner shall be notified immediately. If the remains are determined to be Native American, a qualified Native American representative shall be contacted, and the Native American Heritage Commission (NAHC) shall be notified within 24 hours. The most likely descendants (MLD) of the deceased shall be given the chance to make recommendations for the remains. If no recommendations are made

within 24 hours, remains may be reinterred elsewhere. If recommendations are made and not accepted, the NAHC shall mediate the problem.

e. Applicant shall record a statement to run with deeds to property stating that no protected trees are to be removed on the property, excepting those approved to be removed on the project's tree preservation plan, without obtaining a tree permit from the Community Development Department.
f. Applicant shall record a statement to run with deeds to property acknowledging the approved geotechnical report by title, author (firm), and date, calling attention to approved recommendations, and noting that the report is available from the seller.

F2._____ The deeds for all lots shall contain language that prohibits any future land division(s) to create additional home sites.

Section G Community Facilities District

G1. _____ If not already a part of the City's existing Street Lighting District, the Developer shall annex into the districts prior to the issuance of the first certificate of occupancy or sale of any lot, whichever comes first. The annexation requests shall include annual rate adjustments to account for cost-of-living increases. (Note: This existing City-wide Street Light District is separate from Community Facilities District.)

G2. _____ The maintenance of all public and private landscaping and stormwater facilities on or adjacent to the development from the edge of the roadway surface on Mitchell Canyon Road is the responsibility of the homeowner and/or HOA.

G3. _____ Prior to the approval of the final map the developer shall form a Community Facilities District (CFD) that will levy the assessments should the HOA fail to fulfill its requirements. The Developer shall submit all documents required for the formation of the CFD (consistent with the Mello-Roos Community Facilities Act of 1982). Prior to approval of the final map, the Developer shall participate in the formation, including the holding of a ballot election and the levying of assessments of the CFD. The CFD shall include the land area of the entire project. The CFD shall include annual rate adjustments to account for cost-of-living increases. Assessments shall be levied to fund the cost of all operating, maintenance, and repair needs for all of the storm drainage facilities and basin improvements; periodic inspections and testing; roadway maintenance; operating, maintenance, and repair needs for the irrigation and landscaping; periodic inspections costs; City administrative and reporting costs; County levy and collection costs; City overhead charges; and reserve funds for capital replacements and major repairs.

Tree Retention and Landscaping

G4. _____ Prior to occupancy of the first residence, the Developer shall install the common-area landscaping and irrigation generally shown on the landscape plans, subject to City review and approval. Individual lot front-yard landscaping and fencing shall be installed prior to issuance of Certificate of Occupancy for the home on that lot.

G5. _____ Prior to the issuance of a grading permit, a note shall be added to the grading plan that references the April 30, 2020 project's Arborist Report. All trees to be saved and removed shall be marked on the grading plan. The Community Development Department shall review and approve grading, landscape, and improvement plans to ensure adequate measures are taken to protect trees.

G6. _____ **Mitigation Measure 10**. The following tree protection measures shall be implemented pursuant to the recommendations listed in the Arborist Report, to the extent feasible:

- The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the existing trees to be retained, as identified in the Arborist Report;
- A five-foot tree protection zone shall be established from the northern and southern fence lines extending into the development area where no foot, vehicle, storage, or any other intrusion shall be allowed during all construction phases. Prior to installation of new landscaping and fencing along property lines, protected trees on property lines shall not be disturbed within the tree protection zone;
- Landscaping around the protected oak (Tree #37) on-site shall be limited to mowing weeds, installing a layer of cardboard, and maintaining two inches of wood chip mulch on the soil surface;
- Fences along the northern and southern borders shall require absolutely no grading or digging within five radial feet of all protected tree trunks;
- New trees shall be selected, installed, and maintained as per requirements of the City of Clayton; and
- If a new fence line is established for the property, rather than demolishing and reinstalling the existing fence line, four border trees shall be preserved.

G7. _____ **Mitigation Measure 11**. Prior to the initiation of ground-disturbing activities, the potential for root damage shall be minimized through compliance with the following recommendations listed in the arborist report:

- Air spading shall be performed along property lines within the northern and southern portions of the project site;
- All exposed roots shall be pruned using sharp sawzall blades;
- Pruned roots shall be covered with soil.

G8. _____ **Mitigation Measure 12**. Prior to the initiation of ground-disturbing activities, the potential for crown damage shall be minimized through compliance with the following recommendations listed in the arborist report:

- Crowns shall be raised as specified to allow for vehicle and equipment clearance:
- Crowns shall be raised 16 feet above the existing grade;
- 50 percent of live crown ratio shall be maintained;
- Thinning cuts shall be made two inches in diameter or smaller;
- Downward growing branches from zero to 15 feet above grade shall be removed;
- Branches larger than two inches in diameter shall be shortened by heading the branches back to at least half of their diameters; and
- No more than 25 percent of a crown is to be removed in one season.

G9. _____ Three sets of the final landscape and irrigation plans shall be submitted with the grading and improvement plans for review and approval by the Community Development Department, Engineering Department, and the Maintenance Department. These plans shall be approved prior to issuance of grading or encroachment permits. The landscape and irrigation plans shall be prepared by a landscape architect; have overall dimensions of 24 inches by 36 inches; contain approval blocks for the Community Development Director, City Engineer, and Maintenance Department; and show all existing and proposed public utilities within the project limits.

G10._____ Landscaping is to be maintained by the individual property owner(s) and/or the HOA and/or CFD and shall be installed in conformance with the approved plans prior to occupancy of the individual residence(s).

G11._____ Landscaping is subject to inspection by the Maintenance Department and must be guaranteed for one year from the date of acceptance of the subdivision improvements by the City Council.

G12._____ Installation of all irrigation and landscaping shall be performed by a licensed contractor. Open trench inspection of the irrigation installation in City right-of-way is subject to approval of the City Maintenance Department. Prior to the final inspection by the Maintenance Department, the project landscape architect shall submit a letter to the Community Development Director indicating the installation is in accordance with the approved landscape plans.

G13._____ All trees shall be planted at least 10 feet away from any public water, sewer, or storm drain lines, unless otherwise approved by the City or the maintaining agency (i.e. City of Concord). All trees shall be installed with support staking, which shall be removed as the trees are established. All trees planted within 8 feet of a sidewalk, trail, or driveway shall be installed with root barriers.

G14._____ Prior to the turn-over of common-area landscape maintenance responsibilities to the homeowners' association, the project landscape architect shall prepare a letter for submittal to the Community Development Director certifying that landscape irrigation water use is compliant with the City's / County's Water Efficient Landscape Ordinance (WELO) and the City's Water Conserving Landscape Guidelines, Chapter 17.80.

G15._____ The Developer shall maintain all landscaping and other facilities that will become the responsibility of the HOA for one year after the HOA has been formed or a plan for the smooth transition of responsibility has been prepared by the developer and approved by the City Engineer.

G16._____ Landscaping shall be installed in conformance with the approved plans prior to final inspection

G17._____ Plans shall conform with the Water Conserving Landscape Guidelines in Chapter 17.80 of the Zoning Ordinance and applicable stormwater regulations.

Section H Fencing Conditions

H1. _____ The fencing plan shown on the Landscape Plan shall be amended to show the items listed below and submitted for review and approval by the Community Development Department.

a. The 6-foot tall solid wood "good-neighbor" fence proposed along the rear property lines of Lots 1 – 6 shall parallel and not replace the adjacent neighbor's existing cyclone fencing unless otherwise desired by the neighbor (895 Midhill Road). This fence also shall be extended across Parcel E (bio-retention basin). The height or design of the fence along this property line of Parcel E may be modified to accommodate safe sight distance for exiting the driveway of 895 Midhill Road if so desired by the neighbor or directed by the City.
b. The 6-foot tall solid wood "good neighbor" fence proposed along the rear property lines of Lots 12, 13 & 14 shall replace the existing fencing of the home at 33 Herriman Court and shall be located along the shared property-line.

H2. _____ All fences or walls in proximity to Mitchell Canyon Road public right-of-way shall be located at least 1 foot inside the respective parcel's property line as shown on the Final Map.

H3. _____ The developer shall repair all existing open space fencing, as needed, at the completion of grading operations to the satisfaction of the City Engineer.

Section I Grading

I1._____**Mitigation Measure 1**. The project applicant shall be subject to pay all required fees associated with development in Zone 2 of the ECCCHCP/NCCP prior to the start of construction at the current fee rate in place at that time.

I2._____**Mitigation Measure 2**. Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as supporting suitable breeding or denning habitat for San Joaquin kit fox. The surveys shall establish the presence or absence of San Joaquin kit foxes and/or suitable dens and evaluate use by kit foxes in accordance with USFWS survey guidelines (U.S Fish and Wildlife Service, 1999).

The preconstruction survey shall be conducted within 30 days of ground disturbance. On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 250-foot radius from the perimeter of the proposed footprint to identify San Joaquin kit foxes and/or suitable dens. Adjacent parcels under different land ownership will not be surveyed. The status of all dens shall be determined and mapped. Written results of the preconstruction survey shall be submitted to USFWS within 5 working days after survey completion and before the start of ground disturbance. Concurrence is not required prior to initiation of covered activities.

Avoidance and Minimization Measures. If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the project applicant shall comply with the following avoidance and minimization requirements:

- If a San Joaquin kit fox den is discovered within the proposed development footprint, the den shall be monitored for three days by a USFWS-CDFW-approved biologist using a tracking medium or an infrared beam camera to determine if the den is currently being used.
- Unoccupied dens should be destroyed immediately to prevent subsequent use.
- If a natal or pupping den is found, USFWS and CDFW shall be notified immediately. The den shall not be destroyed until the pups and adults have vacated and further consultation with USFWS and the CDFW has been performed.
- If kit fox activity is observed at the den during the initial monitoring period, the den shall be monitored for an additional five consecutive days from the time of the first observation to allow any resident animals to move to another den while den use is actively discouraged. For dens other than natal or pupping dens, use of the den can be discouraged by partially plugging the entrance with soil such that any resident animal can easily escape. Once the den is determined to be unoccupied, the den may be excavated under the direction of the biologist. Alternatively, if the animal is still present after five or more consecutive days of plugging and monitoring, the den may have to be excavated when, in the judgement of a

biologist, it is temporarily vacant (i.e., during the animal's normal foraging activities).

- If San Joaquin kit fox dens are identified in the survey area outside the proposed disturbance footprint, exclusion zones around each den entrance or cluster of entrances shall be demarcated. The configuration of exclusion zones shall be circular, with a radius measured outward from the den entrance(s). No covered activities shall occur within the exclusion zones. Exclusion zone radii for potential dens shall be at least 50 feet and will be demarcated with four to five flagged stakes. Exclusion zone radii for known dens will be at least 100 feet and will be demarcated with staking and flagging that encircles each den or cluster of dens but does not prevent access to the den by the kit fox.

I3._____**Mitigation Measure 3**. Preconstruction Survey. Prior to any ground disturbance related to covered activities, a USFWS/CDFW-approved biologist shall conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The survey shall establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).

On the parcel where the activity is proposed, the biologist shall survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership shall not be surveyed. Surveys shall take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls shall be identified and mapped. Surveys shall take place no more than 30 days prior to construction. During the breeding season (February 1 to August 31), surveys shall document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1 to January 31), surveys shall document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results shall be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization Measures. If burrowing owls are found during the breeding season (February 1 to August 31), the project proponent shall avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance shall include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 to January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance shall include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur shall be established around each occupied burrow (nest site). Buffer zones of 160 feet shall be established around each burrow being used during the nonbreeding season. The buffers shall be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation shall be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

I4._____**Mitigation Measure 4**. Prior to implementation of covered activities, a qualified biologist shall conduct a preconstruction survey to establish whether nests of golden eagles are occupied. If nests are occupied, minimization requirements and construction monitoring shall be required.

Covered activities shall be prohibited within 0.5-mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity shall coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction monitoring shall focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the Urban Limit Line, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring shall ensure that direct effects to golden eagles are minimized.

I5._____**Mitigation Measure 5**. Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

I6._____**Mitigation Measure 6**. If work is scheduled to take place between February 1 and August 31, a pre-construction nesting bird survey shall be conducted by a qualified biologist within 14 days of construction. The findings of the survey shall be submitted to the Community Development Department. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

I7._____**Mitigation Measure 7**.The proposed project shall be designed in compliance with stream setback requirements set forth in Conservation Measures 1.7 and 2.12 of the ECCCHCP/NCCP, including the following avoidance and minimization measures:

- All wetlands to be avoided by covered activities shall be temporarily staked in the field by a qualified biologist, and a 25-foot buffer zone shall be implemented along the seasonal wetland swale and between the ephemeral streams and development activities.
- Herbicides shall not be applied within the buffer area around ephemeral streams or the seasonal wetland swale unless needed to control serious invasive plants. In such a case, herbicides that have been approved by the EPA for use in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides shall be applied to the ruderal grassland within the buffer area during the dry season to control non-native invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.
- Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of the ephemeral streams or the seasonal wetland swale shall be trained by a qualified biologist in the avoidance and minimization measures set forth by this IS/MND and the permit obligations of the project proponents working under the ECCCHCP.

I8._____**Mitigation Measure 8**.Vehicles and equipment shall be parked on pavement, existing roads, and previously disturbed areas. No construction or maintenance vehicles shall be refueled within 200 feet of ephemeral streams or the seasonal wetland swale unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill. In addition, trash generated during project construction shall be promptly removed from the site.

I9._____**Mitigation Measure 9**. The proposed project shall be implemented in compliance with the hydrologic maintenance and erosion minimization measures set forth in Conservation Measures 1.10 and 2.12 of the ECCCHCP/NCCP. Standard construction best management practices (BMPs) shall be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs shall include the use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences, or other technologies along the perimeter of

the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

Appropriate erosion-control measures (e.g. fiber rolls, filter fences, vegetative buffer strips) shall be used on site to reduce siltation and runoff of contaminants into the ephemeral streams or the seasonal wetland swale. Filter fences and mesh shall be of material that shall not entrap reptiles or amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Fiber rolls used for erosion control shall be certified as free of noxious weed seed. Seed mixtures applied for erosion control shall not contain invasive non-native species and shall be composed of native species or sterile non-native species.

I10. _____ **Mitigation Measure 14**. Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.

I11. _____ **Mitigation Measure 15**. Pursuant to State Health and Safety Code §7050.5(c) and State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the Most Likely Descendant (MLD). The MLD shall work with the contractor to develop a program for re-internment of the human remains and any associated artifacts. Additional work shall not take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.

I12. _____ **Mitigation Measure 16**. Prior to approval of the improvement plans for the project, all recommendations from the Geotechnical Report prepared for the project by Stevens, Ferrone, & Bailey Engineering Company, Inc (2020) shall be incorporated into the improvement plans to the satisfaction of the City Engineer. In addition, the applicant shall retain a California Registered Geotechnical Engineer to perform field observations during grading. Compliance with the recommendations of the Geotechnical Engineer shall be provided to the City Engineer.

I13. _____ **Mitigation Measure 17**. Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:

- Hydro-seeding;
- Placement of erosion control measures within drainage ways and ahead of drop inlets;
- The temporary lining (during construction activities) of drop inlets with "filter fabric";
- The placement of straw wattles along slope contours;
- Use of a designated equipment and vehicle "wash-out" location;
- Use of siltation fences;
- Use of on-site rock/gravel road at construction access points; and
- Use of sediment basins and dust palliatives.

I14. _____ **Mitigation Measure 18**. Prior to initiation of any ground disturbance activities, the applicant shall hire a licensed well contractor to obtain a well abandonment permit from Contra Costa Health Services and properly abandon the on-site well to the satisfaction of the Contra Costa Health Services Department. Proof of abandonment shall be provided to the City of Clayton Community Development Department and City Engineer.

I15. _____ **Mitigation Measure 19**. During grading and construction, the project contractor shall ensure that the following measures are implemented:

- Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;
- The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and
- All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.

I16. _____ Prior to issuance of a grading permit, The Grading Plan shall be amended as follows:

a. A licensed surveyor or engineer shall survey the locations and limits of the trunk and dripline of all trees to be retained that could be affected by any work during

project construction. The locations and limits shall be shown on the grading plans and appropriate construction and plot plans.

b. All disturbed slopes steeper than 10% shall be track-walked for surface compaction, covered with jute netting and hydroseeded, or stabilized with other standard techniques acceptable to the City Engineer.
c. All new graded slopes must be configured to undulate and avoid relatively flat planes or sharp transitions to un-graded areas.
d. All required side setbacks shall contain at least 5 feet of flat, unoccupied area. "Flat" means a cross-slope between 2% and 10%. "Unoccupied" means no encroachments by fireplaces, building pop outs (with or without a foundation), air conditioning pads, and the like.
e. Two feet of flat area shall be provided on the graded portions of properties between a property or right-of-way line and the top of slope.
f. Any retaining walls in the project shall be constructed of segmental units (a.k.a., keystone), masonry block, or concrete. All retaining walls visible from street or sidewalk areas shall be covered with a stone fascia. Retaining walls greater than 3 feet in height shall be designed by a licensed engineer.
g. Signature blocks shall be provided for the Community Development Director and the City Engineer.

I17. _____ The Developer shall identify the BMPs for protection of air quality to minimize the generation of dust during construction. The Bay Area Air Quality Management District's Basic Construction Measures shall be included within the project grading plan and shall be approved prior to issuance of project grading permits:

a. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
b. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
c. All vehicle speeds on unpaved roads shall be limited to 15 mph.
d. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
e. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points.
f. All construction equipment shall be maintained and properly tuned in accordance with manufacturers specifications. All equipment shall be checked by a certified visible emissions evaluator.
g. A publicly visible sign shall be posted with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond

and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Section JStreet Conditions

J1. _____ Parking shall be prohibited along the south side of the project road and along both sides of the road by lots 8-10. The parking prohibition shall be indicated by painting the face and top of curb red.

J2. _____ The developer shall complete all street improvements across the Mitchell Canyon Road frontage of this property. Any existing street, sidewalk, curb, gutter, or other existing improvement which in the sole opinion of the City Engineer is damaged - either on or adjacent to - the project site, shall be repaired by the Developer to the satisfaction of, and in the manner required by, the City Engineer.

J3. _____ The name of the project private road shall be subject to review and approval in accordance with City Council Resolution No. 68-2003.

J4. _____ All mailbox locations shall be constructed and grouped in accordance with U.S. Postal Service standards, and the grouping of mailboxes shall be architecturally treated to reduce massing and visual impact. All mailbox locations are subject to review and approval of the Community Development Department and the U.S. Postal Service.

J5. _____ The Developer shall design and install any traffic calming/control devices such as rumble strips, a flashing yellow light (on an interim basis), and/or a traffic signal (on a permanent basis at or east of the project entrance road) in accordance with the project's construction site best management plan, and the Traffic Impact Analysis prepared for the development per AB 1600.

J6. _____The word, or term, "local", as utilized in these Conditions of Approval, does not define nor refer to any street and/or roadway designation. The word, or term, "local" shall be defined as: of, relating to, or characteristic of a particular place**:** not general or widespread.

Section K Drainage Conditions

K1. _____A complete hydrology and hydraulic report shall be prepared for the entire area within the boundary of the Final Map. The hydrology and hydraulic report shall include, but not necessarily be limited to:

a. A complete and thorough hydrology and hydraulic study of the existing condition of the area encompassed by the boundary of the Final Map to determine the volume and velocity of all current storm water run-off exiting the development site and entering the natural drainage course that post-construction storm water run-off will be discharged to. Study shall include mapping of hydrologic catchment areas and all calculations, or modeling, required to determine the current storm water run-off volume and velocity.
b. A complete and thorough hydrology and hydraulic study of the built condition of the area encompassed by the boundary of the Final Map to determine the volume and velocity of all storm water run-off exiting the fully built environment. Study shall include mapping of hydrologic catchment areas and all calculations, or modeling, required to determine the storm water run-off volume and velocity from the fully built-out environment.

K2. _____ The post construction storm water run-off volume and velocity as determined in L1.b. (above) of the built condition of the area encompassed by the boundary of the Final Map, shall not exceed the volume nor the velocity of the pre-construction storm water run-off volume and/or velocity of the existing condition of the area encompassed by the boundary of the Final Map as calculated in L1.a (above).

K3. _____ The applicant shall enter into reimbursement agreements with Contra Costa County and Contra Costa County Flood Control District and pay all fees, costs and/or reimbursements to the County and District for the following:

a. Contra Costa County Flood Control District plan review and checking of all mapping, plans, calculations and/or modeling utilized to determine the pre- and post-construction storm water run-off volumes and velocities and to determine that post construction storm water run-off volume and velocity does not exceed pre construction storm water run-off volume nor velocity.
b. Contra Costa Clean Water Program (CCCWP), or CCCWP consultant, plan review and checking of all mapping, plans, calculations and/or modeling utilized to determine the post construction storm water run-off volume and velocity and to determine that all NPDES MRP-2.0 C.3 LID post construction storm water run-off requirements are being met or exceeded.

K4. _____ Stormwater detention basins shall be sized and constructed to accommodate stormwater flows created by the project. Stormwater detention basins shall be sized according to Contra Costa Flood Control requirements and standards. Storm water detention basins and NPDES MRP-2.0 C.3 Low Impact Development (LID) facilities shall not be combined. NPDES MRP-2.0 C.3 LID requirements shall be met on-site on the individual lots and flood control storm water retention/detention requirements may be conformed to utilizing a project-wide approach and retention/detention facility.

K5. _____ Applicant shall utilize the Contra Costa Clean Water Program C.3 Guidebook (https://www.cccleanwater.org/development-infrastructure/development/stormwater-c-3-guidebook)

K6. _____ All ditches for conveying stormwater runoff shall be constructed of tan-colored reinforced concrete and shall have a maximum longitudinal slope of 10%. All stormwater runoff from impervious areas shall be treated and contaminants removed prior to discharge from the site or into any watercourse or channel. Design of storm water detention and/or storm water treatment facilities shall be subject to the review and approval of the City Engineer and Community Development Director and shall include, but not be limited to, the installation of drywells for percolation.

K7. _____ Prior to issuance of a grading permit, the application shall submit a final Stormwater Control Plan for review and approval by the City Engineer. Prior to the issuance of the first Certificate of Occupancy, a separate Operation and Maintenance Plan shall be submitted for review and approval. The applicant shall enter into a Stormwater Operations and Maintenance and Right of Entry Agreement with the City indicating that the homeowners' association will maintain all on-site stormwater management facilities. The Operation and Maintenance Agreement will reflect that all City personnel or contracted forces shall have the right of access to conduct inspections of all on site drainage facilities and maintenance thereof should the HOA fail in its responsibilities.

K8. _____ The Mosquito and Vector Control District and its contractors shall have the right of access to conduct inspections and maintenance of all on-site drainage devices.

K9. _____ All roofs shall have rain gutters with rainwater leaders that directly discharge into an on-lot underground system which discharges through the face of curb at streets or into a concrete-lined ditch or storm drain inlet.

K10. _____ The improvement plans shall reflect that all on-site storm drain inlets shall be labeled "No Dumping — Drains to Creek" using thermoplastic stenciling or equivalent permanent method, subject to City approval,

K11. _____ The Developer shall comply with all rules, regulations, and procedures of the National Pollution Discharge Elimination System (NPDES) as promulgated by the California State Water Resources Control Board (SWRCB), the San Francisco Bay Area Regional Water Quality Control Board (RWQCB), and the Contra Costa County Clean Water Program (CCCWP). Project and site management and site design shall include BMPs during all construction and post-construction phases. BMP's shall be constructed and implemented providing for the prevention of and elimination of storm water pollutants entering into any Municipal

Separate Storm Sewer System (MS4) or to any natural watercourse to the maximum extent practicable.

K12. _____ The Developer shall provide proof that a "Notice of Intent" has been filed with the State Regional Water Quality Control Board. The proof shall be in the form of the WDID Number assigned to this project by the State Water Resources Control Board. The WDID Number shall be included on the cover sheets of all plan sets approved for construction of this project. Prior to acceptance of the subdivision the Developer shall provide proof to the City that the "Notice of Intent" has been closed out by the State Regional Water Quality Control Board.

K13. _____ Prior to the issuance of a grading permit, the Developer shall prepare and submit to the City a Stormwater Pollution Prevention Plan (SWPPP) in conformance with the requirements set forth by the RWQCB. The SWPPP shall include pre-construction, construction, and post-construction BMPs. The SWPPP shall also include, but not be limited to:

a) Sampling (pre-construction, during construction, and post-construction) of the stormwater outfall at Mount Diablo Creek for sediments in accordance with State Construction General Permit (CGP) regulations.
b) Hydro-seeding or landscaping of all disturbed areas.
c) BMPs, including landscaping or hydro-seeding of front and rear yards prior to acceptance of the subdivision.
d) A site spill response plan.
e) An erosion control plan including such items as installation of berms, silt fences, sedimentation basins and other measures to minimize off-site transport of soil. Topsoil should be stockpiled during grading and distributed over the ground surface after grading has been completed.
f) Location of construction staging and materials storage areas.
g) On-site retention and treatment of stormwater through the use of water quality basins, grassy swales, biofilters and/or other methods in conformance with the CCCWP C.3 Guidebook and acceptable to the City Engineer and the RWQCB. The project shall mitigate runoff quantities to the extent currently required by the City's NPDES Permit and Municipal Regional Permit (MRP-2.0).
h) Installation of structural treatment facilities to remove total suspended solids and total petroleum hydrocarbon products to the extent currently required by the RWQCB, or to the satisfaction of the City Engineer. The methods and designs shall be shown on the grading and improvement plans, as appropriate, for review and approval by the City Engineer.

K14. _____ Prior to commencement of any site work that will result in a land disturbance of one acre or more, the Developer shall provide evidence to the City that the requirements for a stormwater State CGP have been met.

K15. _____ The Developer shall ensure that all project contractors shall conform to the requirements of the "Best Management Practices for Construction Sites" required by the City, including detention and/or filter materials to preclude an increase in water quantity and quality impacts from debris and sediments entering the stormwater system over "non-development" conditions.

K16. _____ The Developer shall offer for dedication to the City easements for drainage improvements. The volume and rate of stormwater runoff from the site shall not exceed the amounts allowed by Section C.3 of the City's Contra Costa Municipal Regional Permit (MRP-20). The project shall bear the financial responsibility of the construction and perpetual maintenance (including monitoring and reporting) of these facilities with a funding mechanism acceptable to the City that addresses costs for capital replacement, inflation, and administration.

K17. _____ The Developer shall prepare an operations and maintenance plan, including a schedule for ongoing maintenance and replacement, for the stormwater facilities. The plan shall be submitted for review and approval of the City Engineer prior to recordation of the final map.

K18. _____ The quantity and rate of stormwater runoff may take into consideration any applicable comments from the Contra Costa County Flood Control and Water Conservation District (FC District) to ensure that the quantity and creation of runoff from the site does not exceed historic rates and does not adversely impact downstream drainage facilities.

K19. _____ The Developer shall provide all project property owners with Clean Water Program educational materials.

K20. _____ The Developer shall construct the County Standard Plan Headwall Structure at the outfall or as reviewed and approved by the City Engineer.

Section L Utility Conditions

L1. _____ The Developer shall dedicate, to the City of Clayton, an 8-foot-wide public utility easement along project's entire frontage on the west side of Mitchell Canyon Road.

L2. _____ Sanitary sewers shall comply with the City of Concord standards, which allow a maximum depth of 24 feet from finished grade to invert as approved by the City of Concord.

L3. _____ The Developer shall connect to the sanitary sewer system, obtain applicable permits, and pay applicable fees required by the City of Concord Public Works Department.

L4. _____ The width of access and maintenance easements for underground facilities shall be twice the depth of the facility with a minimum width of 10 feet.

L5. _____ Streetlights shall be provided on the project road. Streetlight standards and photometrics showing levels of illumination shall be submitted for the review and approval of the Community Development Department. "Cut-off' fixtures and downward-oriented fixtures shall be used to minimize spillover of lighting into residences. All street lighting shall be LED.

L6. _____ All street lighting shall be installed and activated prior to occupancy of the first residence.

L7. _____ Developer shall pay for the cost of installation, activation, and electrical use until final acceptance of subdivision improvements by the City Council

L8. _____ The Developer shall prepare a construction traffic plan for the review and approval of the City Engineer which addresses the following issues:

a) All construction traffic associated with the development of the proposed subdivision safely enters and exits the site from Mitchell Canyon Road.
b) Temporary warning devices (e.g., changeable message boards) shall be located north and south of the project site entrance to alert motorists of turning movements by construction vehicles.

L9. _____ Prior to the issuance of any permits, the Developer shall provide an interest-bearing, non-refundable cash deposit or cash bond, in an amount to be determined by the City Engineer, but no less than one hundred (100) percent of the engineer’s estimate for use by the City in the completion of the improvements as shown on the improvement plans at some undetermined time in the future.

L10. _____ Prior to approval of any grading or construction plans or maps, the Developer shall provide any necessary rights of entry, drainage easements, slope and/or grading easements, as may be required by the City Engineer, from adjoining property owners.

L11. _____ All work shall be designed and constructed in accordance with the Municipal Code, as well as the City's Standard Plans, Contra Costa County plans where applicable, and Specifications.

L12. _____ Upon recording of the final map, the City shall be given a full size, reproducible, Mylar photocopy of the recorded map and an electronic file of the map in a form which can be imported into AutoCAD, and configured as directed by the City Engineer.

L13. _____ Upon completion of the improvements and prior to City Council acceptance, the City shall be given a full size, reproducible copy of the improvement plans, and an electronic version in AutoCAD, annotated to reflect any changes that occurred during construction and signed by the Project Engineer, on USB key or other means acceptable to the City Engineer.

L14. _____ Should the construction of any offsite improvements shown on the tentative map or required in these conditions of approval, necessitate the acquisition of sufficient title or interest in lands not controlled by the Developer, the Developer shall make a good faith effort to obtain the necessary title or interest prior to the filing of the final map pursuant to Section 66457 of the Subdivision Map Act. If the Developer is unable to obtain the necessary title or interest and has demonstrated a good faith effort to the City's satisfaction (including, but not limited to, preparation of an appraisal and submittal of a bona fide offer based on the appraisal), the City shall approve the final map, and, within 120 days of filing of the final map, obtain the necessary title or interest in accordance with Section 66462.5 of the Subdivision Map Act. The Developer shall pay for all costs, including City's legal, overhead, consultant and administrative costs, involved in the acquisition of the necessary title or interest

L15. _____ At the City's sole discretion, if the Developer has made the good faith effort described above and was not able to obtain the required rights of entry or easements, in lieu of the City obtaining the necessary rights of entry and/or easements, the City may allow the proposed improvements to be modified to eliminate the need for such rights of entry and/or easements. Should the City allow such modifications and prior to the filing of the final map, the Developer shall provide a non-refundable cash deposit or cash bond, in an amount to be determined by the City Engineer, for use by the City in the completion of the improvements as shown on the tentative map at some time in the future.

L16. _____ All existing and new utility lines required to serve, and serving, the subdivision shall be underground, including those crossing Mitchell Canyon Road, if any. Utility poles shall not be allowed within the boundaries of this subdivision. Utility undergrounding shall begin, and end, at the nearest utility pole outside of the subdivision boundaries that complies with all requirements of a pole that utilities can drop from or rise to in accordance with all PG&E and other utility and communication company requirements.

Section M Construction Plans

M1 _____ All construction plan sets shall include all project Conditions of Approval listed in their entirety on the first plan sheet(s) following the cover sheet of the plan set. Conditions of Approval shall be plotted clearly and legibly in no smaller than Arial size 12 font. All Conditions of Approval shall be listed in the same order as shown in the final approved Conditions of Approval enacted by the Clayton

City Council. Conditions of Approval shall include all Sections, Section numbers, and Section titles.

ADVISORY NOTES

THE FOLLOWING INFORMATION DOES NOT CONSTITUTE CONDITIONS OF APPROVAL. IT IS PROVIDED TO ALERT THE APPLICANT TO LEGAL REQUIREMENTS OF THE CITY AND OTHER PUBLIC AGENCIES TO WHICH THIS PROJECT MAY BE SUBJECT.

NOTICE OF 90-DAY OPPORTUNITY TO PROTEST FEES, DEDICATIONS, RESERVATIONS, OR OTHER EXACTIONS PERTAINING TO THE APPROVAL OF THIS PERMIT.

This notice is intended to advise the applicant that pursuant to Government Code Section 66000, et seq., the applicant has the opportunity to protest fees, dedications, reservations, and/or exactions required as part of this project approval. The opportunity to protest is limited to a 90-day period after the project is approved.
The ninety (90) day period, in which you may protest the amount of any fee or the imposition of any dedication, reservation, or other exaction required by this approved permit, begins on the date this permit was approved. To be valid, a protest must be in writing pursuant to Government Code Section 66020 and delivered to the Community Development Department within 90 days of the approval date of this permit.

A. The applicant/owner should be aware of the expiration dates and renewing requirements prior to recording the Final Maps.
B. Comply with the requirements of the City of Concord regarding sanitary sewer collection, conveyance, operation and maintenance (https://www.cityofconcord.org/221/Sewer-Information). CITY OF CONCORD (INCLUDING CITY OF CLAYTON) SERVICE AREA PROJECTS - Projects that are located within the City of Concord's service area, which will also include the City of Clayton, must submit for review and approval of the project to the City of Concord. External lateral sewers originating from buildings or facilities will be plan checked and inspected by the City of Concord's Building Division staff. Also, the City of Concord will provide the permit for such work. CCCSD will not plan review or inspect the plumbing installation. Applicants must adhere to the CCCSD Standard Specifications for Design and Construction and the City of Concord Standard Specifications (PDF) (See Section 71 on Page 17)
C. Comply with the requirements of the Contra Costa Water District.
D. Comply with the requirements of the Consolidated Fire Protection District.
E. Comply with the requirements of the Health Services Department, Environmental Health Division.
F. Comply with the requirements of the Contra Costa County Building Inspection Department. Building permits are required prior to the construction of the proposed residences and any retaining wall(s) in excess of three-feet in height.

G. This project may be subject to the requirements of the CDFW. It is the applicant's responsibility to notify the CDFW, P.O. Box 47, Yountville, California 94599, of any proposed construction within this development that may affect any fish and wildlife resources, per the CDFW Code.
H. This project may be subject to the requirements of the USACE. It is the applicant's responsibility to notify the appropriate district of the USACE to determine if a permit is required, and if it can be obtained.

End of Diablo Meadows Condition of Approval.

NOTICE OF PUBLIC HEARING
CITY COUNCIL REGULAR MEETING
CITY OF CLAYTON

PUBLIC HEARING FOR A MITIGATED NEGATIVE DECLARATION AND A VESTING TENTATIVE TRACT MAP AND A ZONING MAP AMENDMENT AND A PLANNED DEVELOPMENT AND A DEVELOPMENT PLAN AND A TREE REMOVAL FOR THE CONSTRUCTION OF 18 SINGLE-FAMILY DETACHED RESIDENTIAL UNITS BY THE APPLICANT DENOVA HOMES, INC. LOCATED WEST OF MITCHELL CANYON ROAD AND NORTH/WEST OF HERRIMAN COURT AND APNS 121-090-011 AND 121-090-016.

NOTICE IS HEREBY GIVEN that the Clayton City Council will hold a public hearing at its meeting of Tuesday, February 2, 2021. The City Council meeting begins at 7:00 p.m. Pursuant to Executive Order N-29-20, this meeting may be conducted by teleconference and there will be no in-person public access to the meeting location.

The purpose of the hearing is to consider approvals that include: 1) Initial Study/Mitigated Negative Declaration; 2) Zoning Map Amendment; 3) Development Plan; 4) Vesting Tentative Map; and 5) Tree Removal Permit.

ENVIRONMENTAL DETERMINATION: An Initial Study has been prepared pursuant to the guidelines of the California Environmental Quality Act and a Mitigated Negative Declaration has been prepared with Mitigation Measures that will reduce the potential adverse impacts of the development to Less Than Significant.

REVIEW OF INFORMATION: The application and related documents are available for public review via the city website and via email by contacting the project planner Christine Gregory, AICP, Planner at cgregory@grounddc.com. In addition, City staff is available to answer questions by telephone at 925-673-7343 or email at mfeske@ci.clayton.ca.us between the hours of 9:00 a.m. And 5:00 p.m., Monday through Friday.

COMMENT ON THIS APPLICATION: Response to this notice may be made as follows:

- Submit your public comment to the City Council electronically. Material may be emailed to mfeske@ci.clayton.ca.us. Transmittal prior to the start of the meeting is required. Any correspondence received during or after the meeting will be distributed to the City Council and retained for the official record.
- Written comment can be made to the City Council by email at mfeske@ci.clayton.ca.us or letter to:

Matthew Feske
Community Development Director
City of Clayton
6000 Heritage Trail
Clayton, CA 94517

Any challenge of the proposal in court may be limited to raising only those issues raised at the public hearing described in this notice or in written correspondence delivered to the Community Development Director at or prior to the public hearing (Government Code Section 65009(b)(2)).

CITY OF CLAYTON
Founded 1857 .. Incorporated 1964
COMMUNITY DEVELOPMENT DEPARTMENT
6000 Heritage Trail, Clayton, CA 94517
PHONE: 925-673-7300 – FAX: 925-5672-4917

July 29, 2020

Raymond Hitchcock, Chairperson
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Subject: Formal Notification for Tribal Consultation – City of Clayton, Diablo Meadows Project

Mr. Raymond Hitchcock:

The City of Clayton is the lead agency for the Diablo Meadows Project (proposed project). This notification is being forwarded to Native American tribes that are understood to be traditionally and culturally affiliated with the project area pursuant to the statutory requirements of Senate Bill (SB) 18 (Chapter 905, Statutes of 2004) and Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014). The City is in the process of determining the appropriate scope and content of the environmental analysis to be prepared for the proposed project in accordance with the California Environmental Quality Act (CEQA). Pursuant to Public Resources Code Section 21080.3.1(b), under AB 52, tribes have 30 days to request consultation. Tribes have 90 days to request consultation with the City under SB 18 (Government Code §65352.3 et seq).

The proposed project is located on two parcels (APN 121-090-011, -016) directly west of Mitchell Canyon Road in the City of Clayton. The front-half of the 8.68-acre site is relatively flat with scattered trees. The site then slopes downward to the west to an historical drainage and then slopes up westward again. The site is undeveloped with one small shed on-site that has never been occupied. The project site is bound by Mitchell Canyon Road to the east, the City of Concord boundary to the west, Cemex Clayton Quarry to the south, and single-family residences to the north, south, east, and west. The City of Clayton General Plan designates the site as Single-Family Medium Density (3.1 – 5.0 du/net acre). The site is zoned R-15. The project will require approval of following entitlements: Rezone; Development Plan Permit; Vesting Tentative Map; and Tree Removal Permit.

The proposed project will subdivide the two parcels into 18 lots for single-family residences and the lots will range in size from 5,000-square feet (sf) to 7,000-sf. The proposed project will also develop 18 one-story, single-family residence units which will include four different unit layouts. Plan 1 is for a 1,580-sf three-bedroom, two-bathroom unit with a 347-sf accessory dwelling unit (ADU); Plan 2 consists of a 1,952-sf three-bedroom, 2.5-bathroom unit; Plan 2X consists of a 2,580-sf four-bedroom, three-bathroom unit; and Plan 3 consists of a 2,117-sf four-bedroom, 2.5-bathroom unit. Primary site access will be from Mitchell Canyon Road to the east and will terminate in a hammerhead cul-de-sac. Four acres, located west of the proposed lots, will remain as preserved natural open space. Development of the site will require the removal of 38 trees; however, one large blue oak tree will be preserved and incorporated into Lot 7. All trees within the open space will be unaffected. The project will require a rezone to PD (Planned Development).

If the Wilton Rancheria would like to consult on the proposed project, please submit a request for consultation to the City by email at mfeske@ci.clayton.ca.us or by mail at the following address:

Matthew Feske
Community Development Director
City of Clayton Community Development Department
6000 Heritage Trail
Clayton, CA 94517

Please feel free to contact me within 90 days from receipt of this notice if you desire a formal consultation, or if you have any questions about this project or our planning process. Thank you for your time and attention to this matter.

Sincerely,

Matthew Feske
Community Development Director, City of Clayton
(925) 673-7343

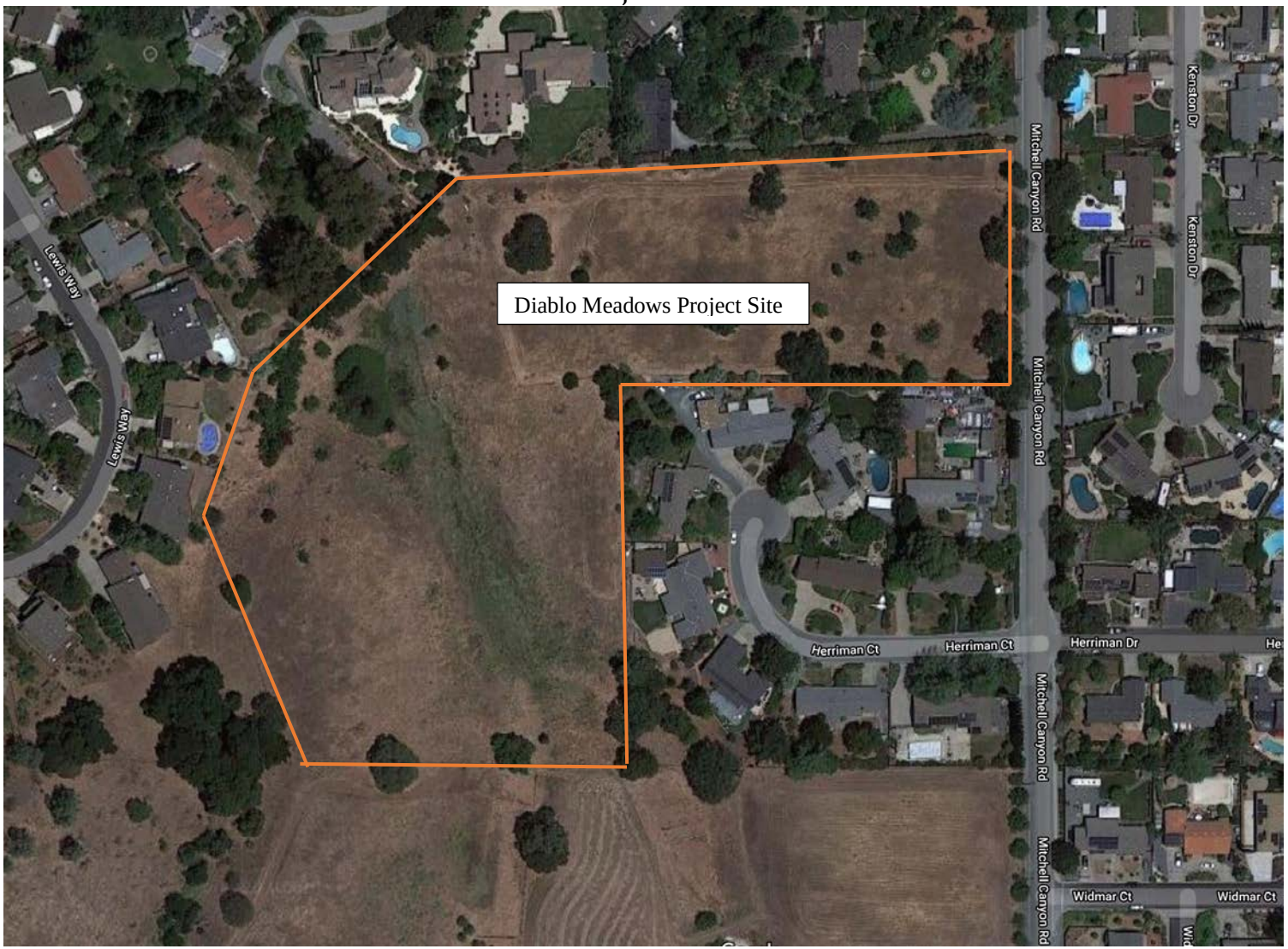
Attachments:

1. Topographic Map
2. Project Site Boundaries

Attachment 1
Topographic Map



Attachment 2
Project site



CITY OF CLAYTON
Founded 1857 .. Incorporated 1964

COMMUNITY DEVELOPMENT DEPARTMENT
6000 Heritage Trail, Clayton, CA 94517
PHONE: 925-673-7300 – FAX: 925-5672-4917

July 29, 2020

Irenne Qwierlein, Chairperson
Amah Mutsun Tribal Band of Mission San Juan Bautista
789 Canada Road
Woodside, CA 94062

Subject: Formal Notification for Tribal Consultation – City of Clayton, Diablo Meadows Project

Ms. Irenne Qwierlein:

The City of Clayton is the lead agency for the Diablo Meadows Project (proposed project). This notification is being forwarded to Native American tribes that are understood to be traditionally and culturally affiliated with the project area pursuant to the statutory requirements of Senate Bill (SB) 18 (Chapter 905, Statutes of 2004) and Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014). The City is in the process of determining the appropriate scope and content of the environmental analysis to be prepared for the proposed project in accordance with the California Environmental Quality Act (CEQA). Pursuant to Public Resources Code Section 21080.3.1(b), under AB 52, tribes have 30 days to request consultation. Tribes have 90 days to request consultation with the City under SB 18 (Government Code §65352.3 et seq).

The proposed project is located on two parcels (APN 121-090-011, -016) directly west of Mitchell Canyon Road in the City of Clayton. The front-half of the 8.68-acre site is relatively flat with scattered trees. The site then slopes downward to the west to an historical drainage and then slopes up westward again. The site is undeveloped with one small shed on-site that has never been occupied. The project site is bound by Mitchell Canyon Road to the east, the City of Concord boundary to the west, Cemex Clayton Quarry to the south, and single-family residences to the north, south, east, and west. The City of Clayton General Plan designates the site as Single-Family Medium Density (3.1 – 5.0 du/net acre). The site is zoned R-15. The project will require approval of following entitlements: Rezone; Development Plan Permit; Vesting Tentative Map; and Tree Removal Permit.

The proposed project will subdivide the two parcels into 18 lots for single-family residences and the lots will range in size from 5,000-square feet (sf) to 7,000-sf. The proposed project will also develop 18 one-story, single-family residence units which will include four different unit layouts. Plan 1 is for a 1,580-sf three-bedroom, two-bathroom unit with a 347-sf accessory dwelling unit (ADU); Plan 2 consists of a 1,952-sf three-bedroom, 2.5-bathroom unit; Plan 2X consists of a 2,580-sf four-bedroom, three-bathroom unit; and Plan 3 consists of a 2,117-sf four-bedroom, 2.5-bathroom unit. Primary site access will be from Mitchell Canyon Road to the east and will terminate in a hammerhead cul-de-sac. Four acres, located west of the proposed lots, will remain as preserved natural open space. Development of the site will require the removal of 38 trees; however, one large blue oak tree will be preserved and incorporated into Lot 7. All trees within the open space will be unaffected. The project will require a rezone to PD (Planned Development).

If the Amah Mutsun Tribal Band of Mission San Juan Bautista would like to consult on the proposed project, please submit a request for consultation to the City by email at mfeske@ci.clayton.ca.us or by mail at the following address:

Matthew Feske
Community Development Director
City of Clayton Community Development Department
6000 Heritage Trail
Clayton, CA 94517

Please feel free to contact me within 90 days from receipt of this notice if you desire a formal consultation, or if you have any questions about this project or our planning process. Thank you for your time and attention to this matter.

Sincerely,

Matthew Feske
Community Development Director, City of Clayton
(925) 673-7343

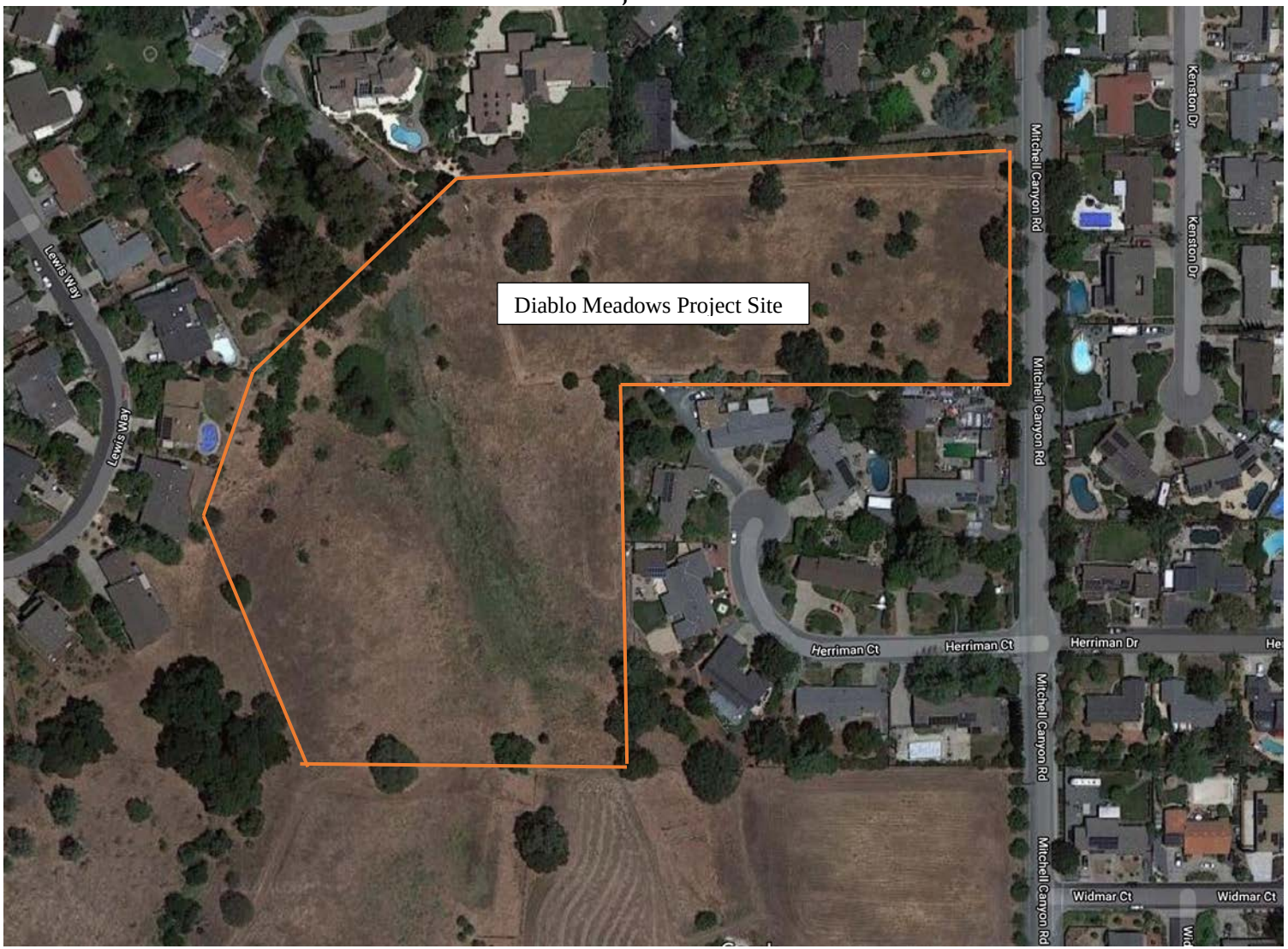
Attachments:

1. Topographic Map
2. Project Site Boundaries

Attachment 1
Topographic Map



Attachment 2
Project site



CITY OF CLAYTON
Founded 1857 .. Incorporated 1964
COMMUNITY DEVELOPMENT DEPARTMENT
6000 Heritage Trail, Clayton, CA 94517
PHONE: 925-673-7300 – FAX: 925-5672-4917

July 29, 2020

Ann Marie Sayers, Chairperson
Indian Canyon Mutsun Band of Costanoan
P.O. Box 28
Hollister, CA 95024

Subject: Formal Notification for Tribal Consultation – City of Clayton, Diablo Meadows Project

Ms. Ann Marie Sayers,

The City of Clayton is the lead agency for the Diablo Meadows Project (proposed project). This notification is being forwarded to Native American tribes that are understood to be traditionally and culturally affiliated with the project area pursuant to the statutory requirements of Senate Bill (SB) 18 (Chapter 905, Statutes of 2004) and Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014). The City is in the process of determining the appropriate scope and content of the environmental analysis to be prepared for the proposed project in accordance with the California Environmental Quality Act (CEQA). Pursuant to Public Resources Code Section 21080.3.1(b), under AB 52, tribes have 30 days to request consultation. Tribes have 90 days to request consultation with the City under SB 18 (Government Code §65352.3 et seq).

The proposed project is located on two parcels (APN 121-090-011, -016) directly west of Mitchell Canyon Road in the City of Clayton. The front-half of the 8.68-acre site is relatively flat with scattered trees. The site then slopes downward to the west to an historical drainage and then slopes up westward again. The site is undeveloped with one small shed on-site that has never been occupied. The project site is bound by Mitchell Canyon Road to the east, the City of Concord boundary to the west, Cemex Clayton Quarry to the south, and single-family residences to the north, south, east, and west. The City of Clayton General Plan designates the site as Single-Family Medium Density (3.1 – 5.0 du/net acre). The site is zoned R-15. The project will require approval of following entitlements: Rezone; Development Plan Permit; Vesting Tentative Map; and Tree Removal Permit.

The proposed project will subdivide the two parcels into 18 lots for single-family residences and the lots will range in size from 5,000-square feet (sf) to 7,000-sf. The proposed project will also develop 18 one-story, single-family residence units which will include four different unit layouts. Plan 1 is for a 1,580-sf three-bedroom, two-bathroom unit with a 347-sf accessory dwelling unit (ADU); Plan 2 consists of a 1,952-sf three-bedroom, 2.5-bathroom unit; Plan 2X consists of a 2,580-sf four-bedroom, three-bathroom unit; and Plan 3 consists of a 2,117-sf four-bedroom, 2.5-bathroom unit. Primary site access will be from Mitchell Canyon Road to the east and will terminate in a hammerhead cul-de-sac. Four acres, located west of the proposed lots, will remain as preserved natural open space. Development of the site will require the removal of 38 trees; however, one large blue oak tree will be preserved and incorporated into Lot 7. All trees within the open space will be unaffected. The project will require a rezone to PD (Planned Development).

If the Indian Canyon Mutsun Band of Costanoan would like to consult on the proposed project, please submit a request for consultation to the City by email at mfeske@ci.clayton.ca.us or by mail at the following address:

Matthew Feske
Community Development Director
City of Clayton Community Development Department
6000 Heritage Trail
Clayton, CA 94517

Please feel free to contact me within 90 days from receipt of this notice if you desire a formal consultation, or if you have any questions about this project or our planning process. Thank you for your time and attention to this matter.

Sincerely,

Matthew Feske
Community Development Director, City of Clayton
(925) 673-7343

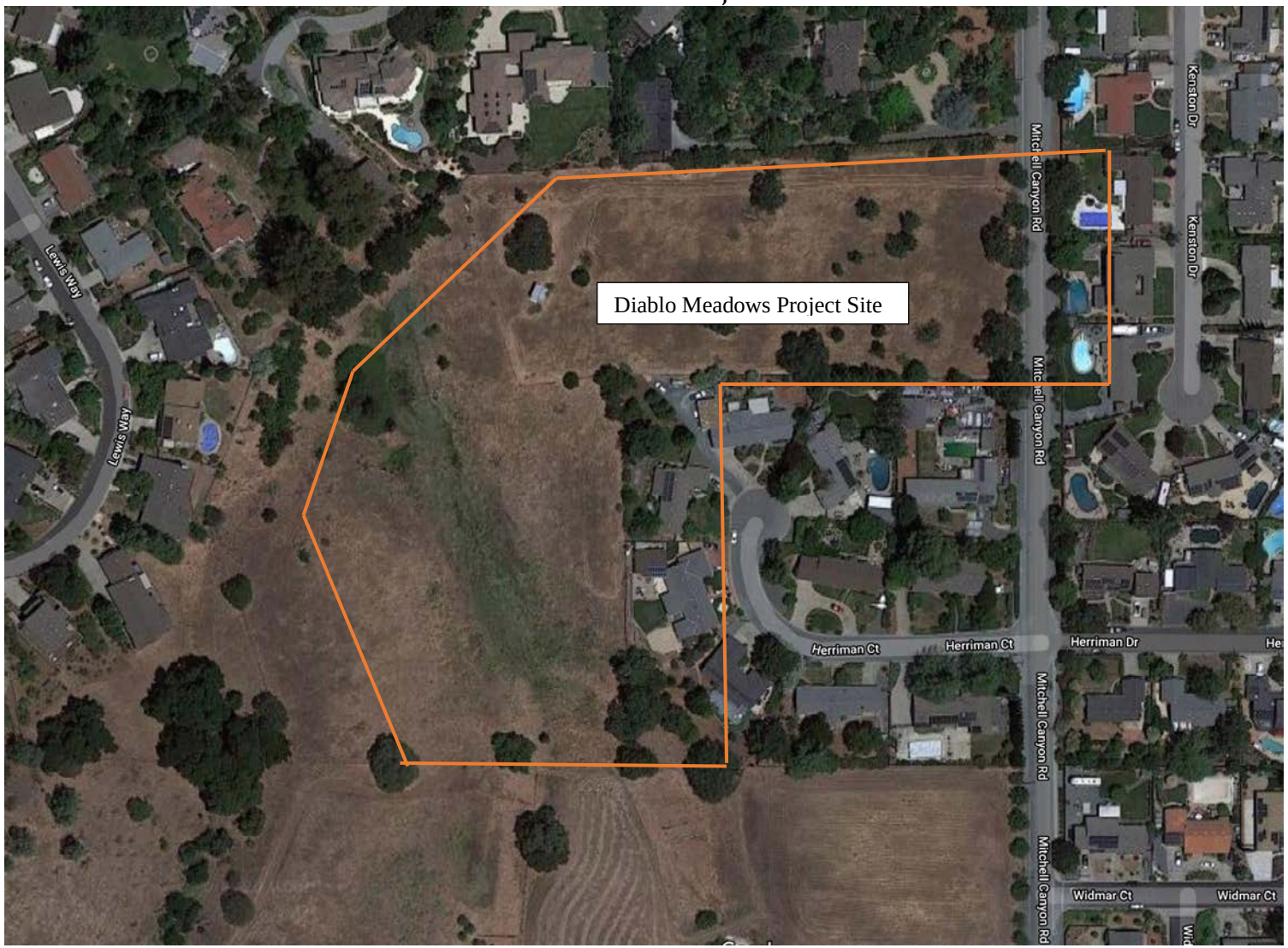
Attachments:

1. Topographic Map
2. Project Site Boundaries

Attachment 1
Topographic Map



Attachment 2
Project site



CITY OF CLAYTON
Founded 1857 .. Incorporated 1964
COMMUNITY DEVELOPMENT DEPARTMENT
6000 Heritage Trail, Clayton, CA 94517
PHONE: 925-673-7300 – FAX: 925-5672-4917

July 29, 2020

Charlene Nijmeh, Chairperson
Muwekma Ohlone Indian Tribe of the SF Bay Area
20885 Redwood Road, Suite 232
Castro Valley, CA 94546

Subject: Formal Notification for Tribal Consultation – City of Clayton, Diablo Meadows Project

Chairperson Charlene Nijmeh:

The City of Clayton is the lead agency for the Diablo Meadows Project (proposed project). This notification is being forwarded to Native American tribes that are understood to be traditionally and culturally affiliated with the project area pursuant to the statutory requirements of Senate Bill (SB) 18 (Chapter 905, Statutes of 2004) and Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014). The City is in the process of determining the appropriate scope and content of the environmental analysis to be prepared for the proposed project in accordance with the California Environmental Quality Act (CEQA). Pursuant to Public Resources Code Section 21080.3.1(b), under AB 52, tribes have 30 days to request consultation. Tribes have 90 days to request consultation with the City under SB 18 (Government Code §65352.3 et seq).

The proposed project is located on two parcels (APN 121-090-011, -016) directly west of Mitchell Canyon Road in the City of Clayton. The front-half of the 8.68-acre site is relatively flat with scattered trees. The site then slopes downward to the west to an historical drainage and then slopes up westward again. The site is undeveloped with one small shed on-site that has never been occupied. The project site is bound by Mitchell Canyon Road to the east, the City of Concord boundary to the west, Cemex Clayton Quarry to the south, and single-family residences to the north, south, east, and west. The City of Clayton General Plan designates the site as Single-Family Medium Density (3.1 – 5.0 du/net acre). The site is zoned R-15. The project will require approval of following entitlements: Rezone; Development Plan Permit; Vesting Tentative Map; and Tree Removal Permit.

The proposed project will subdivide the two parcels into 18 lots for single-family residences and the lots will range in size from 5,000-square feet (sf) to 7,000-sf. The proposed project will also develop 18 one-story, single-family residence units which will include four different unit layouts. Plan 1 is for a 1,580-sf three-bedroom, two-bathroom unit with a 347-sf accessory dwelling unit (ADU); Plan 2 consists of a 1,952-sf three-bedroom, 2.5-bathroom unit; Plan 2X consists of a 2,580-sf four-bedroom, three-bathroom unit; and Plan 3 consists of a 2,117-sf four-bedroom, 2.5-bathroom unit. Primary site access will be from Mitchell Canyon Road to the east and will terminate in a hammerhead cul-de-sac. Four acres, located west of the proposed lots, will remain as preserved natural open space. Development of the site will require the removal of 38 trees; however, one large blue oak tree will be preserved and incorporated into Lot 7. All trees within the open space will be unaffected. The project will require a rezone to PD (Planned Development).

If the Muwekma Ohlone Indian Tribe of the SF Bay Area would like to consult on the proposed project, please submit a request for consultation to the City by email at mfeske@ci.clayton.ca.us or by mail at the following address:

Matthew Feske
Community Development Director
City of Clayton Community Development Department
6000 Heritage Trail
Clayton, CA 94517

Please feel free to contact me within 90 days from receipt of this notice if you desire a formal consultation, or if you have any questions about this project or our planning process. Thank you for your time and attention to this matter.

Sincerely,

Matthew Feske
Community Development Director, City of Clayton
(925) 673-7343

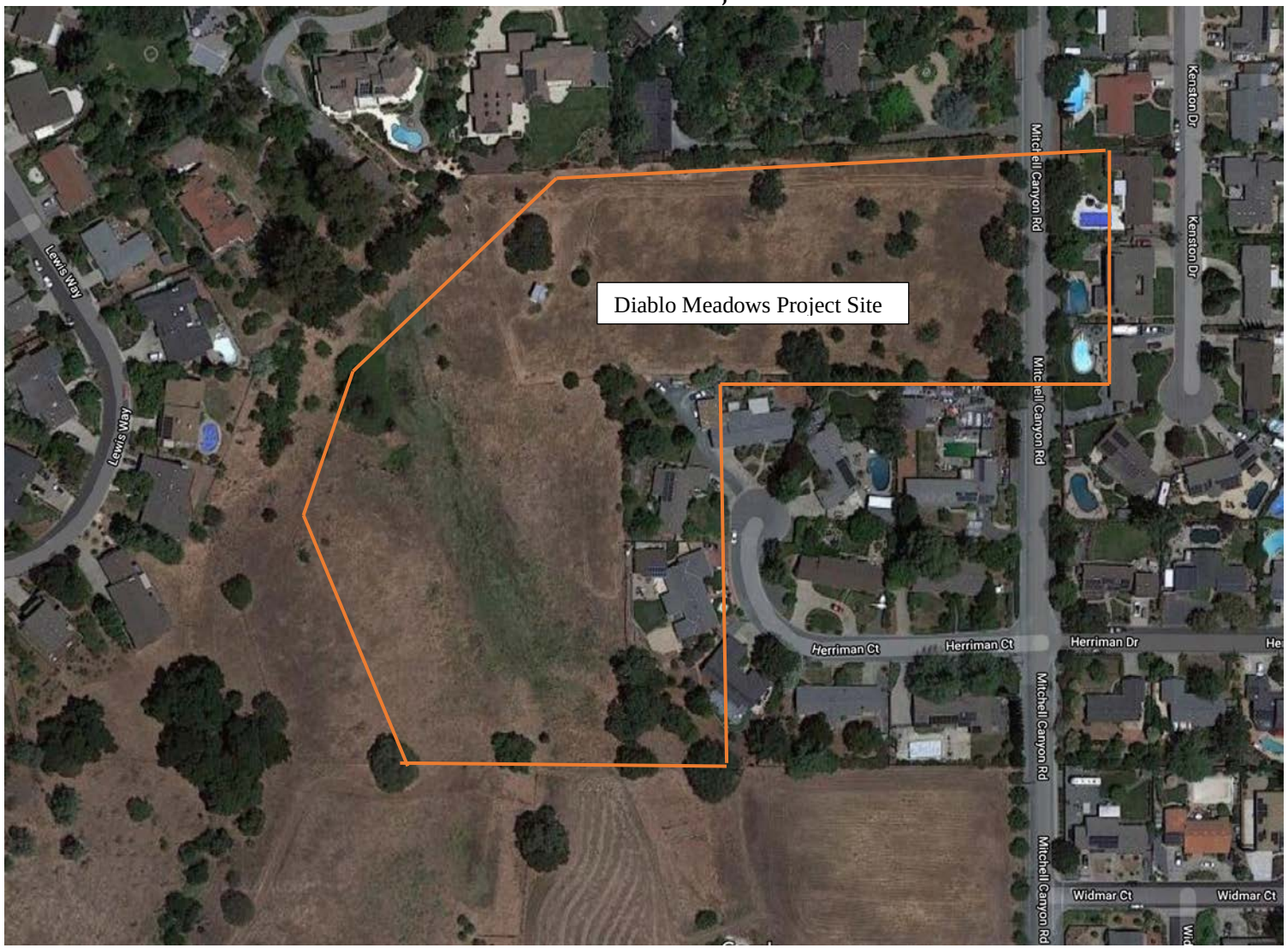
Attachments:

1. Topographic Map
2. Project Site Boundaries

Attachment 1
Topographic Map



Attachment 2
Project site



CITY OF CLAYTON
Founded 1857 .. Incorporated 1964
COMMUNITY DEVELOPMENT DEPARTMENT
6000 Heritage Trail, Clayton, CA 94517
PHONE: 925-673-7300 – FAX: 925-5672-4917

July 29, 2020

Katherine Erolinda Perez, Chairperson
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236

Subject: Formal Notification for Tribal Consultation – City of Clayton, Diablo Meadows Project

Ms. Katherine Erolinda Perez:

The City of Clayton is the lead agency for the Diablo Meadows Project (proposed project). This notification is being forwarded to Native American tribes that are understood to be traditionally and culturally affiliated with the project area pursuant to the statutory requirements of Senate Bill (SB) 18 (Chapter 905, Statutes of 2004) and Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014). The City is in the process of determining the appropriate scope and content of the environmental analysis to be prepared for the proposed project in accordance with the California Environmental Quality Act (CEQA). Pursuant to Public Resources Code Section 21080.3.1(b), under AB 52, tribes have 30 days to request consultation. Tribes have 90 days to request consultation with the City under SB 18 (Government Code §65352.3 et seq).

The proposed project is located on two parcels (APN 121-090-011, -016) directly west of Mitchell Canyon Road in the City of Clayton. The front-half of the 8.68-acre site is relatively flat with scattered trees. The site then slopes downward to the west to an historical drainage and then slopes up westward again. The site is undeveloped with one small shed on-site that has never been occupied. The project site is bound by Mitchell Canyon Road to the east, the City of Concord boundary to the west, Cemex Clayton Quarry to the south, and single-family residences to the north, south, east, and west. The City of Clayton General Plan designates the site as Single-Family Medium Density (3.1 – 5.0 du/net acre). The site is zoned R-15. The project will require approval of following entitlements: Rezone; Development Plan Permit; Vesting Tentative Map; and Tree Removal Permit.

The proposed project will subdivide the two parcels into 18 lots for single-family residences and the lots will range in size from 5,000-square feet (sf) to 7,000-sf. The proposed project will also develop 18 one-story, single-family residence units which will include four different unit layouts. Plan 1 is for a 1,580-sf three-bedroom, two-bathroom unit with a 347-sf accessory dwelling unit (ADU); Plan 2 consists of a 1,952-sf three-bedroom, 2.5-bathroom unit; Plan 2X consists of a 2,580-sf four-bedroom, three-bathroom unit; and Plan 3 consists of a 2,117-sf four-bedroom, 2.5-bathroom unit. Primary site access will be from Mitchell Canyon Road to the east and will terminate in a hammerhead cul-de-sac. Four acres, located west of the proposed lots, will remain as preserved natural open space. Development of the site will require the removal of 38 trees; however, one large blue oak tree will be preserved and incorporated into Lot 7. All trees within the open space will be unaffected. The project will require a rezone to PD (Planned Development).

If the North Valley Yokuts Tribe would like to consult on the proposed project, please submit a request for consultation to the City by email at mfeske@ci.clayton.ca.us or by mail at the following address:

Matthew Feske
Community Development Director
City of Clayton Community Development Department
6000 Heritage Trail
Clayton, CA 94517

Please feel free to contact me within 90 days from receipt of this notice if you desire a formal consultation, or if you have any questions about this project or our planning process. Thank you for your time and attention to this matter.

Sincerely,

Matthew Feske
Community Development Director, City of Clayton
(925) 673-7343

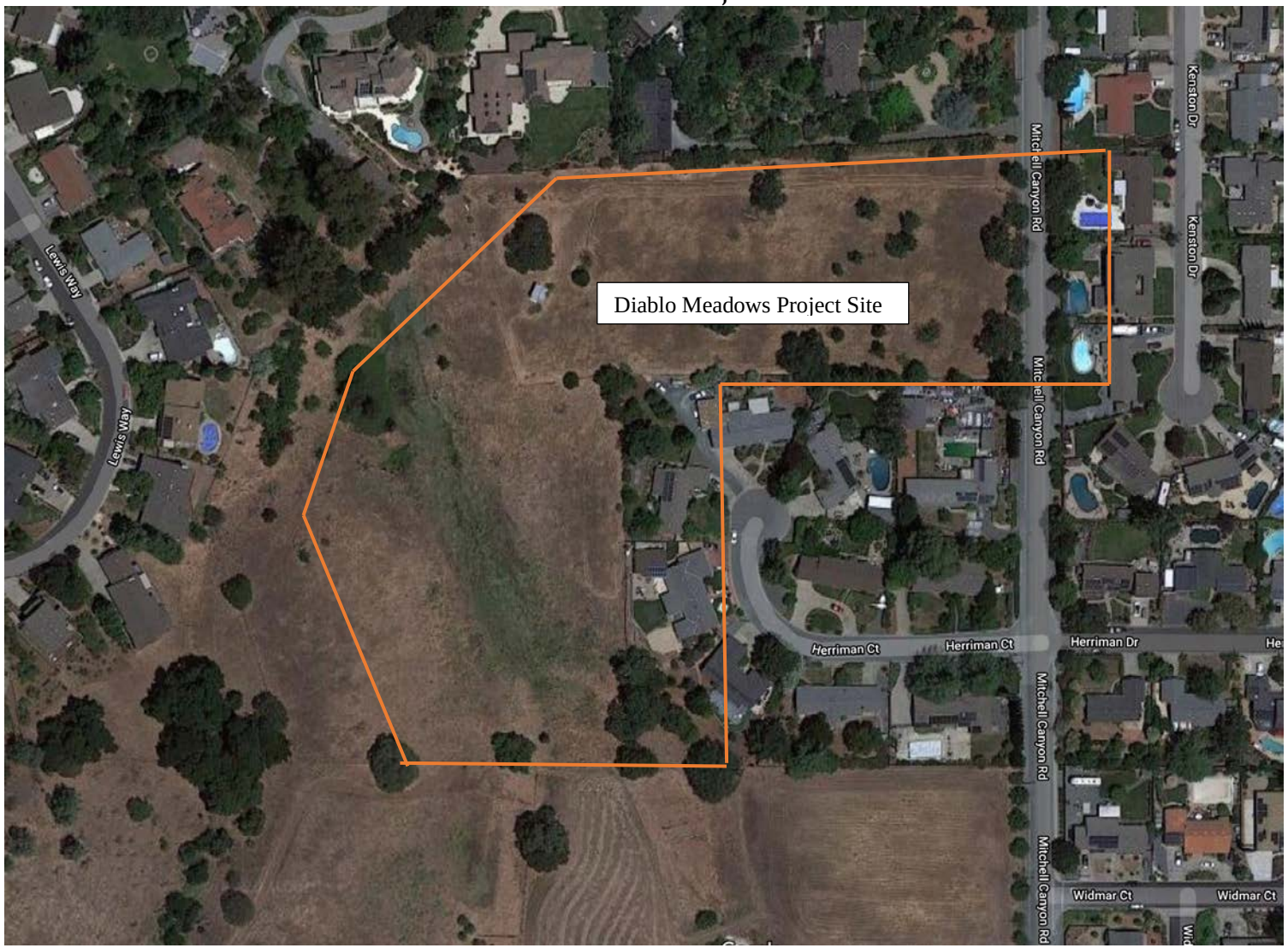
Attachments:

1. Topographic Map
2. Project Site Boundaries

Attachment 1
Topographic Map



Attachment 2
Project site



CITY OF CLAYTON
Founded 1857 .. Incorporated 1964
COMMUNITY DEVELOPMENT DEPARTMENT
6000 Heritage Trail, Clayton, CA 94517
PHONE: 925-673-7300 – FAX: 925-5672-4917

July 29, 2020

Andrew Galvan
The Ohlone Indian Tribe
P.O. Box 3152
Fremont, CA 94539

Subject: Formal Notification for Tribal Consultation – City of Clayton, Diablo Meadows Project

Mr. Andrew Galvan

The City of Clayton is the lead agency for the Diablo Meadows Project (proposed project). This notification is being forwarded to Native American tribes that are understood to be traditionally and culturally affiliated with the project area pursuant to the statutory requirements of Senate Bill (SB) 18 (Chapter 905, Statutes of 2004) and Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014). The City is in the process of determining the appropriate scope and content of the environmental analysis to be prepared for the proposed project in accordance with the California Environmental Quality Act (CEQA). Pursuant to Public Resources Code Section 21080.3.1(b), under AB 52, tribes have 30 days to request consultation. Tribes have 90 days to request consultation with the City under SB 18 (Government Code §65352.3 et seq).

The proposed project is located on two parcels (APN 121-090-011, -016) directly west of Mitchell Canyon Road in the City of Clayton. The front-half of the 8.68-acre site is relatively flat with scattered trees. The site then slopes downward to the west to an historical drainage and then slopes up westward again. The site is undeveloped with one small shed on-site that has never been occupied. The project site is bound by Mitchell Canyon Road to the east, the City of Concord boundary to the west, Cemex Clayton Quarry to the south, and single-family residences to the north, south, east, and west. The City of Clayton General Plan designates the site as Single-Family Medium Density (3.1 – 5.0 du/net acre). The site is zoned R-15. The project will require approval of following entitlements: Rezone; Development Plan Permit; Vesting Tentative Map; and Tree Removal Permit.

The proposed project will subdivide the two parcels into 18 lots for single-family residences and the lots will range in size from 5,000-square feet (sf) to 7,000-sf. The proposed project will also develop 18 one-story, single-family residence units which will include four different unit layouts. Plan 1 is for a 1,580-sf three-bedroom, two-bathroom unit with a 347-sf accessory dwelling unit (ADU); Plan 2 consists of a 1,952-sf three-bedroom, 2.5-bathroom unit; Plan 2X consists of a 2,580-sf four-bedroom, three-bathroom unit; and Plan 3 consists of a 2,117-sf four-bedroom, 2.5-bathroom unit. Primary site access will be from Mitchell Canyon Road to the east and will terminate in a hammerhead cul-de-sac. Four acres, located west of the proposed lots, will remain as preserved natural open space. Development of the site will require the removal of 38 trees; however, one large blue oak tree will be preserved and incorporated into Lot 7. All trees within the open space will be unaffected. The project will require a rezone to PD (Planned Development).

If the The Ohlone Indian Tribe would like to consult on the proposed project, please submit a request for consultation to the City by email at mfeske@ci.clayton.ca.us or by mail at the following address:

Matthew Feske
Community Development Director
City of Clayton Community Development Department
6000 Heritage Trail
Clayton, CA 94517

Please feel free to contact me within 90 days from receipt of this notice if you desire a formal consultation, or if you have any questions about this project or our planning process. Thank you for your time and attention to this matter.

Sincerely,

Matthew Feske
Community Development Director, City of Clayton
(925) 673-7343

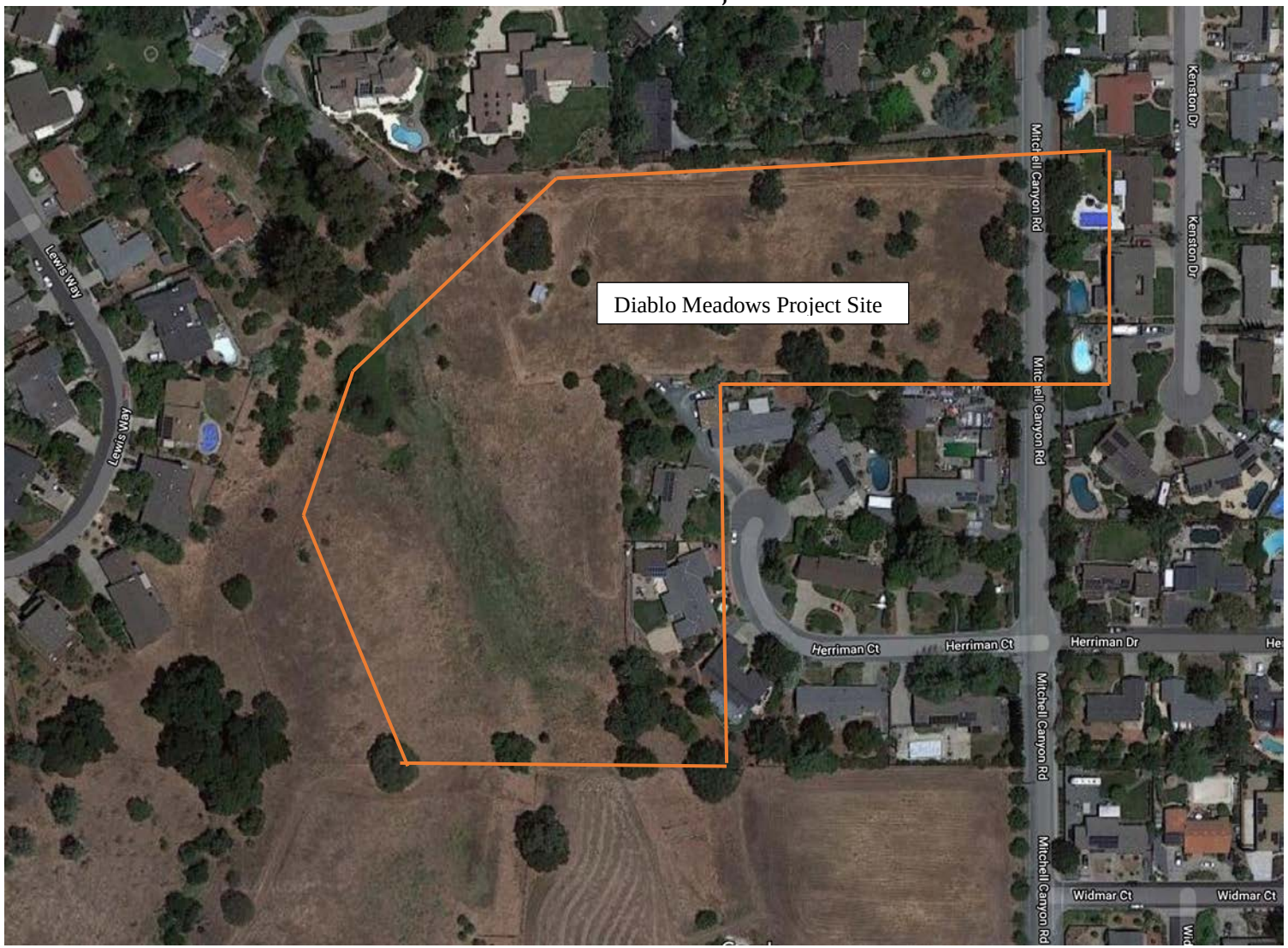
Attachments:

1. Topographic Map
2. Project Site Boundaries

Attachment 1
Topographic Map



Attachment 2
Project site



7016 3010 0000 5787 3853

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

RECEIVED
JUL 29 2020
Postmark Here
City of Clayton

Sent To: Andrew Galvez / The Ohlone Indian Tribe
Street and Apt. No., or PO Box No.: PO Box 3152
City, State, ZIP+4®: Fremont CA 94539

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3010 0000 5787 4089

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

RECEIVED
JUL 29 2020
Postmark Here
City of Clayton

Sent To: Raymond Hitchcock, Chairperson
Street and Apt. No., or PO Box No.: 9728 Kent St
City, State, ZIP+4®: Elk Grove, CA 95624

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 2710 0000 7861 0525

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

RECEIVED
JUL 29 2020
Postmark Here
City of Clayton

Sent To: Ann Marie Sayers Chairperson
Street and Apt. No., or PO Box No.: PO Box 28
City, State, ZIP+4®: Hollister CA 95024

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3010 0000 5787 3884

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

RECEIVED
JUL 29 2020
Postmark Here
City of Clayton

Sent To: Irenne Zwierlein, Chairperson
Street and Apt. No., or PO Box No.: 789 Canada Rd
City, State, ZIP+4®: Woodside CA 94062

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3010 0000 5787 4096

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

RECEIVED
JUL 29 2020
Postmark Here
City of Clayton

Sent To: Katherine Erolinda Perez, Chairperson
Street and Apt. No., or PO Box No.: PO Box 717
City, State, ZIP+4®: Linden CA 95236

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3010 0000 5787 3860

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

RECEIVED
JUL 29 2020
Postmark Here
City of Clayton

Sent To: Charlene Nijmeh, Chairperson
Street and Apt. No., or PO Box No.: 20885 Redwood Rd Suite 232
City, State, ZIP+4®: Castro Valley, CA 94546

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CITY OF CLAYTON

Founded 1857 . . Incorporated 1964

STAFF REPORT

TO: **HONORABLE MAYOR AND COUNCILMEMBERS**

FROM: **REINA SCHWARTZ, CITY MANAGER**
PAUL RODRIGUES, CPA, FINANCE DIRECTOR
BRYCE ROJAS, CPA, AUDITOR

DATE: **FEBRUARY 2, 2021**

SUBJECT: **AUDITED ANNUAL FINANCIAL REPORT OF THE CITY OF CLAYTON FOR THE FISCAL YEAR ENDED JUNE 30, 2020**

RECOMMENDATION

By Minute Order, accept the City of Clayton's Annual Financial Report, including the unmodified opinion of the Independent Auditors Report, issued by Cropper Accountancy Corporation for the fiscal year ended June 30, 2020.

BACKGROUND

The City's independent audit firm, Cropper Accountancy Corporation, has issued their opinion on the City of Clayton's financial statements for the fiscal year ended June 30, 2020 (FY 2019/20). In their opinion:

> "the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Clayton, California as of June 30, 2020, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United states of America."

It is the responsibility of City management to ensure the financial statements are presented fairly in accordance with GAAP (generally accepted accounting principles). City management is also responsible for the design, implementation and maintenance of internal controls relevant to the

preparation and fair presentation of financial statements free from material misstatement, whether due to fraud or error. The responsibility of the City's independent auditors is to express opinions on the City's financial statements based on its audit performed in accordance with generally accepted audit standards (GAAS) issued by the American Institute of Certified Public Accountants (AICPA) as well as generally accepted government auditing standards (GAGAS), or "yellow book" standards, issued by the Comptroller General of the United States.

DISCUSSION

Fund Financial Statements

General Fund

The City's adopted FY 2020/21 budget projected the City's General Fund would report an increase in of $119,973 in fund balance by the close of FY 2019/20, reflecting the planned utilization of excess reserves for urgent non-recurring capital and operational needs approved by the City Council in four separate actions over the past five years. The audited financials show an actual increase in General Fund reserves of $404,425 for the year ended June 30, 2020. However, a portion of this increase is due to unrealized gains on the investment portfolio ($113,833) and as such the true amount available to be considered for addition to the Rainy Day Fund is $290,592. This results in a total General Fund reserve balance of $6,164,570 as of June 30, 2020, of which $5,654,925 (91.7%) is reported as unassigned and available for appropriation. This unassigned fund balance is 1.17 times the size of the General Fund's adopted operating budget for the upcoming fiscal year ending June 30, 2021.

Other Governmental Funds

In the aggregate, excluding the General Fund, the other governmental funds of the City reported a net increase in fund balance totaling $694,255.

- *HUTA Gas Tax Fund (No. 201)* – The Highway Users Tax Account (HUTA) gas tax fund reported a net increase in fund balance of $127,592 to a total ending fund balance of $395,287.
- *RMRA Gas Tax Fund (No. 202)* – The Road Maintenance and Rehabilitation Account (RMRA) gas tax fund was established in FY 2017/18 as a result of the State legislature's passing of the Road Repair and Accountability Act of 2017, also known as Senate Bill 1 (SB1). This fund reported an ending fund balance of $428,499 as of June 30, 2020, a net increase of $232,854.
- *Landscape Maintenance District Fund (No. 210)* – This fund reported a net decrease in fund balance of $163,049 to a total fund balance of $1,063,587 as of June 30, 2020. Pursuant to the adopted FY 2020/21 budget, $499,700 of this available fund balance has been assigned for upcoming Landscape Maintenance Fund operating and CIP expenditures.
- *The Grove Park Fund (No. 211)* – This fund reported a net increase of $54,117 in fund balance to a total positive ending fund balance of $406,456.
- *Measure J Fund (No. 220)* – This fund reported a net increase in fund balance of $254,078 to a total ending fund balance of $88,291.

Endeavor Hall Enterprise Fund

Consistent with the prior year, the Endeavor Hall rental facility is the City's only "business-type" enterprise fund reported in the CAFR. The Endeavor Hall fund reported a decrease in net position of $38,808. This resulted primarily from total depreciation expense of $36,742 comprising 58% of FY 2019/20 operating expenses. Overall, this fund reported a positive net position balance of $998,924, primarily due to capital investment in the rental facility land, property and equipment. However, as of June 30, 2020 Endeavor Hall continued to report a deficit unrestricted net position arising from several years of deficit operations covered temporarily by short-term General Fund cash flow loans. Going forward, the city must analyze the substantial discounts offered to non-profit organizations (up to 80%), for the rental of this facility and determine the proper fee structure needed to bring revenues in line with the costs of running the facility.

Government-Wide Financial Statements

The government-wide financial statements are presented on an "economic resources" measurement focus and the accrual basis of accounting. Accordingly, and unlike the "modified accrual" governmental fund financial statements discussed previously, the government-wide statements report long-term assets and liabilities in the Statement of Net Position. In the long-run, increases or decreases in net position may serve as a useful indicator or whether the financial position of the City of Clayton is improving or weakening. For the fiscal year ended June 30, 2020, the government-wide net position increased by $505,374, with governmental activities net position increasing by $544,182 and business activities net position decreasing by $38,808.

As of June 30, 2020, the City reported total government-wide ending net position of $46,259,241 of which the largest portion totaling $30,853,858 (67%), is classified as "net investment in capital assets" and is not in liquid form. $12,046,964 (26%) of total government-wide net position is classified as "restricted" representing resources that are subject to external restrictions on how it may be used such as restricted special parcel taxes (i.e., The Grove Park and the Landscape Maintenance District), restricted transportation taxes (HUTA, RMRA, Measure J, etc.), and other restricted-use funds. The remaining governmental net position of $3,358,419 (7%) is reported as "unrestricted" and may be used to meet the ongoing obligations to citizens and creditors.

FISCAL IMPACT

The acceptance of the audited financial statements for the year ended June 30, 2020 does not have any direct fiscal impact on the City but reflects the overall financial health of the City.

Attachments:

1. Comprehensive Annual Financial Report and Independent Auditors' Report for the Year Ended June 30, 2020
2. Auditors' Required Communication to Those Charged with Governance Near the End of an Audit (AU-C 260)

COMPREHENSIVE ANNUAL FINANCIAL REPORT

FOR THE FISCAL YEAR ENDED JUNE 30, 2020



CITY OF CLAYTON, CALIFORNIA

DRAFT 01.28.21 12PM

DRAFT 01.28.21 12PM

City of Clayton, California

Annual Financial Report

For the Year Ended June 30, 2020

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

INTRODUCTORY SECTION

DRAFT 01.28.21 12PM

City of Clayton
Comprehensive Annual Financial Report
For the year ended June 30, 2020
Table of Contents

	Page
INTRODUCTORY SECTION	
Table of Contents	i
Letter of Transmittal	iv
Mission Statement	ix
Organizational Chart	x
Principal Officers, Department Heads and Advisory Bodies	xi
Regional Map of Clayton and Nearby Cities	xii
FINANCIAL SECTION	
Independent Auditors' Report	1
Management's Discussion and Analysis	4
Basic Financial Statements	
Government-Wide Financial Statements:	
Statement of Net Position	16
Statement of Activities and Changes in Net Position	17
Governmental Fund Financial Statements:	
Balance Sheet	22
Reconciliation of Governmental Funds Balance Sheet to the Statement of Net Position	25
Statement of Revenues, Expenditures and Changes in Fund Balances	26
Reconciliation of the Governmental Funds Statement of Revenues, Expenditures and Changes in Fund Balances to the Statement of Activities and Changes in Net Position	29
Proprietary Fund Financial Statements:	
Statement of Net Position	32
Statement of Revenues, Expenses and Changes in Net Position	33
Statement of Cash Flows	34
Fiduciary Fund Financial Statements:	
Statement of Fiduciary Net Position	36
Statement of Changes in Fiduciary Net Position	37
Notes to Basic Financial Statements	40

DRAFT 01.28.21 12PM

FINANCIAL SECTION (Continued)

Required Supplementary Information

Budgetary Comparison Schedules
General Fund…… 86
Landscape Maintenance District ……. 87
Successor Housing Agency……. 88

Pension Plan Funding Status
Schedule of Proportionate Share of Net Pension Liability…. 89
Schedule of Pension Plan Contributions…. 90

Other Postemployment Benefits Plan Funding Status
Schedule of Changes in the Net OPEB Liability and Related Ratios. ……. 91
Schedule of OPEB Plan Contributions……. 92

Notes to the Required Supplementary Information……. 93

Supplementary Information

Major Funds
Budgetary Comparison Schedules. 97

Non-Major Governmental Funds Financial Statements:
Combining Balance Sheet…… 100
Combining Statement of Revenues, Expenditures and Changes in Fund Balances…… 102
Budgetary Comparison Schedules……. 104

Internal Service Funds:
Combining Statement of Net Position. . . ……. 116
Combining Statement of Revenues, Expenses and Changes in Net Position……. 117
Combining Statement of Cash Flows……. 118

Agency Funds:
Combining Statement of Changes in Assets and Liabilities……. 120

DRAFT 01.28.21 12PM

STATISTICAL SECTION (UNAUDITED)

Statistical Section Table of Contents..... 125

Financial Trends
Net Position by Component..... 126
Changes in Net Position..... 128
Fund Balances of Governmental Funds..... 130
Changes in Fund Balances of Governmental Funds..... 132

Revenue Capacity
Property Tax Levies and Collections..... 134
Assessed Value and Estimated Actual Value of Taxable Property..... 135
Taxable Assessed Value by Source..... 136
Property Tax Rates..... 138
Principal Property Tax Payers..... 140

Debt Capacity
Ratios of Debt Outstanding..... 142
Computation of Direct and Overlapping Debt..... 143
Legal Debt Margin..... 144
Bonded Debt Pledged Revenue Coverage..... 146

Demographic and Economic Information
Demographic and Economic Statistics..... 147

Operating Information
Full-time Equivalent City Employees by Function..... 148
Operating Indicators by Function..... 150
Capital Asset Statistics by Function..... 152
General Information..... 154

ADDITIONAL REPORTS

Independent Auditors' Report on Internal Controls over Financial Reporting and on Compliance and other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards..... 157

DRAFT 01.28.21 12PM

CITY OF CLAYTON
Founded 1857 . . Incorporated 1964

COMMUNITY DEVELOPMENT (925) 673-7340
ENGINEERING (925) 969-8181

6000 HERITAGE TRAIL CLAYTON, CALIFORNIA 94517-1250
TELEPHONE (925) 673-7300 FAX (925) 672-4717

CITY COUNCIL
CARL "CW" WOLFE, MAYOR
PETER CLOVEN, VICE MAYOR
JEFF WAN, COUNCILMEMBER
JIM DIAZ, COUNCILMEMBER
HOLLY TILLMAN, COUNCILMEMBER

January 14, 2021

Honorable Mayor and Members of the City Council
City of Clayton

We are pleased to submit the City of Clayton's Comprehensive Annual Financial Report (CAFR) for the Fiscal year ended June 30, 2020. Since its incorporation, the City has submitted an annual audited Financial Report to the City Council and its citizens in accordance with *California Government Code* section 25253. The CAFR provides the public, businesses, property owners, investors and all interested parties with an overview of the City's finances.

The information in this CAFR is prepared in accordance with Generally Accepted Accounting Principles (GAAP) and includes an "unmodified opinion" (the highest rating) on the report by an independent certified public accounting firm, Cropper Accountancy Corporation.

Although we rely on the standards and expertise of these independent auditors, the responsibility for the accuracy and fair representation of the CAFR ultimately rests with City management. We believe the data presented in this Report is accurate in all material respects and all statements and disclosures have been included necessary for the reader to obtain a thorough understanding of the City's financial activities.

Management of the City has established an internal control framework that is designed both to protect the City's assets from loss, theft, or misuse and to compile reliable and timely information for the preparation of the City's financial statements in conformity with GAAP. Because the cost of internal controls should not outweigh its benefits, the City's framework of internal controls has been designed to provide reasonable rather than absolute assurance that its financial statements will be free from material misstatements.

For readers interested in a more detailed review of the City's financial statements, a section in the CAFR called "Management Discussion and Analysis" (MD&A) has been included in accordance with Government Accounting Standards Board (GASB) Statement 34, *Basic Financial Statements – And Management's Discussion and Analysis – For State and Local Governments*. The MD&A recounts the financial highlights of the City and provides additional analyses on the variances and trends reported as part of the financial statements. The MD&A further discloses significant items impacting the financial condition of the City and is designed to be read in conjunction with this Letter of Transmittal.

City Profile

The City of Clayton was incorporated in 1964 and is located in Contra Costa County, a suburban region in the eastern portion of the San Francisco-Bay Area. Pursuant to its adopted budget for the fiscal year ending June 30, 2020, the City has a permanent staff of twenty-six (26) full-time equivalent employees which serves approximately 11,700 residents in a land area of approximately 4 square miles. Nestled in a small valley at the northern base of Mt. Diablo, the boundaries of the City are mostly developed with a

DRAFT 01.28.21 12PM

City Profile, continued

strong community emphasis on open space preservation and maintenance of an extensive network of trails. The City continues to show strength as a safe community with attractive residential neighborhoods as a gateway to the fast paced and robust Bay Area economy.

The City operates under a Council-Manager form of government and provides many essential public services to the community. The City is governed by a five-member City Council elected at large, serving staggered terms of four years. The Mayor and Vice Mayor are selected by the City Council each year from its membership and serve one-year terms. The City Council is responsible for setting policies, adopting City ordinances, resolutions, the annual budget, appointing commissions and committees, and hiring the City Manager and City Attorney, among other key duties. The City Manager is responsible for implementing the City Council's policies, ordinances and directives, overseeing the daily operations of the City, and appointing all department heads and through them all other employees of the City.

As presented in the City's government-wide statement of activities, pursuant to GASBS 34, the City's numerous departments and restricted-use funds accounting for public services are consolidated into higher-level *programs*, which include: public safety, public works, parks and recreation services, community and economic development, and general government. The public safety program is composed of an in-house police department, staffed with eleven (11) full-time sworn police officers and two (2) administrative personnel dedicated to the function of police services. Public works tracks the maintenance of public landscaping (i.e. street medians and shoulders, sub-division entryways, etc.), facilities, transportation infrastructure (i.e. streets, lighting, traffic signals, etc.), as well as contract City engineering services for management of the City's Capital Improvement Program as well as land development regulatory needs. In their capacity of providing parks and recreation services, the City's in-house maintenance department oversees the maintenance of the Clayton Community Library, the Clayton Community Park, The Grove Park, various neighborhood parks, and the historic Endeavor Hall rental facility. The community and economic development program consists of two (2) in-house staff providing planning and land-use regulatory services as well as the functions of economic development and affordable housing. Finally, the general government program reports legislative and support costs indispensable in providing in-house public services and maintains compliance an ever-expanding list of legal, fiscal and other statutory requirements imposed by the State of California.

The City's fiscal year runs from July 1st through June 30th. Each year, the City Manager presents an annual budget to the City Council for adoption by Resolution on or before June 30 in accordance with *Clayton Municipal Code* section 3.02.040. On an interim basis the budget is monitored continually with the budgetary level of control maintained at the fund level.

Economic Condition and Outlook

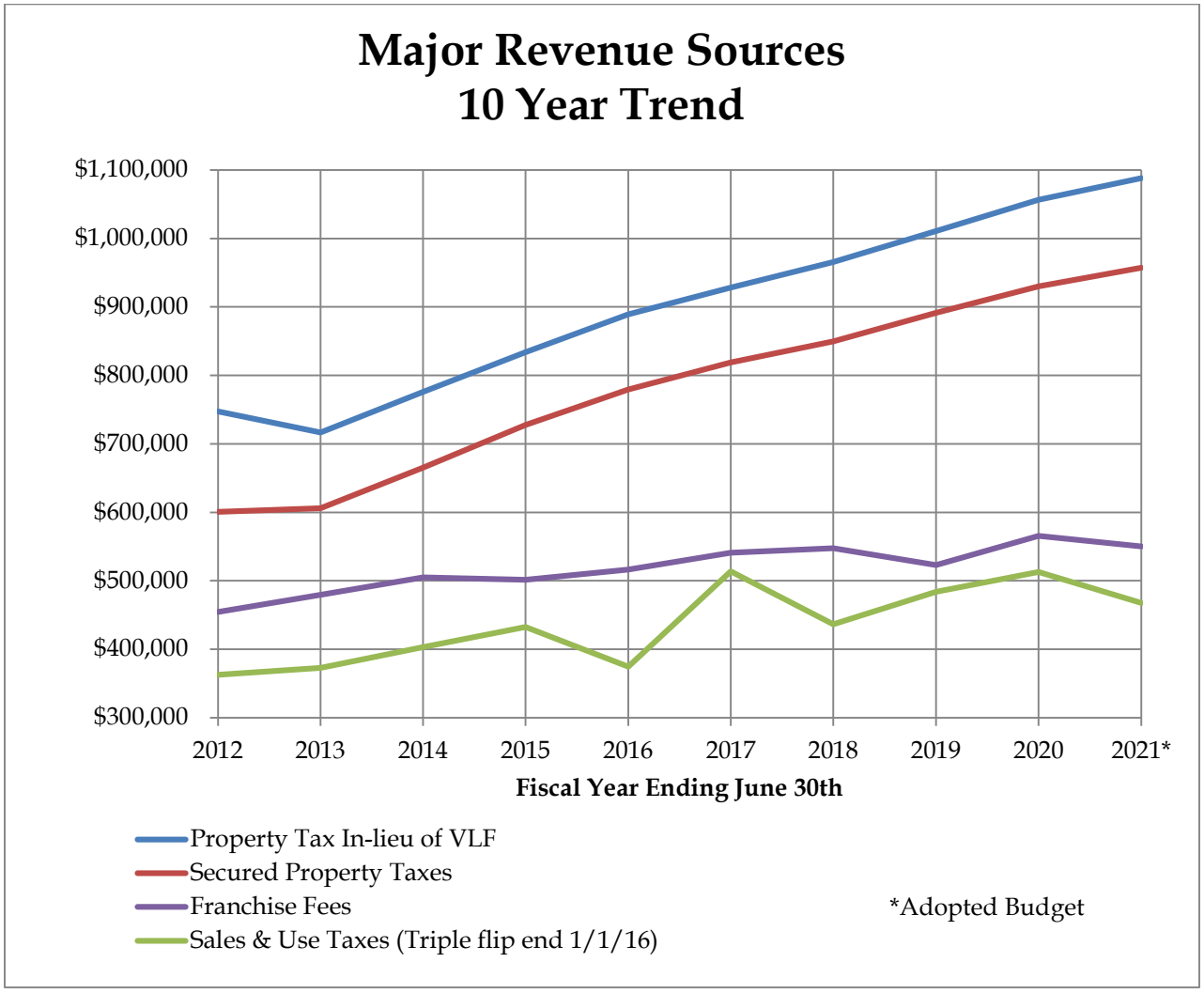
Essentially a cul-de-sac hugging the base of acclaimed Mt. Diablo, Clayton maintains a small town atmosphere while its relative proximity to California State Highway 24 and neighboring city BART stations make it ideal for commuters. In addition, the semi-rural setting, low crime rate and excellent middle and elementary public schools make Clayton attractive to families of all types.

DRAFT 01.28.21 12PM

Economic Condition and Outlook, continued

Its residents are generally highly educated with approximately 56.2% of adults greater than age 25 having a bachelor's degree or higher. In June of 2020, the unemployment rate of the City was 6.5%, compared to 13.4% and 15.1% for Contra Costa County and the State of California, respectively. In 2019 the median household income in the City was $152,581 compared to $80,440 for the state. The median age of Clayton residents is 46.3 as of the 2019 calendar year. The median sales price of homes in Clayton at June 30, 2020 was $850,000. These factors bode well for the City's major sources of revenue, as property and sales & use taxes maintain all-time high levels.

In order, the City General Fund's top revenue sources are: in-lieu vehicle license fees (VLF – paid from the state's portion of property taxes); secured property taxes; franchise fees; and sales & use taxes (including the state-allocated "triple flip" prior to the fiscal year ending June 30, 2017). The following chart illustrates the ten-year trend of these four major revenue sources for the City:



DRAFT 01.28.21 12PM

Altogether, these four primary revenue sources comprise 65.2% of General Fund revenues per the adopted budget for the fiscal year ending June 30, 2021. A non-recurring spike was realized in sales and use taxes four years ago in the year ended June 30, 2017 attributable to the City receiving a final true-up Triple Flip allocation from the state following the statutory dissolution of this process effective January 1, 2017. Accordingly, the following year realized a dip back to "normal" sales & use tax trend levels. In the long-run however, given the suburban composition of the City and its geographic boundaries limiting future development, management anticipates slow growth for the next ten years in sales & use taxes and franchise fees and moderate growth in property tax revenue (including in-lieu VLF property taxes received from the state). With increasing telecommunications technologies, cable-based franchise fees could be a declining or at-risk revenue, while other factors such as weather patterns and sustainable energy trends could impact similar franchise fee revenue. Given the recent U.S. Supreme Court *South Dakota v. Wayfair* ruling, it is reasonably possible the City will see an increase in sales & use tax revenue in forthcoming years with the definition of eligible taxable sales transactions now potentially including all online sales where "substantial nexus" requirements exist with online sellers in California.

Long-Term Financial Planning

As of the year ended June 30, 2020, the City of Clayton's financial condition remains sound. An indicator of financial condition is the level of fund balances, both reserved and unreserved, in the City's General Fund. The City Council has directed an absolute minimum reserve of $250,000 as its never-to-be-expended "catastrophic reserve." In practice, due to the effectiveness in fiscal management, this policy has been easily achieved, indicating perhaps this floor requirement should be elevated in the future. However, the standing Policy Goal of the City Council is to establish and retain an undesignated reserve of 50% the annual General Fund operating budget. At June 30, 2020 the total unassigned General Fund reserve balance is $5,654,925, or 1.17 times the size of the adopted General Fund operating budget for the fiscal year ending June 30, 2021. This means in an emergency scenario, the City could operate over an entire year on reserves alone.

The City of Clayton maintains a five-year Capital Improvement Program (CIP), which serves as its planning document to ensure its infrastructure is well maintained. The City prioritizes roads for maintenance and reconstruction based on the relative pavement condition index, with other infrastructure and facility improvement projects prioritized at the discretion of the City Council. Over the course of the last 10 years the City has invested approximately $9.7 million into facility and infrastructure capital improvements, funded by Highway User Tax Apportionments (i.e. HUTA or "gas taxes"), local Measure J taxes, redevelopment property tax increment allocations (prior to the dissolution of the Clayton Redevelopment Agency in 2012), and other state and federal grants. For the upcoming fiscal year ending June 30, 2021, the City's CIP is expected to invest an additional $1.4 million into transportation and general infrastructure maintenance and improvement needs of the community.

DRAFT 01.28.21 12PM

City of Clayton
Comprehensive Annual Financial Report
For the year ended June 30, 2020
Letter of Transmittal

Acknowledgements

The preparation of a CAFR cannot be accomplished without the professional, efficient and dedicated services of the Admin/Finance/Legal Department staff (in particular, Accounting Technician Jennifer Giantvalley), and the independent accounting firm of Cropper Accountancy Corporation. We also thank the honorable members of the City Council and the various departments for their cooperation and support in planning and conducting the financial operations of the City during the fiscal year.

Respectfully Submitted,

Paul L. Rodrigues, CPA
Finance Director

DRAFT 01.28.21 12PM

OUR MISSION

To be of exemplary service to the Clayton community with an emphasis on:

- Health and safety
- Responsive customer service
- Highly trained team of employees
- A cooperative work environment

OUR VALUES

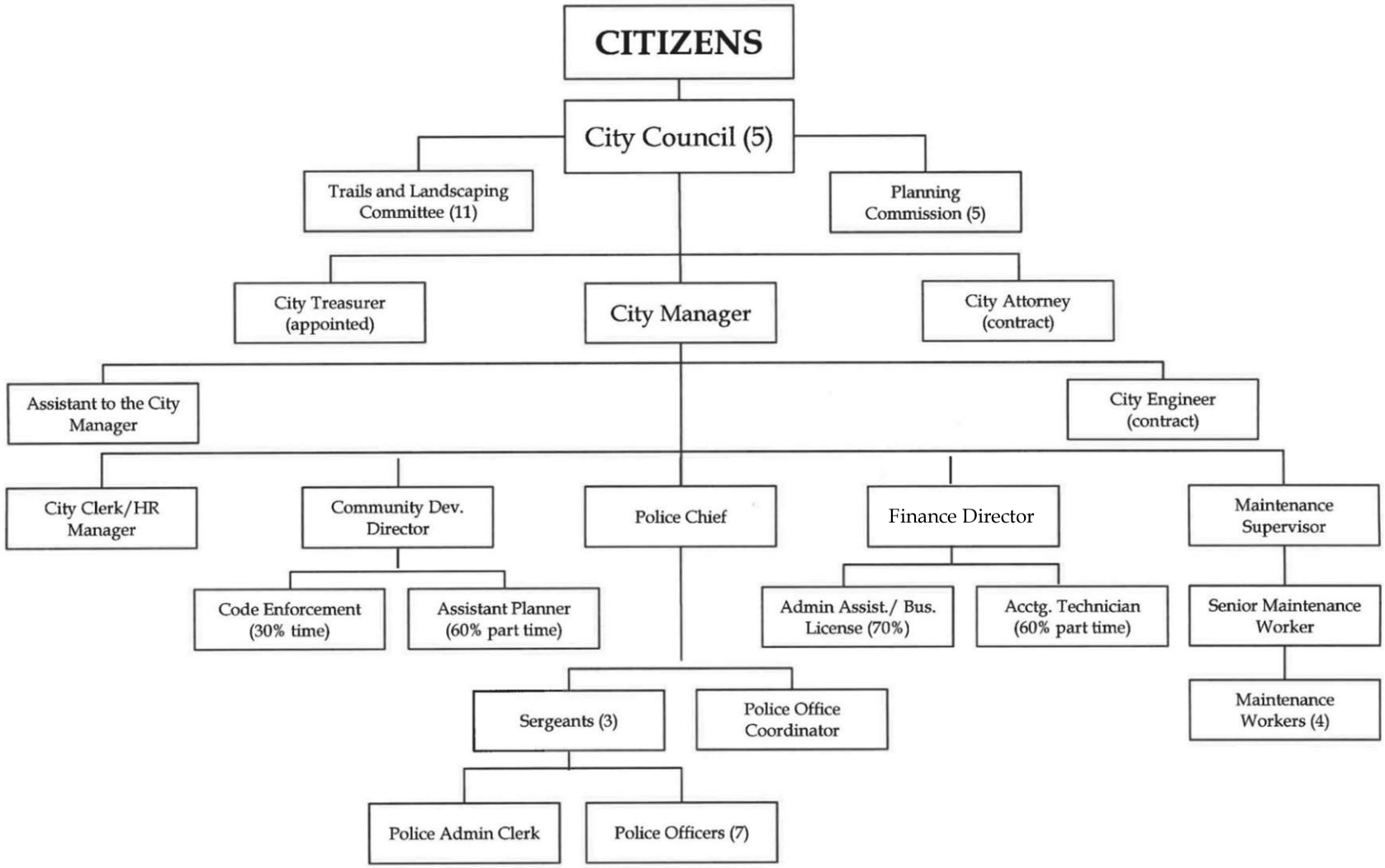
- Courtesy
- Creativity
- Diversity
- Employee participation
- Ethical behavior
- Fiscal responsibility
- Inclusiveness
- Informed risk taking
- Open communication
- Professionalism
- Trustworthiness

OUR VISION

The City of Clayton organization will be recognized as a premier small city. Customer service will be our hallmark; organizational processes will be a model of efficiency and effectiveness; innovation will be common place; and excellence of work product will be the norm. The employees will enjoy their work environment, and each will be a valued and respected member in his or her field of work. All residents and the City Council will be proud of their City government.

DRAFT 01.28.21 12PM

City of Clayton Organizational Chart



DRAFT 01.28.21 12PM

DIRECTORY OF PRINCIPAL OFFICIALS AND ADVISORY BODIES

CITY COUNCIL

Carl "CW" Wolfe, Mayor
Peter Cloven, Vice Mayor
Jim Diaz, Councilmember
Jeff Wan, Councilmember
Holly Tillman, Councilmember

COMMISSIONS

Planning Commission

COMMITTEES

Trails and Landscaping Committee

APPOINTED OFFICIALS AND DEPARTMENT HEADS

Reina Schwartz	City Manager
Laura Hoffmeister	Assistant to the City Manager
Hank Stratford	City Treasurer
Paul Rodrigues	Finance Director
Elise Warren	Chief of Police
Janet Calderon	City Clerk / HR Manager
Matthew Feske	Community Development Director
Jim Warburton	Maintenance Supervisor
Malathy Subramanian	City Attorney (contract)
Scott Alman	City Engineer (contract)

DRAFT 01.28.21 12PM

Regional Map of Clayton, California
And Nearby Cities



DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

FINANCIAL SECTION

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

INDEPENDENT AUDITORS' REPORT

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

INDEPENDENT AUDITORS' REPORT

To the City Council
City of Clayton, California

We have audited the accompanying financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Clayton as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the City's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America, and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the City's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Clayton as of June 30, 2020, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis on pages 4-14, budgetary comparison information on pages 86-88, Schedule of

DRAFT 01.28.21 12PM

Proportionate Share of Net Pension Liability on page 89, Schedule of Pension Plan Contributions on page 90, Schedule of Changes in Net OPEB Liability and Related Ratios on page 91, and Schedule of OPEB Plan Contributions on page 92 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the City of Clayton's basic financial statements. The introductory section, combining and individual nonmajor fund financial statements, and statistical section are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The combining and individual nonmajor fund financial statements are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the combining and individual nonmajor fund financial statements are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated January 14, 2021 on our consideration of City of Clayton's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance on the results of that testing, and do not provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering City of Clayton's internal control over financial reporting and compliance.

CROPPER ROWE, LLP
Walnut Creek, California
January 14, 2021

DRAFT 01.28.21 12PM

MANAGEMENT'S DISCUSSION AND ANALYSIS

DRAFT 01.28.21 12PM

Management of the City of Clayton (the "City") provides this Management's Discussion and Analysis of the City's Basic Financial Statements for readers of the City's financial statements. This narrative overview and analysis of the financial activities of the City is for its fiscal year ended June 30, 2020. We encourage readers to consider this information in conjunction with the additional information that is furnished with the City's financial statements, which follow.

FINANCIAL HIGHLIGHTS - PRIMARY GOVERNMENT

Government -Wide Highlights

Net Position - The assets of the City of Clayton exceeded its liabilities at the close of the year ended June 30, 2020 by $45,259,241. Of this amount, $3,358,419 was reported as "unrestricted net position" and may be used to meet the ongoing obligations to citizens and creditors.

Changes in Net Position - The City's total net position increased by $505,374 in the fiscal year ending June 30, 2020. Net position of governmental activities increased by $544,182, while net position of business-type activities decreased by $38,808.

Major Fund Highlights

Governmental Funds – As of the year ended June 30, 2020, the City's governmental funds reported a combined ending fund balance of $16,431,320. Of this amount $5,631,359 represents "unassigned fund balances" available for appropriation.

General Fund - The unassigned fund balance of the General Fund on June 30, 2020 was $5,654,925, while the non-spendable and assigned fund balances were $100,163 and $409,482 respectively.

OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis is intended to serve as an introduction to the City of Clayton's basic financial statements. The City of Clayton's basic financial statements comprise three components: 1) government-wide financial statements, 2) fund financial statements and 3) notes to the financial statements. This report also contains required supplementary information and supplemental information in addition to the basic financial statements themselves.

Government-wide Financial Statements

The *government-wide financial statements* are designed to provide readers with a broad overview of the City of Clayton's finances, in a manner similar to a private-sector business.

The *statement of net position* presents information on all of the City of Clayton's assets and liabilities, with the difference between the two reported as *net position*. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the City of Clayton is improving or deteriorating.

DRAFT 01.28.21 12PM

OVERVIEW OF THE FINANCIAL STATEMENTS, Continued

Government-wide Financial Statements, Continued

The *statement of activities* presents information showing how the City's *net position* changed during the most recent fiscal year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, *regardless of the timing of related cash flows*. Thus, revenues and expenses are reported in this statement for some items that will only result in cash flows in future fiscal periods (e. g. uncollected taxes and earned but unused vacation leave).

Both of the government-wide financial statements distinguish functions of the City of Clayton that are principally supported by taxes and intergovernmental revenues (*governmental activities*) from other functions that are intended to recover all or a significant portion of their costs through user fees and charges (*business-type activities*). The governmental activities of the City of Clayton include general government, public safety, public works, community and economic development, and parks and recreation services. The business-type activities of the City of Clayton include the activities of the Endeavor Hall enterprise fund.

Fund Financial Statements

A *fund* is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The City of Clayton, like other state and local governments, uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements. All of the funds of the City of Clayton can be divided into three categories: governmental funds, proprietary funds, and fiduciary funds.

Governmental Funds

Governmental funds are used to account for essentially the same functions reported as *governmental activities* in the government-wide financial statements. However, unlike the government-wide financial statements, governmental fund financial statements focus on *near-term inflows and outflows of spendable resources*, as well as on *balances of spendable resources* available at the end of the fiscal year. Such information may be useful in evaluating a government's near-term financing requirements.

Because the focus of governmental funds is narrower than that of the government-wide financial statements, it is useful to compare the information presented for *governmental funds* with similar information presented for *governmental activities* in the government-wide financial statements. By doing so, readers may better understand the long-term impact of the government's near-term financing decisions. Both the governmental fund balance sheet and the governmental fund statement of revenues, expenditures, and changes in fund balances provide a reconciliation to facilitate this comparison between *governmental funds* and *governmental activities*.

DRAFT 01.28.21 12PM

OVERVIEW OF THE FINANCIAL STATEMENTS, Continued

Fund Financial Statements, Continued

The City of Clayton maintains fifteen individual governmental funds. Information is presented separately in the government funds balance sheet and governmental funds statement of revenues, expenditures, and changes in fund balances for the General Fund, Landscape Maintenance District, Housing Successor Agency, and Capital Improvement Program, all of which are reported as major funds.

Proprietary Funds

The City of Clayton maintains two different types of proprietary funds. *Enterprise funds* are used to report the same functions presented as *business-type activities* in the government-wide financial statements. The City of Clayton uses an enterprise fund to account for its Endeavor Hall activities. *Internal service funds* are an accounting device used to accumulate and allocate costs internally among the City of Clayton various functions. City of Clayton uses three internal service funds to account for its capital equipment replacement program, self-insurance activities, and extraordinary employer pension contribution fluctuations. Because these services predominantly benefit governmental rather that business-type functions, they have been included within *governmental activities* in the government-wide financial statements.

Proprietary funds provide the same type of information as the government-wide financial statements, only in more detail. The City's sole enterprise fund is considered to be a major fund. The internal service funds are combined into a single, aggregated presentation in the proprietary fund financial statements.

Fiduciary Funds

The City is the fiscal agent for benefit assessment districts and other parties holding amounts collected which await payment as directed. The City's fiduciary activities are reported in the separate statement of fiduciary net position and the agency funds statement of assets and liabilities. These activities are excluded from the City's other financial statements because the City is acting as a trustee for these funds and cannot use these assets to finance its own operations. The City's fiduciary funds include a private-purpose trust fund to account for the activities of the City of Clayton Redevelopment Successor Agency.

Notes to the Financial Statements

The notes provide additional information that is essential to a full understanding of the data provided in the government-wide and fund financial statements. The notes to the financial statements can be found on pages 40-83 of this report.

DRAFT 01.28.21 12PM

OVERVIEW OF THE FINANCIAL STATEMENTS, Continued

Other Information

In addition to the basic financial statements and accompanying notes, this report also presents certain *required supplementary information* concerning the City's progress in funding its obligation to provide pension and other post-employment benefits to its employees as well as budgetary information for the General Fund and each of the major governmental funds.

FINANCIAL ANALYSIS GOVERNMENT-WIDE STATEMENTS

Analysis of Overall Net Position and Results of Operations

As noted previously, net position may serve over time as a useful indicator of a government's financial position. The City's total net position was $46,259,241 at June 30, 2020, which is an increase of $505,374 (1%) from the prior year's net position at June 30, 2019.

The largest portion of the City's net position reflects its investment in capital assets (e. g. land, buildings, etc.) net of any related debt used to acquire those assets that is still outstanding. The City uses these capital assets to provide services to citizens and these assets are *not* available for future spending. Although the City's investment in its capital assets is reported net of related debt, it should be noted that the resources needed to repay this debt must be provided from other sources, since the capital assets themselves cannot be used to liquidate these liabilities. The following is condensed comparative Statements of Net Position for the fiscal years ended June 30, 2020 and June 30, 2019:

	Governmental Activities 2020	Governmental Activities 2019	Business-Type Activities 2020	Business-Type Activities 2019	Total 2020	Total 2019
Assets						
Current Assets	$ 14,388,102	$ 13,257,979	$ (69,042)	$ (66,252)	$ 14,319,060	$ 13,191,727
Noncurrent Assets	6,359,697	6,464,874	-	-	6,359,697	6,464,874
Capital Assets	29,780,115	29,790,706	1,073,743	1,110,485	30,853,858	30,901,191
Total Assets	50,527,914	49,513,559	1,004,701	1,044,233	51,532,615	50,557,792
Deferred outflows	1,182,093	1,328,482	-	-	1,182,093	1,328,482
Liabilities						
Current Liabilities	606,265	612,424	5,777	6,501	612,042	618,925
Noncurrent Liabilities	5,484,655	5,314,518	-	-	5,484,655	5,314,518
Total Liabilities	6,090,920	5,926,942	5,777	6,501	6,096,697	5,933,443
Deferred inflows	358,770	198,964	-	-	358,770	198,964
Net Position						
Net investment in capital assets	29,780,115	29,790,706	1,073,743	1,110,485	30,853,858	30,901,191
Restricted	12,046,964	1,915,594	-	-	12,046,964	11,915,594
Unrestricted	3,433,238	3,009,835	(74,819)	(72,753)	3,358,419	2,937,082
Total net position	$ 45,260,317	$ 44,716,135	$ 998,924	$ 1,037,732	$ 46,259,241	$ 45,753,867

DRAFT 01.28.21 12PM

FINANCIAL ANALYSIS GOVERNMENT-WIDE STATEMENTS, Continued

Analysis of Overall Net Position and Results of Operations, Continued

Of the City's total net position, $12,046,964 (26.0%) represents resources that are subject to external restrictions on how they may be used. The balance of the *unrestricted net position* of $3,433,238 (7.3%) may be used to meet the City's ongoing obligations to citizens and creditors. City revenues for the year, including both governmental and business-type activities, were $8,609,891, while expenses totaled $8,104,517, resulting in a net increase to net position of $505,374 excluding transfers, extraordinary and special items. This net increase was primarily attributable to an increase in net position of governmental activities, which is discussed in greater detail in the following section.

The following is a recap of the City's Statement of Activities and Changes in Net Position for the fiscal years ended June 30, 2020 and June 30, 2019:

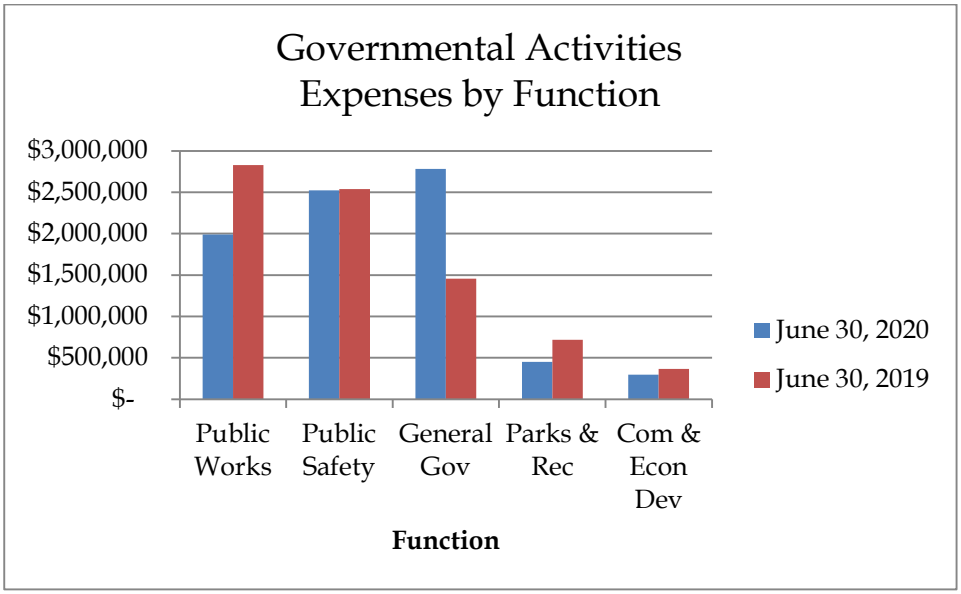
	Governmental Activities 2020	Governmental Activities 2019	Business-Type Activities 2020	Business-Type Activities 2019	Total 2020	Total 2019
Revenues:						
Program revenues:						
Charges for Services	$ 1,000,692	$ 963,255	$ 24,702	$ 24,642	$ 1,025,394	$ 987,897
Operating grants and contributions	1,024,732	825,018	-	-	1,024,732	825,018
Capital grants and contributions	559,220	570,049	-	-	559,220	570,049
Total program revenues	2,584,644	2,358,322	24,702	24,642	2,609,346	2,382,964
General revenues:						
Property taxes	2,587,812	2,463,898	-	-	2,587,812	2,463,898
Special parcel taxes	1,295,034	1,256,011	-	-	1,295,034	1,256,011
Sales and use taxes	512,868	483,741	-	-	512,868	483,741
Business license taxes	140,620	175,153	-	-	140,620	175,153
Franchise fees	565,893	523,129	-	-	565,893	523,129
Payments in lieu of taxes	167,677	164,331	-	-	167,677	164,331
Investment income	684,244	255,272	121	4	684,365	255,276
Miscellaneous	40,516	39,211	-	-	40,516	39,211
Gain (loss) on sale of assets	5,760	30,924	-	-	5,760	30,924
Total general revenues	6,000,424	5,391,670	121	4	6,000,545	5,391,674
Total revenues	8,625,068	7,749,992	24,823	24,646	8,609,891	7,774,638
Expenses:						
General government	1,516,739	1,457,326	-	-	1,516,739	1,457,326
Public works	2,735,012	2,825,969	-	-	2,735,012	2,825,969
Public safety	2,768,030	2,536,880	-	-	2,768,030	2,536,880
Community and economic development	296,372	367,682	-	-	296,372	367,682
Parks and recreation services	724,733	718,267	-	-	724,733	718,267
Endeavor Hall	-	-	63,631	58,455	63,631	58,455
Total expenses	8,040,886	7,906,124	63,631	58,455	8,104,517	7,964,579
Increase (decrease) in Net Position before transfers, special and extraordinary items	544,182	(156,132)	(38,808)	(33,809)	505,374	(189,941)
Extraordinary items	-	-	-	-	-	-
Change in Net Position	544,182	(156,132)	(38,808)	(33,809)	505,374	(189,941)
Net Position – Beginning	44,716,135	44,872,267	1,037,732	1,071,541	45,753,867	45,943,808
Net Position – ending	$ 45,260,317	$ 44,716,135	$ 998,924	$ 1,037,732	$ 46,259,241	$ 45,753,867

DRAFT 01.28.21 12PM

FINANCIAL ANALYSIS GOVERNMENT-WIDE STATEMENTS, Continued

Analysis of Governmental Activities

The increase in net position of the governmental activities over the prior year was primarily attributable to an increase in investment income. Total expenses were $8,040,886 in the current year compared to $7,906,124 in the prior year. The following chart depicts the relative size of expenses by function for the fiscal years ending June 30, 2020 and 2019:



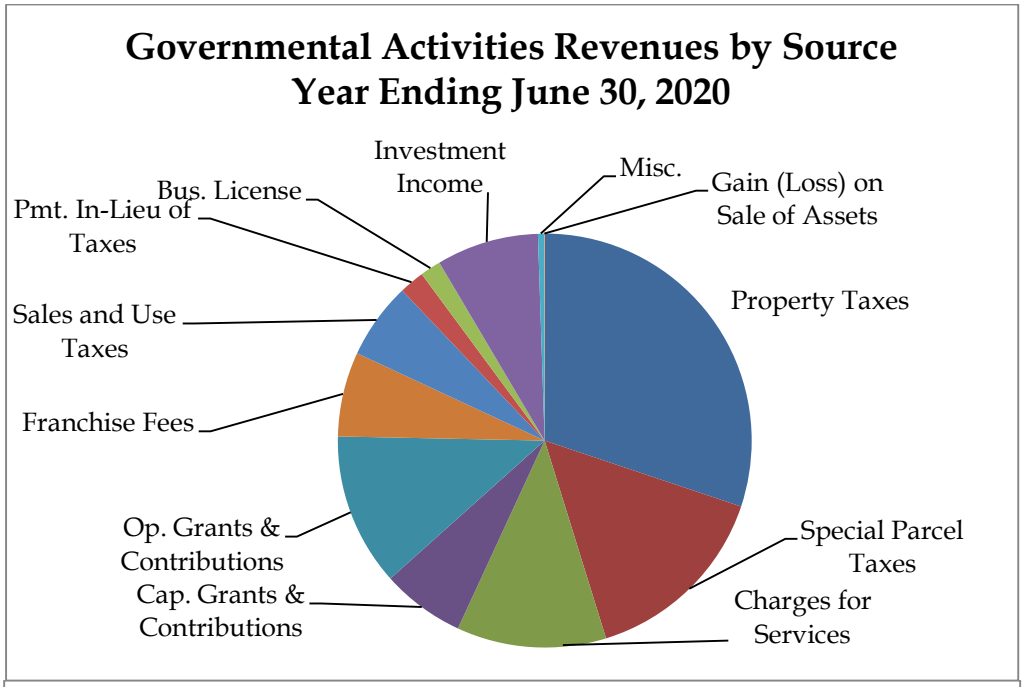
Total program revenues from governmental activities were $2,584,644 in the current year compared to $2,358,322 in the prior year. Program revenues are derived directly from the program itself or from parties outside the reporting government's taxpayers or citizenry. They reduce the net cost of the function to be financed from government's general revenues. Of the governmental program revenues, 38.1% were derived from charges for services, which includes park use fees, rental fees, licenses and permits, planning services fees, engineering plan check fees, police service fees, and other revenues. The remaining 61.9% of the governmental program revenues came from operating and capital grants and contributions. General revenues are all other revenues not categorized as program revenues such as property taxes, special parcel taxes, sales and use taxes, motor vehicle fees, investment earnings, franchise fees, use of money and property, service charges, and miscellaneous revenues.

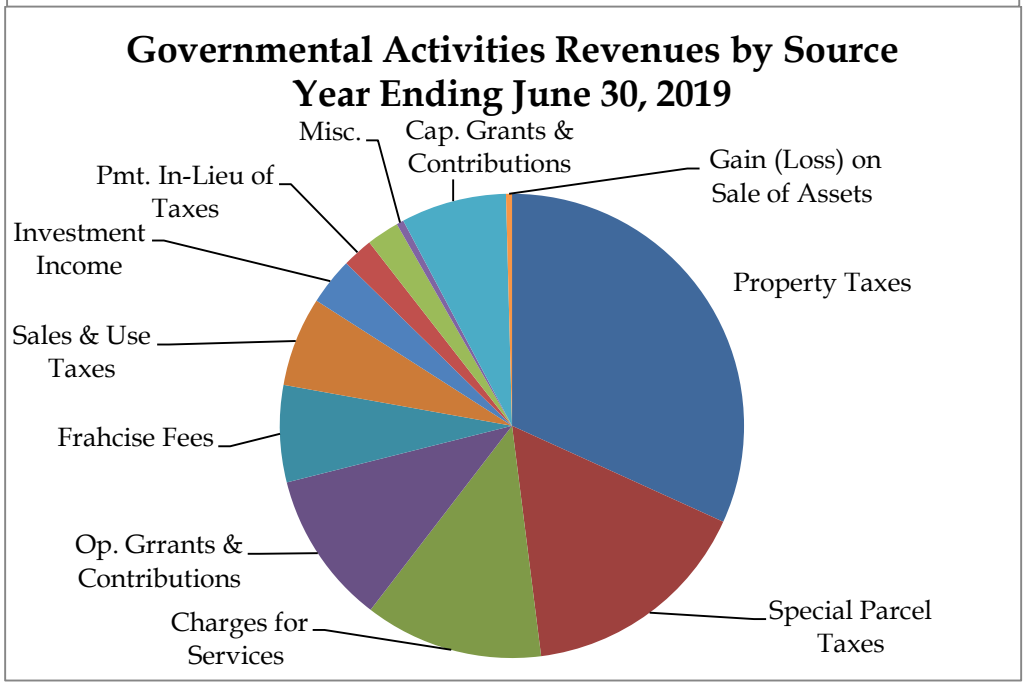
DRAFT 01.28.21 12PM

FINANCIAL ANALYSIS GOVERNMENT-WIDE STATEMENTS, Continued

Analysis of Governmental Activities, Continued

Total general revenues from governmental activities grew by $608,754 (11.3%) over the prior year. The following pie charts depict the relative size of governmental activities program and general revenues by source for the fiscal years ending June 30, 2020 and 2019:





DRAFT 01.28.21 12PM

FINANCIAL ANALYSIS GOVERNMENT-WIDE STATEMENTS, Continued

Analysis of Business-Type Activities

Total business-type expenses increased 8.9% from $58,445 in the prior year to $63,631 in the current year. This increase is largely attributable to the increase in operating costs of the Endeavor Hall rental facility. Total services revenue increased as well by 0.2%, from $24,642 in the prior year to $24,702 in the current year associated with a higher volume of discounted rentals to non-profits. Net position of business-type activities declined $38,808 to a total of $998,924 at June 30, 2020 due to charges for services being insufficient to cover the annual depreciation expense of underlying Endeavor Hall rental facility assets.

FINANCIAL ANALYSIS OF INDIVIDUAL FUND STATEMENTS

Analysis of Governmental Funds

The focus of the City of Clayton's *governmental funds* is to provide information on near-term inflows, outflows, and balances of *spendable* resources. Such information is useful in assessing the City of Clayton's financing requirements. In particular, *unassigned fund balance* may serve as a useful measure of a government's net resources available for spending at the end of the fiscal year.

As of the end of the current fiscal year, the City's governmental funds reported combined ending fund balances of $16,431,320. Of this amount, $5,631,359 (34.3%) is unassigned; $100,163 (0.6%) is in non-spendable form; $3,577,286 (21.2%) is assigned for specific purposes; $6,452,671 (39.3%) is restricted by law, regulation, or other outside contractual agreements; and $669,841(4.0%) is committed for specific expenditures in the future.

General Fund

The City's General Fund reported an increase in fund balance of $404,425 (7.0%) in the current fiscal year. This modest increase is mostly attributable to higher than expected investment results and an increase in property tax revenues. Total fund balance of the General Fund is $6,164,570 as of June 30, 2020, of which $5,654,925 (91.7%) is reported as unassigned and available for appropriation. This unassigned fund balance is 1.17 times the size of the General Fund's adopted operating budget for the upcoming fiscal year ending June 30, 2021.

Landscape Maintenance District

Community Facilities District No. 2007-1, referred to as the Landscape Maintenance District special revenue fund, reported a decrease in fund balance of $163,049 (13.3%) in the current fiscal year. This decrease in fund balance is largely attributable to increases in operating costs such as water service and weed abatement, as well as an increase in project costs. Total fund balance of the Landscape Maintenance District is $1,063,587 as of June 30, 2020, of which $499,700 (46.9%) is reported as assigned for the following year's operating budget.

DRAFT 01.28.21 12PM

FINANCIAL ANALYSIS OF INDIVIDUAL FUND STATEMENTS, Continued

Analysis of Governmental Funds, Continued

Successor Housing Agency

The Successor Housing Agency special revenue fund reported a increase in fund balance of $303,391 in the current fiscal year. This increase in fund balance resulted primarily from unspent program revenue on housing loan repayments as well as unrealized gains on the inventory of affordable income housing. Total fund balance of the Successor Housing Agency is $4,957,952 as of June 30, 2020, which is classified entirely as restricted.

Capital Improvement Program

The Capital Improvement Program capital projects fund reported a decrease in fund balance of $148,700 (8.2%) in the current fiscal year. This decrease in fund balance primarily arose from timing differences between project execution and funding. Total fund balance of the Capital Improvement Program fund is $1,663,367 and is reported entirely as assigned for capital projects as of June 30, 2020.

Analysis of Proprietary Funds

The City of Clayton's proprietary funds provide the same type of information found in the government-wide financial statements, but in more detail. The net position of the City's only major enterprise fund, Endeavor Hall, at the end of the year was $998,924, and total net position for the internal service funds amounted to $998,215.

GENERAL FUND BUDGETARY HIGHLIGHTS

General Fund actual revenues and transfers exceeded total revenues of the final budget by $211,069 (4.4%), which exceeds the adopted fiscal year 2020 budget projection of a $46,643 planned decrease in fund balance. The remainder of the increase was from better than expected investment results and an unrealized investment gain. The unrealized investment gain was reported as a direct result of the City's investment portfolio being largely made up of fixed instrument securities during a time of declining interest rates. As noted in recent quarterly investment portfolio reports presented to the City Council, the City's investment policy is designed to reduce volatility and generate consistent returns in the long run in order to protect public funds. Actual property tax revenues exceeded somewhat conservative adopted budgetary growth projections by 3.1%, which was largely offset by lower than expected revenue from permits, licenses and fees.

DRAFT 01.28.21 12PM

GENERAL FUND BUDGETARY HIGHLIGHTS, Continued

Actual General Fund expenditures of $4,599,493 were less than the final adjusted budget by $211,350 (4.4%) for the year ended June 30, 2020. The positive variance is a result of actual expenditures being less than budgeted in Parks and Recreation, Community and Economic Development, and Public Safety.

CAPITAL ASSET AND DEBT ADMINISTRATION

Capital Assets

The City's investment in capital assets for its governmental and business-type activities as of June 30, 2020 amounted to $30,853,858 (net of accumulated depreciation). This investment in capital assets includes land, building, improvements, machinery and equipment, park facilities, corporate yard building, and roads. Total depreciation expense on governmental assets totaled $1,068,773, versus $1,043,662 in the prior year. The increase in depreciation is attributable to the completion of significant capital projects during the prior and current fiscal years. Additional information on the City of Clayton's capital assets can be found in Note 5 of this report.

Debt Administration

The remaining debt of the former Clayton Redevelopment Agency (RDA) of $5,835,000 was transferred to the Successor Agency on February 1, 2012 (fiscal year ending June 30, 2012). The City has no outstanding general obligation debt. The Successor Agency has maintained its "AAA" credit rating (S&P) on outstanding Tax Allocation Bonds. Additional information on the Successor Agency's long-term debt can be found in Note 12 of this report.

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET

As the City of Clayton is largely a residential community the annual General Fund operating budget relies heavily on property taxes to finance annual operating appropriations rather than other sources of revenue larger and more commercially and industrial developed municipalities have access to (i. e. sales and transient occupancy taxes). The City strives to meet the ever evolving needs of local residents and businesses within the constraints of limited and sometimes restrictive revenue sources.

There was an increase in adopted General Fund operating appropriations for the upcoming fiscal year ending June 30, 2021 of $69,356 (1.5%). The increase in appropriations is attributable primarily to labor wage and benefit costs of various City departments. The annual June 2019 to June 2020 consumer price index inflationary factor is 1.6% as published by the U. S. Bureau of Labor and Statistics for the San Francisco-Oakland-Hayward region. In addition, there are projected 7%/0.3% decreases, due to employee turnover, in payments to CalPERS for unfunded liabilities and normal cost, respectively. The adopted budget for the fiscal year ending June 30, 2021 projects total General Fund revenues of $4,844,231, an increase of approximately

DRAFT 01.28.21 12PM

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET, Continued

$30,031 (0.6%) over the prior year adopted budget. The projected revenue growth reflects continued growth in property tax and sales and use taxes supported by actual results reported in the fiscal year ending June 30, 2020.

REQUEST FOR INFORMATION

This financial report is designed to provide a general overview of the City of Clayton's finances for all those with an interest in the City's finances. Questions concerning any of the information provided in this report, or requests for additional financial information, should be addressed to the Office of the Finance Manager, 6000 Heritage Trail, Clayton, California 94517.

DRAFT 01.28.21 12PM

GOVERNMENT-WIDE FINANCIAL STATEMENTS

DRAFT 01.28.21 12PM

City of Clayton
Government-Wide
Statement of Net Position
June 30, 2020

	Governmental Activities	Business-Type Activites	Total
ASSETS			
Current Assets:			
Cash and investments	$ 13,449,436	$ 210	$ 13,449,646
Accounts receivable (net of allowances)	795,358	-	795,358
Interest receivable	43,145	-	43,145
Internal balances	69,252	(69,252)	-
Prepaid expenses	30,911	-	30,911
Total Current Assets	14,388,102	(69,042)	14,319,060
Noncurrent Assets:			
Investment in affordable housing	2,654,293	-	2,654,293
Notes receivable	3,705,404	-	3,705,404
Nondepreciable assets	3,196,235	167,738	3,363,973
Depreciable assets, net	26,583,880	906,005	27,489,885
Total Noncurrent Assets	36,139,812	1,073,743	37,213,555
Total Assets	50,527,914	1,004,701	51,532,615
DEFERRED OUTFLOWS OF RESOURCES			
Deferred outflows related to pension	1,137,476	-	1,137,476
Deferred outflows related to OPEB	44,617	-	44,617
Total Deferred Outflows of Resources	1,182,093	-	1,182,093
LIABILITIES			
Current Liabilites:			
Accounts payable	460,523	2,777	463,300
Deposits payable	-	3,000	3,000
Accrued payroll	71,753	-	71,753
Unearned revenue	-	-	-
Compensated absences payable	73,847	-	73,847
Other liabilities	142	-	142
Total Current Liabilities	606,265	5,777	612,042
Noncurrent Liabilites:			
Compensated absences payable	73,847	-	73,847
Net OPEB liability	535,900	-	535,900
Net pension liability	4,874,908	-	4,874,908
Total Noncurrent Liabilities	5,484,655	-	5,484,655
Total Liabilities	6,090,920	5,777	6,096,697
DEFERRED INFLOWS OF RESOURCES			
Deferred inflows related to pension	328,817	-	328,817
Deferred inflows related to OPEB	29,953	-	29,953
Total Deferred Inflows of Resources	358,770	-	358,770
NET POSITION			
Net investment in capital assets	29,780,115	1,073,743	30,853,858
Restricted for special projects and programs	12,046,964	-	12,046,964
Unrestricted	3,433,238	(74,819)	3,358,419
Total Net Position	$ 45,260,317	$ 998,924	$ 46,259,241

The accompanying notes are an integral part of the financial statements

DRAFT 01.28.21 12PM

City of Clayton
Government-Wide
Statement of Activities and Changes in Net Position
For the year ended June 30, 2020

Functions/Programs	Expenses	Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions	Governmental Activities	Business-type Activities	Total
Primary Government:							
Governmental Activities							
General government	$ 1,516,739	$ 438,906	$ 14,941	$ -	$ (1,062,892)	$ -	$ (1,062,892)
Public safety	2,768,030	65,674	245,250	-	(2,457,106)	-	(2,457,106)
Public works	2,735,012	338,877	767,839	559,220	(1,069,076)	-	(1,069,076)
Community and economic development	296,372	113,600	(5,298)	-	(188,070)	-	(188,070)
Parks and recreation services	724,733	43,635	2,000	-	(679,098)	-	(679,098)
Total Governmental Activities	8,040,886	1,000,692	1,024,732	559,220	(5,456,242)	-	(5,456,242)
Business-Type Activities							
Endeavor Hall	63,631	24,702	-	-	-	(38,929)	(38,929)
Total Business-Type Activities	63,631	24,702	-	-	-	(38,929)	(38,929)
Total Primary Government	$ 8,104,517	$ 1,025,394	$ 1,024,732	$ 559,220	(5,456,242)	(38,929)	(5,495,171)
		General revenues:					
		Taxes:					
		Property taxes			2,587,812	-	2,587,812
		Special parcel taxes			1,295,034	-	1,295,034
		Sales and use taxes			512,868	-	512,868
		Business license taxes			140,620	-	140,620
		Total Taxes			4,536,334	-	4,536,334
		Franchise fees			565,893	-	565,893
		Payments in lieu of taxes			167,677	-	167,677
		Investment income (loss)			684,244	121	684,365
		Other miscellaneous general revenues			40,516	-	40,516
		Gain (loss) on disposal of fixed assets			5,760	-	5,760
		Total general revenues and transfers			6,000,424	121	6,000,545
		Change in net position			544,182	(38,808)	505,374
		Net position - beginning			44,716,135	1,037,732	45,753,867
		Net position - ending			$ 45,260,317	$ 998,924	$ 46,259,241

The accompanying notes are an integral part of the financial statements

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

FUND FINANCIAL STATEMENTS

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

GOVERNMENTAL FUNDS

Governmental Funds are used to account for activities primarily supported by taxes, grants, and similar revenue sources. All governmental funds can be classified into one of five fund types: the General Fund, special revenue funds, debt service funds, capital projects funds, and permanent funds.

General Fund:

The General Fund is the main operating fund of the City and is presented as a major fund. It is used to account for all financial resources except those required to be accounted for in another fund.

Special Revenue Funds:

Special revenue funds account for and report the proceeds of specific revenue sources that are restricted or committed to expenditure for specified purposes other than debt service or capital projects. The following are reported as major special revenue funds:

Landscape Maintenance District - Community Facilities District (CFD) No. 2007-1, referred to as the Landscape Maintenance District special revenue fund, accounts for real property voter-approved special parcel taxes collected to maintain arterial landscaping and open space within the City (CFD No. 2007-1 sunsets in 2027).

Successor Housing Agency - Accounts for the activities related to the assets assumed by the City of Clayton as the Housing Successor to the housing activities of the former Redevelopment Agency of the City of Clayton.

Capital Projects Funds:

Capital projects funds are used to account for financial resources to be used for the acquisition or construction of major capital facilities other than those financed by proprietary funds. The following is the City's sole major capital projects fund:

Capital Improvement Program - Accounts for the projects identified in the capital improvement program funded by various federal and state grants as well as through transfers from the General Fund.

Non-major Governmental Funds:

All non-major governmental funds of the City are aggregated and presented on the face of the basic financial statements in one column.

DRAFT 01.28.21 12PM

City of Clayton
Governmental Funds
Balance Sheet
June 30, 2020

	General Fund	Special Revenue: Landscape Maintenance District	Special Revenue: Successor Housing Agency
ASSETS			
Cash and investments	$ 5,923,843	$ 1,198,819	$ 1,538,255
Accounts receivable	617,811	-	-
Interest receivable	43,145	-	-
Investment in affordable housing	-	-	2,654,293
Notes receivable	-	-	3,705,404
Prepaid items	30,911	-	-
Due from other funds	69,252	-	-
Advance to other funds	-	-	-
Total Assets	$ 6,684,962	$ 1,198,819	$ 7,897,952
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND FUND BALANCES			
Liabilities:			
Accounts payable	$ 109,104	$ 135,232	$ -
Other payables	142	-	-
Accrued payroll	71,753	-	-
Compensated absences	73,847	-	-
Total Liabilities	254,846	135,232	-
Deferred Inflows of Resources:			
Deferred revenue	265,546	-	2,940,000
Total Deferred Inflows of Resources	265,546	-	2,940,000
Fund Balance:			
Non-spendable	100,163	-	-
Restricted	-	563,887	4,957,952
Committed	-	-	-
Assigned	409,482	499,700	-
Unassigned	5,654,925	-	-
Total Fund Balance	6,164,570	1,063,587	4,957,952
Total Liabilities, Deferred Inflows of Resources and Fund Balances	$ 6,684,962	$ 1,198,819	$ 7,897,952

DRAFT 01.28.21 12PM

City of Clayton
Governmental Funds
Balance Sheet
June 30, 2020

Capital Project Capital Improvement Program	Other Governmental Funds	Total
$ 1,723,048	$ 2,560,803	$ 12,944,768
97,338	80,209	795,358
-	-	43,145
-	-	2,654,293
-	-	3,705,404
-	-	30,911
-	-	69,252
-	-	-
$ 1,820,386	$ 2,641,012	$ 20,243,131
$ 157,019	$ 59,168	$ 460,523
-	-	142
-	-	71,753
-	-	73,847
157,019	59,168	606,265
-	-	3,205,546
-	-	3,205,546
-	-	100,163
-	930,832	6,452,671
-	669,841	669,841
1,663,367	1,004,737	3,577,286
-	(23,566)	5,631,359
1,663,367	2,581,844	16,431,320
$ 1,820,386	$ 2,641,012	$ 20,243,131

DRAFT 01.28.21 12PM

The accompanying notes are an integral part of the financial statements

This page intentionally left blank

DRAFT 01.28.21 12PM

City of Clayton
Reconciliation of Governmental Funds Balance Sheet to the Statement of Net Position
June 30, 2020

Total Fund Balances - Governmental Funds	$	16,431,320

Amounts reported for governmental activities in the Statement of Net Position are different because:

CAPITAL ASSETS	
Capital assets used in governmental activities are not current financial resources and therefore are not reported in the Governmental Funds Balance Sheet.	
Non-depreciable capital assets	3,196,235
Depreciable capital assets (net of internal service fund assets of $493,547)	26,090,333
ACCRUAL OF NON-CURRENT REVENUES AND EXPENSES	
Unavailable revenue which are deferred inflows of resources in the Governmental Funds because they are not available currently, but are taken into revenue in the statement of activities.	3,205,546
LONG-TERM ASSETS AND LIABILITIES	
Long-term liabilities are not due and payable in the current period and therefore are not reported in the Governmental Funds Balance Sheet.	
Net OPEB liability not reported on the Governmental Funds Balance Sheet	(535,900)
Compensated absences payable	(73,847)
Net pension liability not reported on the Governmental Funds Balance Sheet	(4,874,908)
DEFERRED INFLOWS AND OUTFLOWS	
Deferred inflows/(outflows) of resources for not reported on the Governmental Funds Balance Sheet	
Deferred outflows of resources for net pension liability	1,137,476
Deferred inflows of resources for net pension liability	(328,817)
Deferred outflows of resources for net OPEB liability	44,617
Deferred inflows of resources for net OPEB liability	(29,953)
ALLOCATION OF INTERNAL SERVICE FUND NET POSITION	
Internal service funds are used by management to charge the costs of certain activities to individual funds. The assets and liabilities of the internal service funds are included in the governmental activities in the Government-wide Statement of Net Position.	998,215
Net Position of Governmental Activities	$ 45,260,317

DRAFT 01.28.21 12PM

City of Clayton
Governmental Funds
Statement of Revenues, Expenditures and Changes in Fund Balance
For the year ended June 30, 2020

	General Fund	Special Revenue: Landscape Maintenance District	Special Revenue: Successor Housing Agency
REVENUES			
Property taxes	$ 2,587,812	$ -	$ -
Program income	-	-	101,400
Special parcel taxes and assessments	-	1,156,944	-
Sales and use taxes	512,868	-	-
Business licenses	140,620	-	-
Permits, licenses and fees	153,629	-	-
Fines, forfeitures and penalties	93,556	-	-
Intergovernmental	103,940	-	-
Motor vehicle in-lieu fees	-	-	-
Other in-lieu fees	167,677	-	-
Franchise fees	565,893	-	-
Service charges	324,893	-	-
Use of money and property	224,202	44,185	27,848
Other revenue	30,489	1,805	-
Total Revenues	4,905,579	1,202,934	129,248
EXPENDITURES			
Current:			
General government	1,280,349	-	-
Public safety	2,346,730	-	-
Public works	354,189	1,034,174	-
Community and economic development	258,637	-	37,618
Parks and recreation services	359,588	-	-
Capital outlay	-	291,959	-
Total Expenditures	4,599,493	1,326,133	37,618
Excess (Deficiency) of Revenues Over (Under) Expenditures	306,086	(123,199)	91,630
OTHER FINANCING SOURCES (USES)			
Unrealized gains (losses)	-	-	211,761
Transfers in	119,690	-	-
Transfers out	(21,351)	(39,850)	-
Total Other Financing Sources (Uses)	98,339	(39,850)	211,761
Net Change in Fund Balances	404,425	(163,049)	303,391
FUND BALANCES			
Beginning of year	5,760,145	1,226,636	4,654,561
End of fiscal year	$ 6,164,570	$ 1,063,587	$ 4,957,952

DRAFT 01.28.21 12PM

The accompanying notes are an integral part of the financial statements

City of Clayton
Governmental Funds
Statement of Revenues, Expenditures and Changes in Fund Balance
For the year ended June 30, 2020

Capital Project Capital Improvement Program	Other Governmental Funds	Total
$ -	$ -	$ 2,587,812
-	-	101,400
-	425,289	1,582,233
-	-	512,868
-	-	140,620
-	64,490	218,119
-	-	93,556
518,628	941,144	1,563,712
-	-	-
-	-	167,677
-	-	565,893
-	-	324,893
57,868	99,690	453,793
-	1,000	33,294
576,496	1,531,613	8,345,870
-	37,071	1,317,420
-	116,600	2,463,330
-	465,242	1,853,605
-	-	296,255
-	92,947	452,535
759,680	24,167	1,075,806
759,680	736,027	7,458,951
(183,184)	795,586	886,919
-	-	211,761
34,484	3,640	157,814
-	(96,613)	(157,814)
34,484	(92,973)	211,761
(148,700)	702,613	1,098,680
1,812,067	1,879,231	15,332,640
$ 1,663,367	$ 2,581,844	$ 16,431,320

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

City of Clayton
Reconciliation of Governmental Funds Statement of Revenues, Expenditures and Changes in Fund Balances to the Statement of Activities and Changes in Net Position
For the year ended June 30, 2020

Net Change in Fund Balances - Total Governmental Funds	$	1,098,680
Amounts reported for governmental activities in the Statement of Activities are different because:		
ACCRUAL OF NON-CURRENT ITEMS		
The amounts below included in the Statement of Activities do not provide (or require) the use of current financial resources and therefore are not reported as revenue or expenditures in the Governmental Funds (net change).		
Net change in post-employment benefits (OPEB) liability and deferred inflows (outflows)		20,062
Long-term compensated absences payable		(2,198)
Net change in pension liability and deferred inflows (outflows).		(494,195)
Unavailable revenues		(109,256)
CAPITAL ASSET TRANSACTIONS		
Governmental Funds report capital outlays as expenditures. However in the Statement of Activities the cost of those assets is capitalized and allocated over their estimated useful lives and reported as depreciation expense.		
Capital asset acquisition, excluding internal service fund asset acquisitions.		966,480
Depreciation expense is deducted from the fund balance (Net of internal service fund depreciation of $88,453).		(980,320)
ALLOCATION OF INTERNAL SERVICE FUND ACTIVITY		
Internal service funds are used by management to charge the costs of certain activities, such as insurance and fleet management, to individual funds. The net gain or loss of the internal service funds is reported with governmental activities.		44,929
Change in Net Position of Governmental Activities on Statement of Activities	$	544,182

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

PROPRIETARY FUNDS

Proprietary funds account for City operations financed and operated in a manner similar to a private business enterprise. The intent of the City is that the cost of providing goods and services be financed primarily through user charges. The City's proprietary funds can be classified into two fund types: enterprise and internal service funds.

Enterprise Funds:

Enterprise funds are used to report any activity for which a fee is charged to external users for goods or services. The following is the City's sole major enterprise fund:

> ***Endeavor Hall –*** Accounts for all rental activities related to operation of the underlying rental facility asset. The primary use of the rental facility has been for wedding receptions and other formal special events.

Internal Service Funds:

The City's internal service funds account for activities that provide goods or services to other City funds, departments, or agencies on a cost reimbursement basis. All internal service funds of the City are aggregated and presented on the face of the proprietary fund financial statements in one column.

DRAFT 01.28.21 12PM

City of Clayton
Proprietary Funds
Statement of Net Position
June 30, 2020

	Business-type Activities - Endeavor Hall	Governmental Activities - Internal Service
ASSETS		
Current assets:		
Cash and investments	$ 210	$ 504,668
Noncurrent assets		
Land	167,738	-
Depreciable assets, net	906,005	493,547
Total Assets	1,073,953	998,215
LIABILITIES		
Current liabilities:		
Accounts payable	2,777	-
Other payables	-	-
Deposits payable	3,000	-
Due to other funds	69,252	-
Total Liabilities	75,029	-
NET POSITION		
Net investment in capital assets	1,073,743	493,547
Unrestricted	(74,819)	504,668
Total Net Position	$ 998,924	$ 998,215

DRAFT 01.28.21 12PM

The accompanying notes are an integral part of the financial statements

City of Clayton
Proprietary Funds
Statement of Revenues, Expenses and Changes in Net Position
For the year ended June 30, 2020

	Business-type Activities - Endeavor Hall	Governmental Activities - Internal Service Funds
OPERATING REVENUES		
Charges for current services	$ 24,702	$ 112,100
Total Operating Revenues	24,702	112,100
OPERATING EXPENSES		
Personnel	9,288	-
General and administrative	17,601	3,311
Depreciation and amortization	36,742	88,453
Total Operating Expenses	63,631	91,764
Operating Income (Loss)	(38,929)	20,336
NONOPERATING REVENUES (EXPENSES)		
Gain (loss) on disposal of assets	-	5,760
Investment income	121	18,833
Total Nonoperating Revenues (Expenses)	121	24,593
Net (loss) Before Contributions and Operating Transfers	(38,808)	44,929
Capital contributions	-	-
Transfers in / (out)	-	-
Change in Net Position	(38,808)	44,929
NET POSITION:		
Beginning of fiscal year	1,037,732	953,286
End of fiscal year	$ 998,924	$ 998,215

The accompanying notes are an integral part of the financial statements

DRAFT 01.28.21 12PM

City of Clayton
Proprietary Funds
Statement of Cash Flows
For the year ended June 30, 2020

	Business-type Activities - Endeavor Hall	Governmental Activities - Internal Service Funds
CASH FLOWS FROM OPERATING ACTIVITIES:		
Receipts from customers	$ 22,202	$ 112,100
Payments to suppliers	(15,825)	-
Payments to employees	(9,288)	-
Claims paid	-	(3,311)
Net cash provided (used) by operating activities	(2,911)	108,789
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES:		
Transfers in / (out)	-	-
Net cash provided by noncapital financing activities	-	-
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES:		
Acquisition of fixed assets	-	(91,701)
Proceeds from the sale of capital assets	-	5,760
Net cash provided (used) by capital and related financing activities	-	(85,941)
CASH FLOWS FROM INVESTING ACTIVITIES:		
Interest received on investments	121	18,833
Net Cash provided by investing activities	121	18,833
Net increase (decrease) in cash and cash equivalents	(2,790)	41,681
CASH AND CASH EQUIVALENTS:		
Beginning of fiscal year	3,000	462,987
End of fiscal year	$ 210	$ 504,668
RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH PROVIDED (USED) BY OPERATING ACTIVITIES:		
Operating income (loss)	$ (38,929)	$ 20,336
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:		
Depreciation and amortization	36,742	88,453
Changes in current assets and liabilities:		
Increase (decrease) in accounts payable	1,776	-
Increase (decrease) in deposits payable	(2,500)	-
Increase (decrease) in interfund payables	-	-
Net cash provided (used) by operating activities	$ (2,911)	$ 108,789

DRAFT 01.28.21 12PM

The accompanying notes are an integral part of the financial statements

FIDUCIARY FUNDS

Fiduciary funds report assets held in a trustee or agency capacity for others and therefore cannot be used to support the government's own programs. The City's fiduciary funds can be classified into two fund types: agency and private purpose trust funds.

Agency Funds:

Agency funds are custodial in nature (assets equal liabilities) and do not involve measurements of results of operations. They are used to account for assets held in an agency capacity for others and therefore cannot be used to support the City's program. Agency funds are accounted for using the economic resources measurement focus and the accrual basis of accounting.

Private Purpose Trust Funds

Private purpose trust funds account for resources held by the City as trustee for third party beneficiaries, and are used to report both the Fiduciary Net Position and Changes in Fiduciary Net Position for the Successor Agency for the former Redevelopment Agency. Private Purpose Trust Funds are accounted for under the full accrual basis of accounting.

DRAFT 01.28.21 12PM

City of Clayton
Fiduciary Funds
Statement of Fiduciary Net Position
June 30, 2020

	Private Purpose Trust Fund	
	Redevelopment Successor Agency	Agency Funds
ASSETS		
Cash and investments	$ 767,071	$ 2,034,003
Cash and investments with fiscal agents	13	368,164
Accounts receivable	-	28,460
Prepaid expenses	2,178	2,541
Assessments receivable	-	1,532,076
Notes receivable	70,751	-
Investment in bonds	-	1,313,000
Total Assets	840,013	$ 5,278,244
LIABILITIES		
Accounts payable	2,178	$ 15,895
Other liabilities	-	1,754,988
Deposits payable	-	785,285
Accrued interest payable	18,450	-
Advance from Successor Housing Agency	148,103	-
Notes payable	-	70,751
Bonds payable	1,925,000	2,651,325
Total Liabilities	2,093,731	$ 5,278,244
DEFERRED INFLOWS OF RESOURCES		
Deferred notes receivables	-	
Total Deferred Inflows of Resources	-	
NET POSITION		
Held in trust for others	(1,253,718)	
Total Net Position	$ (1,253,718)	

DRAFT 01.28.21 12PM

The accompanying notes are an integral part of the financial statements

City of Clayton
Fiduciary Funds
Statement of Changes in Fiduciary Net Position
For the year ended June 30, 2020

	Private Purpose Trust Fund Redevelopment Successor Agency
ADDITIONS	
Tax increment revenue	$ 864,579
Program revenue	2,712
Investment gain	19,117
Total Additions	886,408
DEDUCTIONS	
Interest expense	45,068
Administrative costs	250,000
Other expenses	2,176
Total Deductions	297,244
Changes in Net Position	589,164
NET POSITION	
Beginning of Year	(1,842,882)
End of Year	$ (1,253,718)

DRAFT 01.28.21 12PM

The accompanying notes are an integral part of the financial statements

This page intentionally left blank

DRAFT 01.28.21 12PM

NOTES TO THE BASIC FINANCIAL STATEMENTS

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The basic financial statements of the City of Clayton, California (City) have been prepared in conformity with generally accepted accounting principles (US GAAP) as applied to governmental agencies. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the City's accounting policies are described below.

Reporting Entity

The City of Clayton (City) is primarily a residential community nestled in the foothills of Mount Diablo in Contra Costa County, California. The City was incorporated on March 3, 1964 under the laws of the State of California, and encompasses approximately four square miles with a population of 11,700. The City operates under the Council-Manager form of government, with five elected Council members served by a full-time City Manager and a staff of twenty-six (26) full-time employees providing the following services: public works, parks and recreation services, community and economic development, public safety, and general government. The City's public safety program is served by an in-house police force of eleven (11) full-time sworn police officers supported by two (2) full-time administrative personnel.

The basic financial statements include the financial activities of the City, Successor Agency to the Clayton Redevelopment Agency (Successor Agency) and the Clayton Financing Authority (Authority).

The City is the primary government unit. Component units are those entities which are financially accountable to the primary government, either because the City appoints a voting majority of the component unit's board, or because the component unit will provide a financial benefit or impose a financial burden on the City. The Clayton Redevelopment Agency ("RDA"), which was dissolved as of February 1, 2012 was accounted for as a "blended" component unit of the City. Despite being legally separate, this entity was so intertwined with the City that it is, in substance, part of the City's operations. Accordingly, the balances and transactions of this component unit were reported within the funds of the City. Upon the dissolution of the RDA, the RDA ceased to be reported as a blended component unit and was replaced by the Successor Agency, which is reported as a private purpose trust fund in the fiduciary fund section of the financial statements.

The Authority is a joint exercise of powers authority duly organized and existing under and pursuant to that certain Joint Exercise of Powers Agreement, by and between the City and the former RDA of the City of Clayton with the City Council serving as the Board of Directors. It was created by the City of Clayton City Council in 1990 with the primary purpose of issuing bonded obligations to finance capital projects within the community for which repayment is secured by pledges of revenue from legally separate and distinct districts. The activities of the Authority are reported in the fiduciary fund financial statement section as the Authority's debt is secured entirely by third parties that are not part of the primary government of the City and the City has no obligation for such debt. Separate financial statements of the Authority are available at the City's website at www. ci. clayton. ca. gov.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Basis of Accounting and Measurement Focus

The accounts of the City are organized on the basis of funds, each of which is considered a separate accounting entity. The operations of each fund are accounted for with a separate set of self-balancing accounts that comprise its assets, liabilities, fund equity, revenues, and expenditures or expenses as appropriate. Government resources are allocated to and accounted for in individual funds based upon the purpose for which they are to be spent and the means by which spending activities are controlled.

Government-Wide Financial Statements

The government-wide financial statements include a Statement of Net Position and a Statement of Activities. These statements present summaries of governmental and business type activities for the City, the primary government. Fiduciary activities of the City are not included in these statements.

These financial statements are presented on an "*economic resources*" measurement focus and the accrual basis of accounting. Accordingly, all of the City's assets and liabilities, including capital assets and related infrastructure assets and long-term liabilities, are included in the accompanying Statement of Net Position. The Statement of Activities presents changes in net position.

Under the accrual basis of accounting, revenues are recognized in the period in which they are earned while expenses are recognized in the period in which the liability is incurred.

Certain types of transactions are reported as program revenues for the City in three categories:

- Charges for services
- Operating grants and contributions
- Capital grants and contributions

Certain eliminations have been made in regards to inter-fund activities, payables and receivables. All internal balances in the statement of net position have been eliminated in the statement of activities; internal service fund transactions have been eliminated. However, those transactions between governmental and business-type activities have not been eliminated. The following inter-fund activities have been eliminated:

- Advances to/from other funds
- Due to/from other funds
- Transfers in/out

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Basis of Accounting and Measurement Focus, Continued

Governmental fund financial statements include a balance sheet and a statement of revenues, expenditures and changes in fund balances for all major governmental funds and non-major funds aggregated. An accompanying schedule is presented to reconcile and explain the differences in fund balances as presented in these statements to the net position as presented in the government-wide financial statements. The City has presented all major funds that met the applicable criteria.

Governmental Fund Financial Statements

All governmental funds are accounted for on a spending or "*current financial resources*" measurement focus and the modified accrual basis of accounting. Accordingly, only current assets and current liabilities are included on the Balance Sheet. The statement of revenues, expenditures and changes in fund balances present increases (revenue and other financing sources) and decreases (expenditures and other financing uses) in net current assets. Under the modified accrual basis of accounting, revenues are recognized in the accounting period in which they become both measurable and available to finance expenditures of the current period.

Revenues are recorded when received in cash, except those revenues subject to accrual (generally sixty [60] days after year-end) are recognized when due. The primary revenue sources, which have been treated as susceptible to accrual by the City, are property tax, sales tax, intergovernmental revenues, and other taxes. Revenues from other governmental agencies (excluding property taxes) are deemed to be available if received within one hundred eighty (180) days after fiscal year end. Expenditures are recorded in the accounting period in which the related fund liability is incurred.

Deferred revenues arise when potential revenues do not meet both the "measurable" and "available" criteria for recognition in the current period. Deferred revenues also arise when the government receives resources before it has a legal claim to them, as when grant monies are received prior to incurring qualifying expenditures. In subsequent periods when both revenue recognition criteria are met or when the government has a legal claim to the resources, the deferred revenue is removed from the balance sheet and revenue is recognized.

The reconciliation of the fund financial statements to the government-wide financial statements is provided to explain the differences created by the integrated approach of *GASB Statement No. 34*. The City has the following major governmental funds:

General Fund - This fund is the general operating fund of the City. It is used to account for all financial resources except those that are required to be accounted for in another fund.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Basis of Accounting and Measurement Focus, Continued

Landscape Maintenance District – This special revenue fund accounts for the Community Facility District No. 2007-1 restricted special parcel tax approved over two-thirds the local electorate in the June 2016 election through the passing of "Measure H." This special parcel tax is restricted to fund the operation, maintenance, and improvement of specific city-wide public landscaped areas.

Successor Housing Agency – This special revenue fund accounts for the City's low and moderate housing program, which was assumed by the by City Council action upon dissolution of the former redevelopment agency. Program revenue of this fund is primarily generated through the repayment on low-moderate income housing loans.

Capital Improvement Program - This capital projects fund accounts for the projects identified in the capital improvement program funded by various federal and state grants as well as through transfers from the General Fund.

Proprietary Fund Financial Statements

Proprietary fund financial statements include a statement of net position, a statement of revenues, expenses and change in fund net position, and a statement of cash flows for all proprietary funds. Internal service funds are presented in these statements. However, internal service balances and activities have been combined with the governmental activities in the government-wide financial statements.

Proprietary funds are accounted for using the "*economic resources*" measurement focus and the accrual basis of accounting. Accordingly, all assets and liabilities (whether current or noncurrent) are included on the statement of net position. The statement of revenues, expenses and changes in fund net position present increases (revenues) and decreases (expenses) in total net position. Under the accrual basis of accounting, revenues are recognized in the period in which they are earned while expenses are recognized in the period in which liability is incurred. Operating revenues in the proprietary funds are those revenues that are generated from the primary operations of the fund. All other revenues are reported as non-operating revenues. Operating expenses are those expenses that are essential to the primary operations of the fund. All other expenses are reported as nonoperating expenses.

The City has the following major enterprise fund:

Endeavor Hall - This fund accounts for all activities related to use of the facility. The primary use has been for wedding receptions.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Basis of Accounting and Measurement Focus, Continued

The City has the following internal service funds:

Capital Equipment Replacement Fund - This fund accounts for the operation, maintenance, and replacement of the City vehicles and equipment.

Self-Insurance Fund - This fund accounts for the administration of the City's self-insurance programs, payment of Employee Assistance Programs, and self-insured liability claim deductibles.

Pension Rate Stabilization Fund - This fund stabilizes major fluctuations in annual employer pension costs driven by market factors and actuarial changes.

Fiduciary Fund Financial Statements

The agency funds are custodial in nature (assets equal liabilities) and do not involve measurement of results of operations, therefore only a statement of fiduciary net position is presented. Agency funds are accounted for using the economic resources measurement focus and the accrual basis of accounting. Reclassifications were recorded to prior year amounts reported for various assets and liabilities for agency funds in order to be consistent with the current year's presentation.

Private purpose trust funds account for resources held by the City as trustee for third party beneficiaries, and are used to report both the fiduciary net position and changes in fiduciary net position of the Successor Agency to the former Redevelopment Agency. Private purpose trust funds are accounted for under the full accrual basis of accounting.

Use of Restricted and Unrestricted Net Position

When an expense is incurred for purposes for which both restricted and unrestricted net position are available, the City's policy is to apply restricted net position first.

Cash Equivalents

For purposes of reporting cash flows for the City's proprietary funds, pooled cash and investments held by the City are considered cash equivalents as the proprietary fund can access pooled cash and investments in a manner similar to a demand deposit.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Cash and Investments

The City pools cash and investments from all funds for the purpose of increasing income through investment activities. Interest income on investments is allocated to the funds on the basis of average month-end cash and investment balances. Investments are carried at fair value. Fair value is based on quoted market price if applicable. Otherwise the fair value hierarchy is as follows:

Level 1 – Values are unadjusted quoted prices in active markets for identical assets or liabilities at the measurement date.

Level 2 – Inputs, other than quoted prices, included within Level 1 that are observable for the asset or liabilities at the measurement date.

Level 3 – Certain inputs are unobservable inputs (supported by little or no market activity, such as the City's best estimate of what hypothetical market participants would use to determine a transaction price for the asset or liability at the reporting date).

Local Agency Investment Fund (LAIF) determines fair value on its investment portfolio based on market quotations for these securities where market quotations are readily available, and on amortized cost or best estimate for those securities where market value is not readily available.

The City's investment policy (Policy) states that the primary investment objective is safety with investments being legally permitted and sufficiently liquid to meet forecasted needs. Maximization of interest earnings is a secondary objective. Further, the Policy states that the City Treasurer has the ultimate responsibility to protect, preserve and maintain cash and investments. The Policy also established internal controls and reporting requirements. The Policy stipulates "Permitted Investments and Limitation on Investments. " The City invests in the California LAIF, which is part of the Pooled Money Investment Account operated by the California State Treasurer. LAIF funds are invested in high quality money market securities and are managed to insure the safety of the portfolio. A portion of LAIF's investments are in structured notes and asset-backed securities.

Investments held with CAMP are recorded at amortized cost in accordance with GASB Statement No. 79, *Certain External Investment Pools and Pool Participants*. The Agency participates in the California Asset Management Program (CAMP) which is a voluntary investment alternative authorized by Section 53601(p) of the California Government Code. CAMP is managed by a seven-member Board of Trustees comprised of California public agency finance officials. Investments are transacted by an investment advisor and all securities are held by a third-party custodian. All securities in CAMP are purchased under the authority of Section 53601, subdivisions (a) to (n) of the California Government Code.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Cash and Investments, Continued

Certain disclosure requirements, if applicable, for deposits and investment risks are specified in the following areas:

- Interest Rate Risk
- Credit Risk
    - Overall
    - Custodial Credit Risk
    - Concentrations of Credit Risk

In addition, other disclosures are specified including use of certain methods to present deposits and investments, highly sensitive investments, credit quality at year-end and other disclosures.

Prepaid Items

Certain payments to vendors reflect costs applicable to future fiscal years and are recorded as prepaid items in both government-wide and fund financial statements. Prepaid items in governmental funds are equally offset by amounts included nonspendable fund balance which indicates that they do not constitute available spendable resources even though they are a component of net position. The cost of prepaid items is recorded as expenditures/expenses when consumed rather than when purchased.

Investment in Affordable Housing

This City Successor Housing Agency special revenue fund has purchased and re-sold several housing properties located in Stranahan Circle to low and moderate income households. The City carries the difference between the cost and sale on these properties as an investment in affordable housing until the property is either bought back by the City or sold on the open market. The City participates in the profits on any sales of these properties to an outside party in the same proportion as what the low and moderate income purchaser acquired the property from the City at the below market subsidized value. The City reports the investment in affordable housing at its proportionate equity share of the fair market value of the underlying properties at year-end. Stranahan Circle properties are considered "level 2" investments. The City values their interest in the properties annually using third party published market inputs. At June 30, 2020 the fair value was $2,654,293, which includes an increase of $183,512 for the year then ended.

Capital Assets

Capital assets are valued at cost or, during the initial implementation, estimated historical cost if actual historical cost was not available. Donated capital assets are valued at their estimated fair market value on the date donated. Donated capital assets, donated works of art and similar items, and capital assets received in a service concession arrangement are reported at acquisition value rather than fair value. City policy has set the capitalization threshold for reporting infrastructure at $100,000; all other capital assets

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Capital Assets, Continued

are set at $5,000. Depreciation is recorded on a straight-line basis over estimated useful lives of the assets as follows:

Buildings	50 years
Improvements other than buildings	20 – 75 years
Vehicles, machinery and equipment	5 – 10 years
Infrastructure	20 – 75 years

In June 1999, the Governmental Accounting Standards Board (GASB) issued Statement No. 34 which requires the inclusion of infrastructure capital assets in local governments' basic financial statements. In accordance with GASB Statement No. 34, the City has included all infrastructure into the current basic financial statements. The City defines infrastructure as the basic physical assets that allow the City to function. The assets include streets, park lands, and buildings. Each major infrastructure system can be divided into subsystems. For example, the street system can be subdivided into pavement, curb and gutters, sidewalks, medians, streetlights, landscaping and land. These subsystems were not delineated in the basic financial statements. The appropriate operating department maintains information regarding the subsystems. Interest accrued during capital assets construction, if any, is capitalized for the business-type and proprietary funds as part of the asset cost. For all infrastructure systems, the City elected to use the Basic Approach as defined by GASB Statement No. 34 for infrastructure reporting. The City commissioned an appraisal of City owned infrastructure and property as of June 30, 2003. This appraisal determined the original cost, which is defined as the actual cost to acquire new property in accordance with market prices at the time of first construction/acquisition.

Original costs were developed in one of three ways: (1) historical records; (2) standard unit costs appropriate for the construction/acquisition date; or (3) present cost indexed by a reciprocal factor of the price increase from the construction/acquisition date to the current date. The accumulated depreciation, defined as the total depreciation from the date of construction/acquisition to the current date on a straight line, unrecovered cost method was computed using industry accepted life expectancies for each infrastructure subsystem. The book value was then computed by deducting the accumulated depreciation from the original cost.

Long-Term Liabilities

In the government-wide financial statements, long-term debt and other financial obligations are reported as liabilities in the appropriate activities columns. Bond premiums and discounts, as well as issuance costs, are deferred and amortized over the life of the bonds using the straight-line method. Bonds payable are reported net of the applicable premium or discount. Issuance costs are reported as deferred charges.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Long-Term Liabilities, Continued

The governmental fund financial statements do not present long-term debt, which are shown in the reconciliation of the governmental funds balance sheet to the government-wide statement of net position. Governmental funds recognize bond premiums and discounts, as well as bond issuance costs, during the current period. The face amount of debt issued is reported as other financial sources. Premiums received on debt issuance are reported as other financing sources while discounts on debt issuance reported as other financing uses. Issuance costs, whether or not withheld from the actual debt proceeds received, are reported as debt service expenditures.

Compensated Absences

In the government-wide financial statements compensated absences are recorded as incurred and related expenses and liabilities are reported by activity. The long-term portion of governmental activities is liquidated primarily by the General Fund. In the governmental funds compensated absences are recorded as expenditures in the years paid, as it is the City's policy to liquidate any unpaid compensated absences at June 30th from future resources, rather than currently available financial resources. Compensated absences include vacation as well as compensated leave hours earned in-lieu of overtime. It is the policy of the City to pay up to and capped at a maximum of eighteen (18) times an employee's capped monthly vacation accrual upon retirement or termination.

Pensions

For purposes of measuring the net pension liability and deferred outflows/inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the City's California Public Employees' Retirement System (CalPERS) plans (Plans) and additions to/deductions from the Plans' fiduciary net position have been determined on the same basis as they are reported by CalPERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value. CalPERS' audited financial statements are publicly available reports that can be obtained at CalPERS' website under Forms and Publications.

Other Post-Employment Benefits (OPEB)

For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the City's plan (OPEB Plan) and additions to/deductions from the OPEB Plan's fiduciary net position have been determined on the same basis. For this purpose, benefit payments are recognized when currently due and payable in accordance with the benefit terms. Investments, if any, are reported at fair value.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Other Post-Employment Benefits (OPEB), Continued

Generally accepted accounting principles require that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used:

Valuation date	June 30, 2020
Measurement Date	June 30, 2020
Measurement Period	July 1, 2019 – June 30, 2020

Net Position / Fund Balances

Government-Wide Financial Statements

In the government-wide financial statements, net position is classified in the following categories:

Net Investment in Capital Assets - This amount consists of capital assets net of accumulated depreciation and reduced by outstanding debt that attributed to the acquisition, construction, or improvement of the assets.

Restricted Net Position - This amount is restricted by external creditors, grantors, contributors, or laws or regulations of other governments.

Unrestricted Net Position - This amount is all net position that do not meet the definition of "net investment in capital assets" or "restricted net position. " Nonspendable governmental funds balances are categorized as unrestricted net position on the government-wide financial statements.

Fund Balance Reporting

Equity of governmental funds are reported in classifications that comprise a hierarchy based primarily on the extent to which the government is bound to honor constraints on the specific purposes for which amounts in those funds can be spent. The City Council, as the highest level of decision-making authority, commits and assigns fund balances through the passing of resolutions and ordinances, requiring an equal action for modification or rescinding thereof. It is the policy of the City to spend funds in order from restricted to unassigned, as listed below.

Fund balances for the governmental funds are made up of the following:

- *Non-spendable* – Includes amounts that cannot be spent because they are either not in spendable form, or are legally or contractually required to be maintained intact.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Net Position / Fund Balances, Continued

- *Restricted* – Includes amounts that should be reported as restricted when constraints placed on the use of resources are either externally imposed by creditors, grantors, contributors, or laws and regulations of other governments; or imposed by law through constitutional provisions or enabling legislation.
- *Committed* – Includes amounts that cannot be used for any other purpose unless the government removes or changes the specified use by taking the same type of action it employed to previously commit those amounts.
- *Assigned* – Includes amounts constrained by the government's intent to be used for specific purposes, but are neither restricted nor committed, except for stabilization arrangements.
- *Unassigned* – The residual funds that have not been assigned to other funds, are not non-spendable, restricted, committed, or assigned to specific purposes. The General Fund is the only fund that reports a positive unassigned fund balance.

The City Council has formally adopted a policy requiring a minimum General Fund reserve contingency of $250,000.

Property tax revenues are recognized in the fiscal year for which the tax and assessment is levied. The County of Contra Costa (County) levies, bills, and collects property taxes and special assessments for the City. The County remits the entire amount levied and handles all delinquencies, retaining interest and penalties (under the Teeter Plan). Secured and unsecured property taxes are levied on July 1 based on January 1 assessed valuation and are payable in two installments, becoming delinquent on December 10th and April 10th.

Reclassifications

Certain prior year balances may have been reclassified in order to conform to current year presentation. These reclassifications had no effect upon reported net position.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions. These estimates and assumptions affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities. In addition, estimates affect the reported amount of expenses. Actual results could differ from these estimates and assumptions.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Inter-fund Balances/Internal Balances

Outstanding balances between funds are reported as due to and due from other funds. These are generally repaid within the following fiscal year.

Any residual balances outstanding between the governmental activities and business-type activities are reported in the government-wide financial statements as "internal balances. "

New Accounting Pronouncements

The following Governmental Accounting Standards Board Statements have been implemented in the current financial statements:

- GASB Statement No. 95 – "*Postponement of the Effective Dates of Certain Authoritative Guidance"*

  The primary objective of this Statement is to provide temporary relief to governments and other stakeholders in light of the COVID-19 pandemic. That objective is accomplished by postponing the effective dates of certain provisions in Statements and Implementation Guides that first became effective or are scheduled to become effective for periods beginning after June 15, 2018, and later.

  The effective dates of certain provisions contained in the following pronouncements are postponed by one year:
  - Statement No. 83, *Certain Asset Retirement Obligations* (implemented in FY 2019)
  - Statement No. 84, *Fiduciary Activities*
  - Statement No. 88, *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements* (implemented in FY 2019)
  - Statement No. 89, *Accounting for Interest Cost Incurred before the End of a Construction Period*
  - Statement No. 90, *Majority Equity Interests*
  - Statement No. 91, *Conduit Debt Obligations*
  - Statement No. 92, *Omnibus 2020*
  - Statement No. 93, *Replacement of Interbank Offered Rates*

  The effective dates of the following pronouncements are postponed by 18 months:
  - Statement No. 87, *Leases*

Future Accounting Pronouncements

The following Governmental Accounting Standards Board Statements are effective in future years subsequent to the current financial reporting period:

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Future Accounting Pronouncements, Continued

- GASB Statement No. 84, *"Fiduciary Activities"*

  The objective of this Statement is to improve guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported.

  This Statement establishes criteria for identifying fiduciary activities of all state and local governments. The focus of the criteria generally is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. Separate criteria are included to identify fiduciary component units and postemployment benefit arrangements that are fiduciary activities. The requirements of this Statement are effective for the financial statements for periods beginning after December 15, 2019 (fiscal 2021). Earlier application is encouraged. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 87, *"Leases"*

  The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments.

  This Statement will increase the usefulness of governments' financial statements by requiring reporting of certain lease liabilities that currently are not reported. It will enhance comparability of financial statements among governments by requiring lessees and lessors to report leases under a single model.

  This Statement also will enhance the decision-usefulness of the information provided to financial statement users by requiring notes to financial statements related to the timing, significance, and purpose of a government's leasing arrangements. The requirements of this Statement are effective for reporting periods beginning after June 15, 2021 (fiscal 2023). Earlier application is encouraged. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 89, *"Accounting for Interest Cost Incurred before the End of a Construction Period"*

  The objectives of this Statement are (1) to enhance the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) to simplify accounting for interest cost incurred before the end of a construction period.

  The requirements of this Statement will improve financial reporting by providing users of financial statements with more relevant information about capital assets and the cost of borrowing for a reporting period. The resulting information also will enhance the comparability of information about capital assets and the cost of borrowing for a reporting period for both governmental activities and business-type activities. The requirements of this Statement are effective for reporting periods

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Future Accounting Pronouncements, Continued

beginning after December 15, 2020 (fiscal 2022). Earlier application is encouraged. The requirements of this Statement should be applied prospectively. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 90 *"Majority Equity Interests – an amendment of GASB Statements No. 14 and 61"*

  The primary objectives of this Statement are to improve the consistency and comparability of reporting a government's majority equity interest in a legally separate organization and to improve the relevance of financial statement information for certain component units. It defines a majority equity interest and specifies that a majority equity interest in a legally separate organization should be reported as an investment if a government's holding of the equity interest meets the definition of an investment. The requirements of this Statement will improve financial reporting by providing users of financial statements with essential information related to presentation of majority equity interests in legally separate organizations that previously was reported inconsistently. In addition, requiring reporting of information about component units if the government acquires a 100 percent equity interest provides information about the cost of services to be provided by the component unit in relation to the consideration provided to acquire the component unit.

  The requirements of this Statement are effective for reporting periods beginning after December 15, 2019 (fiscal 2021). Earlier application is encouraged. The requirements should be applied retroactively, except for the provisions related to (1) reporting a majority equity interest in a component unit and (2) reporting a component unit if the government acquires a 100 percent equity interest. Those provisions should be applied on a prospective basis. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 91 *"Conduit Debt Obligations"*

  The primary objectives of this Statement are to provide a single method of reporting conduit debt obligations by issuers and eliminate diversity in practice associated with (1) commitments extended by issuers, (2) arrangements associated with conduit debt obligations, and (3) related note disclosures.

  The requirements of this Statement will improve financial reporting by eliminating the existing option for issuers to report conduit debt obligations as their own liabilities, thereby ending significant diversity in practice. The clarified definition will resolve stakeholders' uncertainty as to whether a given financing is, in fact, a conduit debt obligation. Requiring issuers to recognize liabilities associated with additional commitments extended by issuers and to recognize assets and deferred inflows of resources related to certain arrangements associated with conduit debt obligations also will eliminate diversity, thereby improving comparability in reporting by issuers. Revised disclosure requirements will provide financial statement users with better information regarding the commitments issuers extend and the likelihood that they will fulfill those commitments. That

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Future Accounting Pronouncements, Continued

information will inform users of the potential impact of such commitments on the financial resources of issuers and help users assess issuers' roles in conduit debt obligations.

The requirements of this Statement are effective for reporting periods beginning after December 15, 2021 (fiscal 2023). Earlier application is encouraged. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 92 *"Omnibus 2020"*

  The objectives of this Statement are to enhance comparability in accounting and financial reporting and to improve the consistency of authoritative literature by addressing practice issues that have been identified during implementation and application of certain GASB Statements. This Statement addresses a variety of topics and includes specific provisions. The topics include but are not limited to leases, intra-entity transfers between a primary government and a post-employment benefit plan component unit, accounting for pensions and OPEB related assets, measurement of liabilities related to asset retirement obligations, and nonrecurring fair value measurements of assets or liabilities.

  The requirements of this Statement are effective for reporting periods beginning after June 15, 2021 (fiscal 2022). The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 93 *"Replacement of Interbank Offered Rates"*

  The objective of this Statement is to address those and other accounting and financial reporting implications that result from the replacement of an Interbank Offer Rate (IBOR). This Statement achieves that objective by:

  - Providing exceptions for certain hedging derivative instruments to the hedge accounting termination provisions when an IBOR is replaced as the reference rate of the hedging derivative instrument's variable payment
  - Clarifying the hedge accounting termination provisions when a hedged item is amended to replace the reference rate
  - Clarifying that the uncertainty related to the continued availability of IBORs does not, by itself, affect the assessment of whether the occurrence of a hedged transaction is probable
  - Removing LIBOR as an appropriate benchmark interest rate for the qualitative evaluation of the effectiveness of an interest rate swap
  - Identifying a Secured Overnight Financing Rate and the Effective Federal Funds Rate as appropriate benchmark interest rates for the qualitative evaluation of the effectiveness of an interest rate swap.
  - Clarifying the definition of *reference rate,* as it is used in Statement 53, as amended.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Future Accounting Pronouncements, Continued

The removal of London IBOR as an appropriate benchmark interest rate is effective for reporting periods ending after December 31, 2021 (fiscal year 2022-23). All other requirements of this Statement are effective for reporting periods beginning after June 15, 2020 (fiscal year 2020-21). The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 94 "*Public-Private and Public-Public Partnerships and Availability Payment Arrangements*"

  The primary objective of this Statement is to improve financial reporting by addressing issues related to public-private and public-public partnership arrangements (PPPs). As used in this Statement, a PPP is an arrangement in which a government (the transferor) contracts with an operator (a governmental or nongovernmental entity) to provide public services by conveying control of the right to operate or use a nonfinancial asset, such as infrastructure or other capital asset (the underlying PPP asset), for a period of time in an exchange or exchange-like transaction.

  The requirements of this Statement will improve financial reporting by establishing the definitions of PPPs and APAs and providing uniform guidance on accounting and financial reporting for transactions that meet those definitions. That uniform guidance will provide more relevant and reliable information for financial statement users and create greater consistency in practice. This Statement will enhance the decision usefulness of a government's financial statements by requiring governments to report assets and liabilities related to PPPs consistently and disclose important information about PPP transactions. The required disclosures will allow users to understand the scale and important aspects of a government's PPPs and evaluate a government's future obligations and assets resulting from PPP.

  PPPs should be recognized and measured using the facts and circumstances that exist at the beginning of the period of implementation (or if applicable to earlier periods, the beginning of the earliest period restated).

  The requirements of this Statement are effective for fiscal years beginning after June 15, 2022 (fiscal year 2022-23), and all reporting periods thereafter. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 96 "*Subscription-Based Information Technology Arrangements*"

  This Statement provides guidance on the accounting and financial reporting for subscription-based information technology arrangements (SBITAs) for government end users (governments). This Statement (1) defines a SBITA; (2) establishes that a SBITA results in a right-to-use subscription asset—an intangible asset—and a corresponding subscription liability; (3) provides the capitalization criteria for outlays other than subscription payments, including implementation costs of a SBITA; and (4) requires note disclosures regarding a SBITA. To the extent relevant, the standards for SBITAs are based on the standards established in Statement No. 87, *Leases*, as amended.

DRAFT 01.28.21 12PM

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, Continued

Future Accounting Pronouncements, Continued

The requirements of this Statement will improve financial reporting by establishing a definition for SBITAs and providing uniform guidance for accounting and financial reporting for transactions that meet that definition. That definition and uniform guidance will result in greater consistency in practice. Establishing the capitalization criteria for implementation costs also will reduce diversity and improve comparability in financial reporting by governments. This Statement also will enhance the relevance and reliability of a government's financial statements by requiring a government to report a subscription asset and subscription liability for a SBITA and to disclose essential information about the arrangement. The disclosures will allow users to understand the scale and important aspects of a government's SBITA activities and evaluate a government's obligations and assets resulting from SBITAs.

The requirements of this Statement are effective for fiscal years beginning after June 15, 2022 (fiscal year 2022-23), and all reporting periods thereafter. The City is currently evaluating the potential impact on the City's financials.

- GASB Statement No. 97 *"Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans – an amendment of GASB Statements No. 14 and No. 84, and a supersession of GASB Statement No. 32"*

  The primary objectives of this Statement are to (1) increase consistency and comparability related to the reporting of fiduciary component units in circumstances in which a potential component unit does not have a governing board and the primary government performs the duties that a governing board typically would perform; (2) mitigate costs associated with the reporting of certain defined contribution pension plans, defined contribution other postemployment benefit (OPEB) plans, and employee benefit plans other than pension plans or OPEB plans (other employee benefit plans) as fiduciary component units in fiduciary fund financial statements; and (3) enhance the relevance, consistency, and comparability of the accounting and financial reporting for Internal Revenue Code (IRC) Section 457 deferred compensation plans (Section 457 plans) that meet the definition of a pension plan and for benefits provided through those plans.

  The requirements of this Statement that are related to the accounting and financial reporting for Section 457 plans are effective for fiscal years beginning after June 15, 2021 (fiscal year 2021-22). For purposes of determining whether a primary government is financially accountable for a potential component unit, the requirements of this Statement that provide that for all other arrangements, the absence of a governing board be treated the same as the appointment of a voting majority of a governing board if the primary government performs the duties that a governing board typically would perform, are effective for reporting periods beginning after June 15, 2021 (fiscal year 2021-22). The City is currently evaluating the potential impact on the City's financials.

DRAFT 01.28.21 12PM

2. CASH AND INVESTMENTS

Classification

The City's total cash and investments, at fair value, are presented on the accompanying financial statements in the following allocation:

Government-Wide Statement of Net Position	
Governmental Activities	
Cash and investments	$ 13,449,646
Statements of Fiduciary Net Position	
Private Purpose Trust Fund	
Cash and investments	767,071
Cash with fiscal agents	13
Agency Funds	
Cash and investments	2,034,003
Cash and investments with fiscal agents	368,164
Investments in bonds	1,313,000
Total	$ 17,931,897

Cash and investments as of June 30, 2020 consist of the following:	
Cash on hand	$ 1,000
Deposits with financial institutions	3,774,641
Investments	14,156,256
Total	$ 17,931,897

Policy

Investments Authorized by the California Government Code and the City's Investment Policy

The following table identifies the investment types that are authorized for the City of Clayton by the California Government Code (or the City's investment policy, where more restrictive). The table also identifies certain provisions of the California Government Code (or the City's investment policy, where more restrictive) that address interest rate risk, credit risk, and concentration of credit risk. This table does not address investments of debt proceeds held by bond trustee that are governed by the provisions of debt agreements of the City, rather than the general provisions of the California Government Code or the Agency's investment policy.

Authorized Investment Type	Maximum Maturity	Maximum Percentage of Portfolio	Maximum Percentage of One Issuer
Local Agency Investment Fund (State Pool)	N/A	None	$40 million
CAMP	N/A	None	None
Money Market Funds	N/A	None	None
U. S. Treasury Obligations	5 years	None	None
U. S. Government Agency Issues	5 years	20%	None
Bank Deposits	N/A	None	None
Negotiable Time Certificates of Deposit	5 years	None	None
Medium Term Corporate Bonds	5 years	20%	None

DRAFT 01.28.21 12PM

2. CASH AND INVESTMENTS, Continued

Policy, Continued

Investments Authorized by Debt Agreements

Investments of debt proceeds held by bond trustees are governed by provisions of the debt agreements, rather than the general provisions of the California Government Code or the City's investment policy. The table below identifies the investment types that are authorized for investments held by bond trustees. The table also identifies certain provisions of these debt agreements that address interest rate risk, credit risk, and concentration of credit risk.

Authorized Investment Type	Maximum Maturity	Maximum Percentage of Portfolio	Maximum Investment in One Issuer
Money Market Mutual Funds	N/A	N/A	N/A
U. S. Government Agency Issues	5 years	20%	None
Federal Housing Administration Debentures	N/A	N/A	N/A
Commercial paper	92 days	N/A	N/A
Demand or time deposits	366 days	N/A	N/A

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Usually, the later the maturity of an investment the greater the sensitivity of its fair value to changes in market interest rates. Information about the sensitivity of the fair values of the City's investments (including investments held by bond trustees) to market interest rate fluctuations is provided by the following table that shows the distribution of investments by maturity:

		Remaining Maturity (in Months)				
Investment Type	Totals	12 Months or Less	13-24 Months	25-36 Months	37-48 Months	49-60 Months
Pooled Investments:						
Local Agency Investment Fund (LAIF)	$ 1,779,972	$ 1,779,972	$ -	$ -	$ -	$ -
California Asset Management Program (CAMP)	889,437	889,437	-	-	-	-
Certificates of Deposit	9,398,040	1,898,335	2,700,652	3,215,015	1,077,481	506,557
Corporate Bonds and Notes	775,807	-	-	244,844	-	530,963
Held by Bond Trustees:						
U. S. Treasury Note	-	-	-	-	-	-
Municipal Bonds	1,313,000	-	409,000	434,000	470,000	-
Total Investments	$ 14,156,256	$ 4,567,744	$ 3,109,652	$ 3,893,859	$ 1,547,481	$ 1,037,520

DRAFT 01.28.21 12PM

2. CASH AND INVESTMENTS, Continued

Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. Presented below is the minimum rating required by (where applicable) the California Government Code, the City's investment policy, or debt agreements, and the actual rating as of fiscal year end for each investment type.

Investment Type	AAA	AA+	A	Unrated	Total
Pooled Investments:					
Local Agency Investment Fund (LAIF)	$ -	$ -	$ -	$ 1,779,972	$ 1,779,972
California Asset Management Program (CAMP)	889,437	-	-	-	889,437
Certificates of Deposit	-	-	-	9,398,040	9,398,040
Corporate Bonds and Notes	-	775,807	-	-	775,807
Held by Bond Trustees:					
U. S. Treasury Notes	-	-	-	-	-
Municipal Bonds	-	-	-	1,313,000	1,313,000
Total Investments	$ 889,437	$ 775,807	$ -	$ 12,491,012	$ 14,156,256

Concentration of Credit Risk

This is the risk of loss attributed to the magnitude of a government's investment in a single issuer. Accordingly, the notes to the financial statements should disclose if the government has five (5) percent or more of its total investments in a single issuer. More than five percent of the City's investments are with the "Middle School" Community Facilities District No. 1990-1.

Custodial Credit Risk

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for investments is the risk that, in the event of the failure of the counter party (e. g. broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The California Government Code and the City's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits or investments, other than the following provision for deposits. The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The fair value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure City deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

DRAFT 01.28.21 12PM

2. CASH AND INVESTMENTS, Continued

Investment Fair Value

The City has the following recurring fair value measurements as of June 30, 2020:

- U. S. government agency note, certificates of deposit, Local Agency Investment Fund (LAIF), and California Asset Management Program (CAMP) values are based on unadjusted quoted prices in active markets for identical assets or liabilities at the measurement date [Level 1 inputs].
- Municipal bonds are valued based on unobservable inputs (supported by little or no market activity, such as the City's best estimate of what hypothetical market participants would use to determine a transaction price for the asset or liability at the reporting date) [Level 3 inputs].

The City is a voluntary participant in the LAIF and the CAMP that are regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the City's investment in this pool is reported in the accompanying financial statements at amounts based upon the City's pro-rata share of the fair value provided by LAIF and CAMP for the entire respective portfolios (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF and CAMP, which are recorded on an amortized cost basis.

3. LOANS AND NOTES RECEIVABLE

The following is a summary of loans and notes receivable of the City for the year ended June 30, 2020:

	Balance July 1, 2019	Additions	Deletions	Balance at June 30, 2020
General Fund:				
Oak Street Bridge Assessment District Loan	$ 3,958	$ -	$ (3,958)	$ -
Total General Fund	3,958	-	(3,958)	-
Successor Housing Agency:				
Diamond Terrace P. A. M. Note	3,041,400	-	(101,400)	2,940,000
Eden Affordable Housing Note	567,000	-	-	567,000
Stranahan Affordable Housing Notes	85,529	-	(35,228)	50,301
Successor Agency SERAF Loan	296,206	-	(148,103)	148,103
Total Successor Housing Agency	3,990,135	-	(284,731)	3,705,404
Total Notes Receivable	$ 3,994,093	$ -	$ (288,689)	$ 3,705,404

Oak Street Bridge Assessment District Loan

In fiscal year 1999, the General Fund provided $48,310 in funding for a portion of the Oak Street Bridge project and recorded a note receivable from the Oak Street Bridge Assessment District. The note, which bears interest at 6%, is being paid off over 20 years. During the year ended June 30, 2020 the outstanding balance due to the General Fund was completely paid off.

DRAFT 01.28.21 12PM

3. LOANS AND NOTES RECEIVABLE, Continued

Diamond Terrace Note

On September 21, 1999, the former RDA low-moderate housing fund made a loan to the Professional Apartment Management, Inc. ("PAM") in the amount of $750,000, at a non-interest bearing rate, to construct and develop an affordable senior assisted living center on the site known as "Diamond Terrace. " The note is secured by the Deed of Trust. The former RDA loaned an additional $1,286,000 on October 24, 2001. On December 1, 2003, PAM began drawing on a $2,000,000 loan from the former RDA in the amount of $200,000 annually. The principal balance is payable commencing on October 1, 2005 through October 1, 2030. The balance of the loan due to the Successor Housing Agency was $2,940,000 at June 30, 2020.

Eden Housing Loan

On October 13, 1992, the former RDA low-moderate housing fund made a loan to the Peace Grove, Inc. in the amount of $567,000, at a non-interest bearing rate, for the purchase of land for a redevelopment and housing project for low-income mental health system clients. The loan is secured by the Deed of Trust. The principal balance is payable on December 18, 2052. As of June 30, 2020, the outstanding balance of the loan due to the Successor Housing Agency was $567,000.

Stranahan Affordable Housing Loans

The former RDA low-moderate housing fund participated in a second mortgage assistance program, whereby qualified applicants are loaned money for a "silent second" down payment to purchase a home in the Stranahan Development within the City. There are five individual loans outstanding. Interest is accrued on the principal for the first 15-35 years and then the total of accrued interest and principal is forgiven over the last 10 years of the term of the lease. As of June 30, 2020, the outstanding balance of the loans due to the Successor Agency was $50,301 of principal. The collectability of the accrued interest on these notes ($26,437) is doubtful and an allowance has been recorded to offset the full amount.

SERAF Loan

On May 10, 2011, the former RDA received a loan from the low-moderate housing fund in the amount of $592,412 to partially cover a demand from the California Department of Finance for property tax revenues to K-12 schools during the 2011-12 fiscal year via the Supplemental Educational Revenue Augmentation Funds (SERAF). Pursuant to the California Department of Finance determination letter approving the 2017-18 Recognized Obligation Payment Schedule (ROPS) dated March 17, 2017, the loan will be repaid by the Successor Agency through the ROPS process in four (4) installments and matures in the fiscal year ending June 20, 2021. The loan is non-interest bearing. The outstanding balance at June 30, 2020 was $148,103.

DRAFT 01.28.21 12PM

4. INTERFUND TRANSACTIONS

Due To, Due From

At June 30, 2020, the City had the following short-term interfund receivables and payables:

	Due from		
Due to	Non-major Governmental Funds	Endeavor Hall	Total
General Fund	$ -	$ 69,252	$ 69,252
Total	$ -	$ 69,252	$ 69,252

General Fund cash flow loans totaling $69,252 were made to Endeavor Hall. The balance of the Endeavor Hall receivable is expected to be repaid from future facility rental fees.

Interfund Transfers

The following is a summary of the City's interfund transfers for the year ended June 30, 2020:

	Transfers in			
Transfers out	General Fund	Construction Improvement Program	Non-major Governmental Funds	Total
General Fund	$ -	$ 18,801	$ 2,550	$ 21,351
Landscape Maintenance	38,760	-	1,090	39,850
Non-major governmental funds	80,930	15,683	-	96,613
Total	$ 119,690	$ 34,484	$ 3,640	$ 157,814

The City transferred money into the General Fund from the following funds: Capital Improvements Projects transferred and Stormwater Treatment Assessment District to reimburse the City for administrative support activities. In addition, the City transferred money from the General fund into the Landscape Maintenance and the Non-major Governmental funds to fund project costs associated with the Stormwater Treatment Assessment District.

DRAFT 01.28.21 12PM

5. CAPITAL ASSETS

Government-Wide Financial Statements

As of June 30, 2020 the City's capital assets consisted of the following:

	Governmental Activities	Business-Type Activities	Total
Net depreciable Assets:			
Construction in progress	$ 1,109,270	$ -	$ 1,109,270
Land	2,086,965	167,738	2,254,703
Total non depreciable assets	3,196,235	167,738	3,363,973
Depreciable Assets:			
Buildings	5,937,106	1,400,744	7,337,850
Improvements	6,635,295	159,579	6,794,874
Machinery and equipment	1,679,497	5,024	1,684,521
Infrastructure	33,239,930	-	33,239,930
Total depreciable assets	47,491,828	1,565,347	49,057,175
Total accumulated depreciation	(20,907,948)	(659,342)	(21,567,290)
Depreciable assets, net	26,583,880	906,005	27,489,885
Total governmental activities capital assets, net	$ 29,780,115	$ 1,073,743	$ 30,853,858

The following is a summary of governmental activities capital assets transactions for the year ended June 30, 2020:

	Balance July 1, 2019	Additions	Deletions	Balance June 30, 2020
Non depreciable Assets:				
Construction in progress	$ 1,113,865	$ 1,034,432	$ (1,039,027)	$ 1,109,270
Land	2,086,965	-	-	2,086,965
Total non depreciable assets	3,200,830	1,034,432	(1,039,027)	3,196,235
Depreciable Assets:				
Machinery and equipment	1,624,582	91,702	(36,787)	1,679,497
Buildings	5,895,576	41,530	-	5,937,106
Improvements	6,605,298	29,997	-	6,635,295
Infrastructure	32,340,382	899,549	-	33,239,930
Total depreciable assets	46,465,838	1,062,777	(36,787)	47,491,828
Accumulated depreciation:				
Machinery and equipment	(1,134,283)	(88,453)	36,787	(1,185,949)
Buildings	(2,839,036)	(118,141)	-	(2,957,177)
Improvements	(2,762,518)	(253,292)	-	(3,015,810)
Infrastructure	(13,140,125)	(608,887)	-	(13,749,012)
Total accumulated depreciation	(19,875,962)	(1,068,773)	36,787	(20,907,948)
Depreciable assets, net	26,589,876	(5,996)	-	26,583,880
Total governmental activities capital assets, net	$ 29,790,706	$ 1,028,436	$ (1,039,027)	$ 29,780,115

DRAFT 01.28.21 12PM

5. CAPITAL ASSETS, Continued

Government-Wide Financial Statements, Continued

For the year ending June 30, 2020 depreciation expense was charged to functions/programs of the governmental activities as follows:

General government	$ 71,695
Parks and recreation	241,001
Public safety	58,653
Public works	697,424
Total depreciation expense	$ 1,068,773

The following is a summary of business-type activities capital assets transactions for the year ended June 30, 2020:

	Balance July 1, 2019	Additions	Deletions	Balance June 30, 2020
Non depreciable Assets:				
Land	$ 167,738	$ -	$ -	$ 167,738
Total non depreciable assets	167,738	-	-	167,738
Depreciable Assets:				
Machinery and equipment	5,024	-	-	5,024
Improvements	159,579	-	-	159,579
Buildings	1,400,744	-	-	1,400,744
Total depreciable assets	1,565,347	-	-	1,565,347
Accumulated depreciation:				
Machinery and equipment	(8,454)	(858)	-	(9,312)
Buildings	(479,867)	(28,335)	-	(508,202)
Improvements	(134,279)	(7,549)	-	(141,828)
Total accumulated depreciation	(622,600)	(36,742)	-	(659,342)
Depreciable assets, net	942,747	(36,742)	-	906,005
Total business-type activities capital assets, net	$ 1,110,485	$ (36,742)	$ -	$ 1,073,743

For the year ending June 30, 2020 depreciation expense was charged to functions/programs of the business-type activities as follows:

Endeavor Hall	$ 36,742
Total depreciation expense	$ 36,742

DRAFT 01.28.21 12PM

5. CAPITAL ASSETS, Continued

Fund Financial Statements

The governmental fund financial statements do not present general government capital assets, which are shown in the Reconciliation of the Governmental Funds Balance Sheet to the Government-Wide Statement of Net Position. The capital assets of the enterprise funds in the Proprietary Fund Financial Statements are the same as those shown in the business-type activities of the Government-Wide Financial Statements. Internal Service Funds' capital assets are combined with governmental activities.

6. COMPENSATED ABSENCES

Compensated absences include vacation and sick leave. It is the policy of the City to pay 100% of the capped accumulated vacation leave when a public safety employee retires or terminates, and up to 18 months of a general employee's maximum annual accrual allowed upon the same leave of employment action. The City recognizes the liability for its compensated absences in the governmental activities. The following is a summary of compensated absences transactions during the year ended June 30, 2020:

	Beginning Balance July 1, 2019	Additions	Deletions	Ending Balance June 30, 2020	Amount Due in One Year
Compensated absences	$ 143,296	$ 166,061	$ 161,663	$ 147,694	$ 73,847

7. CONDUIT DEBT

The following debt issuances were issued by the City for the express purpose of providing capital financing for third parties that are not part of the primary government of the City. Although these conduit debt obligations may bear the name of the City, the City has no obligation for such debt beyond the resources provided by a lease or loan with the third party on whose behalf they are issued.

Middle School Community Facilities District- Original Issue $6,400,000

Middle School Community Facilities District (CFD) Bonds in the principal amount of $6,400,000 were issued on September 2, 1990 by the City under the Mello-Roos Community Facilities Act of 1982. Principal payments are payable on September 2 of each year. Interest payments are payable semi-annually on March 2 and September 2. The bonds are non-city obligations and are secured solely by special assessment revenue from CFD No. 1990-1. As of June 30, 2020, the outstanding balance of the non-city bond obligation was $1,313,000.

DRAFT 01.28.21 12PM

7. CONDUIT DEBT, Continued

Lydia Lane Sewer Assessment District-Original Issue $228,325

Lydia Lane Sewer Assessment District Bonds in the principal amount of $228,325 were issued on August 5, 2002 by the City. Principal payments are payable on September 2 of each year. Interest payments are payable semi-annually on March 2 and September 2. The bonds are non city obligations and are secured by sewer assessment district revenue. As of June 30, 2020, the outstanding balance of the non-city bond obligation was $148,325.

Clayton Financing Authority 2007 Special Tax Revenue Refunding Bonds-Original Issue $5,060,000

Refunding bonds were issued on May 17, 2007 by the Clayton Financing Authority in the principal amount of $5,060,000 to refund the Authority's 1997 Special Tax Revenue Refunding Bonds (the "1997 Bonds"), finance the acquisition and construction of certain public capital improvements (the Project), establish a reserve fund for the Bonds (funded part in cash and part from a reserve fund surety bond), and to pay the costs of issuance of the Bonds. The 1997 Bonds were issued to purchase the CFD 1990-1 local obligations, which are recovered by special assessment revenues from CFD 1990-1. Principal payments are payable on September 2 of each year. Interest payments are payable semi-annually on March 2 and September 2. The bonds are non city obligations and are secured by revenues received by the Authority as the result of the payment of debt service on the CFD 1990-1 Local Obligations. As of June 30, 2020, the outstanding balance of the non-city bond obligation was $1,190,000.

8. UNEARNED AND DEFERRED REVENUE

Deferred Revenue

Deferred inflows of resources were recorded in the fund financial statements because the funds were not available to finance expenditures of the current period. At June 30, 2020, deferred inflows of resources in the fund financial statements were as follows.

	General Fund	Successor Housing Agency	Total Governmental Funds
Deferred revenue			
Unavailable state-mandated program reimbursements	$ 265,546	$ -	$ 265,546
Unavailable loans receivable	-	2,940,000	2,940,000
Total deferred revenue	$ 265,546	$ 2,940,000	$ 3,205,546

DRAFT 01.28.21 12PM

9. RISK MANAGEMENT

The City participates in the Municipal Pooling Authority of Northern California (MPA), a joint powers agreement between twenty cities, which provides insurance coverage for liability, auto, property, and workers' compensation claims. Claims liabilities are accrued when it is probable that a loss has occurred and the amount of that loss can be reasonably estimated. The MPA covers claims in an amount up to $29,000,000. The City has a deductible of $5,000 per claim for liability cases and no deductible for workers' compensation claims. Once the City's deductible is met, the MPA becomes responsible for payment of all claims and legal defense. The MPA is governed by a board consisting of one voting representative from each member municipality. The Board controls the operations of the MPA including selection of management, approval of operating budgets, and is independent of any influence by member municipalities beyond their representation on the Board. The City's general liability and workers' compensation premium payments made to MPA for the fiscal year ending June 30, 2019 are in accordance with formulas established by the MPA. Actual surpluses or losses are shared according to a formula developed from overall loss costs and spread to member entities on a percentage basis after a retrospective rating. Financial statements may be obtained from MPA at 1911 San Miguel Drive, Suite 200, Walnut Creek, CA 94596. The City has had no settlements which exceeded insurance coverage during fiscal year ending June 30, 2020. Estimates of incurred, but not reported, liability claims are included in the City's claims estimates and based upon historical experiences as calculated by the MPA.

10. DEFINED BENEFIT PENSION PLAN

Plan Description

The Plan is a cost-sharing multiple-employer defined benefit pension plan administered by the California Public Employees' Retirement System (CalPERS). A full description of the pension plan benefit provisions, assumptions for funding purposes (not accounting purposes) and membership information is listed in the latest Annual Actuarial Valuation Report as of June 30, 2018. This report is a publicly available valuation report that can be obtained at CalPERS' website under Forms and Publications. All qualified permanent and probationary employees are eligible to participate in the City's separate Public Safety (police) and Miscellaneous (all other) defined benefit pension plans. Both the Public Safety and Miscellaneous plans are part of the public agency cost-sharing multiple employer defined benefit pension plan (PERF C), which is administered by CalPERS. PERF C consists of a Safety and Miscellaneous pool (also referred to as "risk pools"), which are comprised of individual employer safety and miscellaneous rate plans, respectively. Benefit provisions under the Plan are established by State statute and City resolution. CalPERS issues publicly available reports that include a full description of the pension plans regarding benefit provisions, assumptions and membership information that can be obtained from CalPERS at 400 Q Street, Sacramento, CA 95811.

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Benefits Provided

CalPERS provides service retirement and disability benefits, annual cost of living adjustments and death benefits to plan members, who must be public employees and beneficiaries. Benefits are based on years of credited service, equal to one year of full time employment. Members with five years of total service become vested and are eligible to retire at age 50 with statutorily reduced benefits. All members are eligible for non-duty disability benefits after 10 years of service. The death benefit is one of the following: the Basic Death Benefit, the 1957 Survivor Benefit, or the Optional Settlement 2W Death Benefit. The cost of living adjustments for each plan are applied as specified by the Public Employees' Retirement Law. The Plans' provisions and benefits in effect at June 30, 2020, are summarized as follows:

	Miscellaneous Pension Plan		
	Tier I	Tier II	Tier III (PEPRA)*
Hire Date	Before 7/1/2010	On or after 7/1/2020 but Before 1/1/2013	On or after 1/1/2013
Benefit formula	2% @ 55	2% @ 60	2% @ 62
Benefit vesting schedule	5 years of service	5 years of service	5 years of service
Benefit payments	Monthly for life	Monthly for life	Monthly for life
Minimum retirement age	50	50	52
Monthly benefits, as % of eligible compensation	1. 426% - 2. 418%	1. 092% - 2. 418%	1. 0% - 2. 5%

	Safety Pension Plan		
	Tier I	Tier II	Tier III (PEPRA)*
Hire Date	Before 7/1/2010	On or after 7/1/2010 but Before 1/1/2013	On or after 1/1/2013
Benefit formula	3% @ 55	2% @ 50	2. 7% @ 57
Benefit vesting schedule	5 years of service	5 years of service	5 years of service
Benefit payments	Monthly for life	Monthly for life	Monthly for life
Minimum retirement age	50	50	50
Monthly benefits, as % of eligible compensation	2. 4% - 3. 0%	2. 0% - 2. 7%	2. 0% - 2. 7%

*The California Public Employees' Reform Act (PEPRA) was enacted in 2012 and became effective January 1, 2013.

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Employees Covered

At June 30, 2020 the following employees were covered by the benefit terms for each plan:

	Miscellaneous			Public Safety		
	Tier I	Tier II	PEPRA	Tier I	Tier II	PEPRA
Inactive employees (or their beneficiaries) currently receiving benefits	25	1	-	19	-	-
Inactive employees entitled to but not yet receiving benefits	8	2	1	4	1	1
Active employees	3	3	9	4	-	8
Total	36	6	10	27	1	9

Contributions

Section 20814(c) of the California Public Employees' Retirement Law (PERL) requires that the employer contribution rates for all public employers be determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in the rate. The total plan contributions are determined through the CalPERS' annual actuarial valuation process. The Plan's actuarially determined rate is based on the estimated amount necessary to pay the costs of benefits earned by employees during the year, with an additional amount to pay any unfunded accrued liability. The employer is required to contribute the difference between the actuarially determined rate and the contribution rate of employees.

For the year ended June 30, 2020, the City's contractually required contributions, which are actuarially determined, were as follows:

	Employer Contributions		
Pension Plan	Normal Cost Percentage of Payroll	Unfunded Actuarial Liability	Total
Miscellaneous Tier I	$ 42,728	$ 191,237	$ 233,965
Miscellaneous Tier II	14,617	1,096	15,713
Miscellaneous PEPRA	37,132	2,056	39,188
Public Safety Tier I	73,759	153,231	226,990
Public Safety Tier II	-	616	616
Public Safety PEPRA	75,730	1,837	77,567
Total	$ 243,966	$ 350,073	$ 594,039

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Contributions, Continued

The following is a summary of actuarially determined employer and contractually determined employee pension contribution rates as a percentage of payroll for the year ended June 30, 2020:

Pension Plan	Employer Contribution Rate	Employee Contribution Rate
Miscellaneous Tier I	9.680	7. 000[1]
Miscellaneous Tier II	8.081	7. 000
Miscellaneous PEPRA	6.985	6. 750
Public Safety Tier I	17.678	9. 000
Public Safety Tier II	16.636	9. 000
Public Safety PEPRA	13.034	12. 000

[1] Paid on behalf of employee per labor agreement referred to as "Employee Paid Member Contribution" (EPMC) by CalPERS.

Net Pension Liability

At June 30, 2020, the City reported total net pension liabilities for its proportionate share in both the Miscellaneous and Safety plans as follows:

Pension Plan	Net Pension Liability (Asset)	Proportionate Share of Net Pension Liability
Miscellaneous	$ 2,160,840	0. 05396%
Public Safety	2,714,068	0. 04348%
Total	$ 4,874,908	$ 0. 04757%

The City's net pension liability was based on the proportionate shares (in dollars) determined by CalPERS based on individual actuarial measurement specific to each rate plan in the Miscellaneous Pool and the Safety Pool. The City's total proportionate share of the cost-sharing plan pension amounts is the sum of the pension amounts allocated to each of the City's Miscellaneous and Safety rate plans. The City's net pension liability is measured as of June 30, 2019, using annual actuarial valuations as of June 30, 2018 rolled forward to June 30, 2019 using standard update procedures.

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Pension Expense, Deferred Outflows of Resources and Deferred Inflows of Resources

For the year ending June 30, 2020 the City recognized a total pension expense of $494,195. At June 30, 2020 the City reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Pension contributions subsequent to measurement date	$ 577,734	$ -
Net difference between projected and actual earnings on pension plan investments	-	75,115
Change in employer's proportion	6,626	79,067
Changes in assumptions	214,284	58,235
Differences between actual and expected experiences	319,614	3,957
Differences between the employer's contributions and the employer's proportion share of contributions	19,218	112,443
Total	$ 1,137,476	$ 328,817

Pension Expense, Deferred Outflows of Resources and Deferred Inflows of Resources, Continued

Of the reported deferred outflows of resources, $577,734 is related to contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended June 30, 2021 (measurement period ended June 30, 2020). Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized as pension expense as follows:

			Employer Specific Amounts		
Fiscal Year End	Miscellaneous Risk Pool	Safety Risk Pool	Change in Proportion	Difference Between Actual and Proportionate Share of Contributions	Total
2021	$ 158,997	$ 198,077	$ (25,750)	$ (22,444)	$ 308,880
2022	(17,337)	(7,074)	(30,058)	(38,656)	(93,125)
2023	17,891	31,135	(16,633)	(32,125)	268
2024	7,634	7,268	-	-	14,902

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Discount Rate

The discount rate used to measure the total pension liability was 7. 15%. To determine whether the municipal bond rate should be used in the calculation of a discount rate for each plan, CalPERS stress tested plans that would most likely result in a discount rate that would be different from the actuarially assumed discount rate. Based on the testing, none of the tested plans run out of assets. Therefore, the current 7. 15% discount rate is adequate and the use of the municipal bond rate calculation is not necessary. The long term expected discount rate of 7. 15% will be applied to all plans in the PERF C. The stress test results are presented in a detailed report that can be obtained from the CalPERS website at www. calpers. ca. gov.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class.

In determining the long-term expected rate of return, CalPERS has taken into account both short-term and long-term market return expectations as well as the expected pension fund cash flows. Using historical returns of all the funds' asset classes, expected compound returns were calculated over the short-term (first 10 years) and the long-term (11-60 years) using a building-block approach. Using the expected nominal returns for both short-term and long-term, the present value of benefits was calculated for each fund. The expected rate of return was set by calculating the single equivalent expected return that arrived at the same present value of benefits for cash flows as the one calculated using both short-term and long-term returns. The expected rate of return was then set equivalent to the single equivalent rate calculated above and rounded down to the nearest one quarter of one percent.

The table below reflects the long-term expected real rate of return by asset class. The rate of return was calculated using the capital market assumptions applied to determine the discount rate and asset allocation. These rates of return are net of administrative expenses.

Asset Class[1]	New Strategic Allocation	Real Return Years 1-10[2]	Real Return Years 11+[3]
Global Equity	50. 00%	4. 80%	5. 98%
Fixed Income	28. 00%	1. 00%	2. 62%
Inflation Assets	-	0. 77%	1. 81%
Private Equity	8. 00%	6. 30%	7. 23%
Real Assets	13. 00%	3. 75%	4. 93%
Liquidity	1. 00%	-	-0. 92%
Total	100. 00%		

[1]In the System's CAFR, Fixed Income is included in Global Debt Securities: Liquidity is included In Short-term Investments; Inflation Assets are included in both Global Equity Securities and Global Debt Securities
[2]An expected inflation of 2. 00% is used for this period
[3]An expected inflation of 2. 92% is used for this period.

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Actuarial Methods and Assumptions

The following actuarial assumptions and methods were used to calculate the total pension liability as of June 30, 2020:

Valuation Date	June 30, 2018
Measurement Date	June 30, 2019
Measurement Period	July 1, 2018 to June 30, 2019
Discount Rate	7. 15%
Inflation	2. 50%
Salary Increase	Varies by Entry Age and Service
Mortality	Derived using specific CalPERS Membership Data for all Funds. Incorporates 15 years of mortality improvements using Society of Actuaries Scale 90% of scale MP 2016.
Post Retirement Benefit Increase	Contract COLA up to 2. 50% until Purchasing Power Protection Allowance Floor on Purchasing Power applies.

All other actuarial assumptions used in the June 30, 2018 valuation can be obtained from CalPERS at their website at www. calpers. ca. gov under Forms and Publications.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the City's proportionate share of the net pension liability, calculated using the discount rate of 7. 15%, as well as what the City's proportionate share of the net pension liability/(asset) would be if it were calculated using a discount rate that is 1-percentage point lower (6. 15%) or 1-percentage point higher (8. 15%) than the current rate:

	Miscellaneous	Safety	Total
1% decrease	6. 15%	6. 15%	6. 15%
Net pension liability	$ 3,374,900	$ 4,330,330	$ 7,705,230
Current discount rate	7. 15%	7. 15%	7. 15%
Net pension liability	$ 2,160,840	$ 2,714,068	$ 4,874,908
1% increase	8. 15%	8. 15%	8. 15%
Net pension liability	$ 1,158,719	$ 1,388,985	$ 2,547,704

DRAFT 01.28.21 12PM

10. DEFINED BENEFIT PENSION PLAN, Continued

Pension Plan Fiduciary Net Position

Detailed information about each pension plan's fiduciary net position is available in the separately issued CalPERS financial reports. The plan's fiduciary net position disclosed per the GASB Statement No. 68 accounting valuation report may differ from the plan assets reported in the funding actuarial valuation report due to several reasons. For the accounting valuations, CalPERS must keep items such as deficiency reserves, fiduciary self-insurance and OPEB expense included as assets. These amounts are excluded for rate setting purposes in the City's funding actuarial valuation. In addition, differences may result from early financial statement closing and final reconciled reserves.

11. OTHER POST-EMPLOYMENT BENEFITS (OPEB)

Plan Description

The City of Clayton Retired Employee Health Care Program is a single-employer defined benefit healthcare program administered by the City of Clayton. The program offers medical only (no dental) insurance benefits to eligible retirees and their families through the same self-insured program coverage to active City employees. In connection with this, the City has established a plan to provide post-employment benefits other than pensions as defined in *California Public Employees' Retirement Law* section 7500-7514. 5. The plan provides employees who retire directly from the City, at a minimum age of 50, with a minimum of five years of service, a cash subsidy for monthly medical insurance premiums to a cap of $133 per employee per month as of June 30, 2020. This monthly subsidy is the statutory minimum employer premium contribution under the California Public Employee's Medical and Health Care Act (PEMHCA). To be eligible for this OPEB health coverage, employees must retire within 120 days of separation from employment with the City and also receive a monthly retirement warrant. Furthermore, to be eligible for retiree health benefits, the City of Clayton must still contract with CalPERS for health benefits. Once a retiree becomes eligible for Medicare, these benefits are integrated with the Medicare plan. Separate stand-alone audited financial statements are not issued for this plan.

Employees Covered

As of the June 30, 2020, the date of the latest actuarial valuation, the following current and former employees were covered by the benefit terms under the plan:

Active employees	27
Inactive employees or beneficiaries currently receiving benefits	9
Inactive employees entitled to, but not yet receiving benefits	-
Total employees	36

DRAFT 01.28.21 12PM

11. OTHER POST-EMPLOYMENT BENEFITS (OPEB), Continued

Contributions

The City does not have an actuarially-determined contribution requirement as an irrevocable trust has not yet been established. The City currently administers the plan on a pay-as-you-go basis with eight (9) retirees currently receiving the PEMHCA minimum benefit. Total retiree OPEB premium payments, excluding the implicit rate subsidy of $14,578 were made by the City during the fiscal year ended June 30, 2020.

Net OPEB Liability

The City's net OPEB liability was measured as of June 30, 2020 and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation dated June 30, 2020 that was rolled forward to determine the June 30, 2020 total OPEB liability, based on the following actuarial methods and assumptions:

Actuarial Cost Method	Entry Age Normal (AMM)
Discount Rate	2. 66%
Inflation Rate	3. 00%
Salary Rate Increase	4. 00%
Mortality Rate	PubG. H-2010 Mortality Table - General
Funded Ratio	0. 00%
Health Care Trends	
Initial Health Care Cost Trend Rate	6. 30%
Ultimate Health Care Cost Trend Rate	4. 50%
Fiscal Year the Ultimate Rate is Reached	Fiscal Year 2035

Discount Rate

As of June 30, 2020, the City has not established a dedicated irrevocable trust to pay retiree healthcare benefits. Pursuant to GASBS 75, the discount rate should be a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher (or equivalent quality on another rating scale). A rate of 2. 66% is used, with is the Standard & Poor's Municipal Bond 20-Year High-Grade Rate Index as of actuarial valuation date.

DRAFT 01.28.21 12PM

11. OTHER POST-EMPLOYMENT BENEFITS (OPEB), Continued

Changes in the OPEB Liability

The changes in the net OPEB liability for the plan are as follows:

	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB Liability
Balances as of July 1, 2019	$ 570,116	$ -	$ 570,116
Changes recognized for the measurement period:			
Service Cost	21,745	-	21,745
Interest on total OPEB liability	15,090	-	15,090
Changes of benefit terms	-	-	-
Difference between expected and actual experience	(11,405)	-	(11,405)
Changes of assumptions and other inputs	(4,186)	-	(4,186)
Employer contributions	-	-	-
Active and inactive employee contributions	-	-	-
Net investment income	-	-	-
Benefit payments*	(58,507)	-	(58,507)
Administrative expenses	-	-	-
Other changes	3,047	-	3,047
Net changes	(34,216)	-	(34,216)
Balances as of June 30, 2020	$ 535,900	$ -	$ 535,900

**Includes the Implicit Rate Subsidy*

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

The following presents the net OPEB liability of the City if it were calculated using a discount rate that is one percentage point lower or higher than the current rate, as of the measurement June 30, 2020 date:

	1% Decrease (1. 66%)	Current Discount Rate (2. 66%)	1% Increase (3. 66%)
Net OPEB Liability	$ 500,328	$ 535,900	$ 576,560

Sensitivity of the Net OPEB Liability to Changes in the Health Care Cost Trend Rates

The following presents the net OPEB liability of the City if it were calculated using health care cost trend rates that are one percentage point lower or one percentage point higher than the current rate, for measurement the period ended June 30, 2020:

	1% Decrease (5. 30%)	Current Discount Rate (6. 30%)	1% Increase (7. 30%)
Net OPEB Liability	$ 558,559	$ 535,900	$ 516,175

DRAFT 01.28.21 12PM

11. OTHER POST-EMPLOYMENT BENEFITS (OPEB), Continued

OPEB Plan Fiduciary Net Position

As the City has not established an irrevocable trust to pay retiree health care benefits, the plan has a fiduciary net position of $0 as of June 30, 2020.

Recognition of Deferred Outflows and Deferred Inflows of Resources

Gains and losses related to changes in total OPEB liability and fiduciary net position are recognized in OPEB expense systematically over time. Amounts are first recognized in OPEB expense for the year the gain or loss occurs. The remaining amounts are categorized as deferred outflows and deferred inflows of resources related to OPEB and are to be recognized in future OPEB expense over an assumed expected average remaining service lifetime (EARSL) of 10. 70 years.

OPEB Expense and Deferred Outflows/Inflows of Resources Related to OPEB

For the fiscal year ended June 30, 2020, the City recognized OPEB revenue of $20,062. As of the fiscal year ended June 30, 2020, the City reported deferred outflows and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between actual and expected experiences	$ 16,301	$ 9,933
Changes in assumptions	28,316	20,020
Difference between expected and actual earnings on OPEB plan investments	-	-
Total	$ 44,617	$ 29,953

As an irrevocable trust for payment of retiree health benefits has not been established, there are no contributions subsequent to the measurement date to report, which would otherwise be recognized as a reduction of the net OPEB liability in the following fiscal year. Other amounts reported as deferred outflows and deferred inflows of resources related to OPEB will be recognized as OPEB expense as follows:

Fiscal Year Ending June 30	Deferred Outflows/(Inflows) of Resources
2021	$ 1,609
2022	1,609
2023	1,609
2024	1,609
2025	1,609
Thereafter	6,619
Total	$ 14,664

DRAFT 01.28.21 12PM

12. REDEVELOPMENT SUCCESSOR AGENCY ACTIVITIES

Background

On June 28, 2011, the California State Legislature adopted two pieces of legislation - AB IX 26 and AB IX 27 (the Bill) - that eliminated redevelopment agencies and provided cities with the opportunity to preserve their redevelopment agency if they agreed to make certain payments to the County Auditor Controller. On behalf of cities and redevelopment agencies throughout the State, the League of California Cities and California Redevelopment Association requested a stay on the implementation of both pieces of legislation and filed a lawsuit with the California Supreme Court challenging both pieces of legislation. The stay was rejected and on December 29, 2011, the Supreme Court validated AB IX 26 and overturned AB IX 27. Further, the Supreme Court indicated that all redevelopment agencies in the State of California were to be dissolved and cease operations as a legal entity as of February 1, 2012.

Under the new law, redevelopment agencies in the State of California cannot enter into new projects, obligations, or commitments. Subject to the control of a newly established oversight board, remaining assets can only be used to pay enforceable obligations in existence at the date of dissolution (including the completion of any unfinished project that were subject to legally enforceable contractual commitments).

In fiscal years subsequent to the statutory dissolution date, successor agencies are only allocated revenue in the amount that is necessary to pay the estimated annual installment payments on enforceable obligations of the former redevelopment agency until all enforceable obligations of the prior redevelopment agency have been paid in full and all assets have been liquidated.

The Bill directed the California State Controller to review the propriety of any transfers of assets between redevelopment agencies and other public bodies that occurred after January 1, 2011. If the public body that received such transfers is not contractually committed to a third party for the expenditure or encumbrance of those assets, the State Controller was required to order the available assets to be transferred to the public body designated as the Successor Agency by the Bill.

Amongst numerous requirements, AB IX 26 required the following:

i. Subject to the control of a newly established oversight board, assets of the former redevelopment agency must be disposed expeditiously and property tax revenue generated by a former redevelopment agency can only be used to pay enforceable obligations (i. e. debt obligations and other third party contractual obligations);
ii. Either the city or another unit of local government may agree to serve as the "Successor Agency" to hold the net position until they are distributed to units of state and local government;
iii. Successor agencies may transfer housing functions of the former redevelopment agency to the appropriate entity; and
iv. Any property tax revenue in excess of enforceable obligations is to be distributed by county auditor controllers to taxing entities, which includes the City, as surplus property tax.

DRAFT 01.28.21 12PM

12. REDEVELOPMENT SUCCESSOR AGENCY ACTIVITIES, Continued

Background, Continued

As a result of the restrictions placed on the assets and liabilities of the former redevelopment agency, they were transferred to a private purpose trust fund on February 1, 2012. Prior to the transfer, the Redevelopment Agency was treated as a blended component unit of the City until the fiscal year ending June 30, 2012. On January 11, 2012, the City Council elected to become the Successor Agency to the former Redevelopment Agency in accordance with AB IX 26 as part of City resolution number 03-2012.

Subsequent to the adoption of AB IX 26 and AB IX 27, the California State Legislature adopted AB 1484 in June 2012. Among other things, AB 1484 required the following:

i. A process to transfer housing assets of the former redevelopment agency to the entity designated to receive these assets. In the case of the City, assets with a total value of $14,057,320 and liabilities with a total value of $10,999,595 were transferred to the Successor Agency from the former Redevelopment Agency.

ii. Requirements that the Successor Agency must complete due diligence reviews (DDRs) of the assets of the former Low and Moderate Income Housing Fund and all other funds of the former redevelopment agency. The DDRs of the Clayton Successor Agency were finalized and approved by the Oversight Board on October 9, 2014 via Resolution No. 2014-04 and 2014-05. These reports concluded that payments of $887,404 and $3,791,725 are required to be remitted to Contra Costa County by the Redevelopment Successor Agency and Successor Housing Agency respectively.

The California Department of Finance (DOF) completed their review of the low and moderate income housing funds and issued a final determination letter to the City dated April 24, 2015 with no modifications. The Successor Housing Agency issued the payment specified by the DOF's low and moderate housing funds determination letter in the fiscal year ending June 30, 2015, resulting in a net extraordinary loss of $3,616,725 for the year then ended.

On November 30, 2015, the DOF issued their final determination letter approving the all other funds DDR report with modifications. The modifications required an additional payment of $230,983 to the County Auditor-Controller, which was reported as an Extraordinary Loss of the City's General Fund in the fiscal year ending June 30, 2016. The Successor Agency issued the payment specified by the DOF's final all other funds determination letter to the County Auditor-Controller's office in the fiscal year ending June 30, 2016, resulting in an extraordinary loss of $1,025,396 for the year then ended.

DRAFT 01.28.21 12PM

12. REDEVELOPMENT SUCCESSOR AGENCY ACTIVITIES, Continued

Background, Continued

Upon the DOF's approval of the DDRs, and the distribution of unobligated funds, the Successor Agency is authorized to apply for a "Finding of Completion". The Finding of Completion enables the Successor Agency to transfer and sell land and buildings of the former Redevelopment Agency, subject to the review and approval of a Property Management Plan by the State Department of Finance. In addition by receiving the Finding of Completion, the City may establish loans between the City and the former Redevelopment Agency as enforceable obligations. The Clayton Successor Received its finding of completion from the DOF on December 30, 2015.

Successor Agency Assets and Liabilities

Cash and Investments

The total cash and investments balance of $767,071 is presented in a format consistent with GASBS 31 and is presented at fair value. Pursuant to AB IX 26 and AB 1484, all unencumbered cash balances have been previously distributed to the County Auditor-Controller for distribution to taxing entitles. See Note 2 for further information and disclosures regarding the City's pooled cash and investments.

Restricted Cash and Investments

Cash and investments with fiscal agents of $13 at June 30, 2020 is restricted cash and investments designated for debt service payments.

Inter-Agency Loans

Notes Receivable transferred from former RDA to Successor Agency, effective February 1, 2012:

The former RDA provided assistance to special assessment districts within the City, to fund repairs and improvements. The High Street Permanent Road Division and Oak Street Sewer Assessment District received loans from the former RDA to finance necessary infrastructure improvements. These loans are secured by special assessment property tax levies within the District's boundaries. As of June 30, 2020, the outstanding balance of the loans due to the Successor Agency was $70,751.

On May 10, 2011, the former Redevelopment Agency received a loan from the Low to Moderate Income Housing Fund in the amount of $592,412 to partially cover a demand from the California Department of Finance (DOF) for property tax revenues to K-12 schools during the fiscal year ending June 30, 2012 via the Supplemental Educational Revenue Augmentation Funds (SERAF). Pursuant to the DOF determination letter approving the 2017-18 Recognized Obligation Payment Schedule (ROPS) dated March 17, 2017, the loan will be repaid by the Successor Agency through the ROPS process in four (4) installments commencing in the fiscal year ending June 30, 2019. The loan is non-interest bearing and had an outstanding balance due to the Successor Housing Agency of $148,103 as of June 30, 2020.

DRAFT 01.28.21 12PM

12. REDEVELOPMENT SUCCESSOR AGENCY ACTIVITIES, Continued

Long-Term Debt

The following is a summary of changes in long-term debt transactions for the year ended June 30, 2020:

	Balance July 1, 2019	Additions	Deletions	Balance June 30, 2020	Due in one year
2014 Tax Refunding Allocation Bonds	$ 2,340,000	$ -	$ (415,000)	$ 1,925,000	$ 420,000
Total	$ 2,340,000	$ -	$ (415,000)	$ 1,925,000	$ 420,000

2014 Refunding Tax Allocation Bonds

Refunding Tax Allocation Bonds, Series 2014, in the principal amount of $3,790,000 were issued on June 25, 2014 by the Successor Agency. Principal payments are payable on August 1 of each year, beginning on August 1, 2015. Interest payments are payable semi-annually on February 1 and August 1. The bonds are special obligations of the Successor Agency and are secured by the Successor Agency's tax increment revenue.

The 2014 refunding was exercised in order to take advantage of more favorable interest rates. The refunding decreased the City's total debt service payments by approximately $601,895. The transaction resulted in economic gain (difference between present value of the debt service on the old and new bonds) of approximately $580,184. For the current year, principal and interest paid were $415,000 and $49,048, respectively.

The annual debt service requirements to amortize the Successor Agency's 2014 Refunding Tax Allocation Bonds outstanding at June 30, 2020, were as follows:

Fiscal Year Ending June 30	Principal	Interest	Total
2021	$ 420,000	$ 39,445	$ 459,445
2022	360,000	30,475	390,475
2023	375,000	22,023	397,023
2024	380,000	13,340	393,340
2025	390,000	4,484	394,484
Total	$ 1,925,000	$ 109,767	$ 2,034,767

DRAFT 01.28.21 12PM

13. EQUITY BALANCES

Governmental Fund Balances

Fund balances are presented in the following categories: non-spendable, restricted, committed, assigned and unassigned (see Note 1 for a description of these categories). A detailed schedule of fund balances at June 30, 2020 is as follows:

	Major Funds					
Fund Balance Classifcations	General Fund	Landscape Maintenance District	Successor Housing Agency	Capital Improvement Program	Other Governmental Funds	Total
Nonspendable for:						
Notes receivable	$ 69,252	$ -	$ -	$ -	$ -	$ 69,252
Prepaid expenses	30,911	-	-	-	-	30,911
Total	100,163	-	-	-	-	100,163
Restricted for:						
Affordable housing	-	-	4,957,952	-	-	4,957,952
Public landscaping	-	563,887	-	-	-	563,887
Grant-funded programs	-	-	-	-	213,694	213,694
The Grove Park (CFD 2006-1)	-	-	-	-	406,456	406,456
Stormwater compliance	-	-	-	-	20,156	20,156
Neighborhood street lighting	-	-	-	-	46,288	46,288
Transportation	-	-	-	-	244,238	244,238
Total	-	563,887	4,957,952	-	930,832	6,452,671
Committed for:						
Presley Settlement	-	-	-	-	112,153	112,153
Geological hazard prevention and repair	-	-	-	-	3,209	3,209
Development impact	-	-	-	-	554,479	554,479
Total	-	-	-	-	669,841	669,841
Assigned for:						
Next year's budget	409,482	499,700	-	-	1,004,737	1,913,919
Capital projects	-	-	-	1,663,367	-	1,663,367
Total	409,482	499,700	-	1,663,367	1,004,737	3,577,286
Unassigned	5,654,925	-	-	-	(23,566)	5,631,359
Total Fund Balance	$ 6,164,570	$ 1,063,587	$ 4,957,952	$ 1,663,367	$ 2,581,844	$ 16,431,320

On February 3, 2016 the City Council approved the assignment and appropriation of $389,895 in General Fund reserves arising from the surplus reported in the fiscal year ending June 30, 2015. The purpose of this assignment was to address specific one-time capital and operational needs of the City that could not be addressed in the annual operating budget. At June 30, 2020, the balance of this assignment was $33,542, which was rolled into next year's budget for the specified City Council-authorized purposes.

DRAFT 01.28.21 12PM

13. EQUITY BALANCES, Continued

Governmental Fund Balances, Continued

On January 16, 2018 the City Council approved the assignment and appropriation of $299,000 in General Fund reserves arising from the surplus reported in the fiscal year ending June 30, 2017. The purpose of this assignment was to address specific one-time capital and operational needs of the City that could not be addressed in the annual operating budget. At June 30, 2020, the balance of this assignment was $42,640, which was rolled into next year's budget for the specified City Council-authorized purposes.

On June 23, 2020 the City Council approved the assignment and appropriation of $333,300 in General Fund reserves arising from the surplus reported in the fiscal year ending June 30, 2019. The purpose of this assignment was to create a new rainy day fund for the City. At June 30, 2020, the balance of this assignment was $333,300, which was rolled into next year's budget for the specified City Council-authorized purposes.

Net Position

The restricted component of net position includes assets subject to constraints either (1) externally imposed by creditors, grantors, contributors, or laws or regulations of other governments, or (2) imposed by law through constitutional provisions or enabling legislation. The restricted component of net position at June 30, 2020 for governmental activities includes:

Restricted for community and economic development:	
Affordable housing	$ 10,552,245
Restricted for public works:	
Public landscaping (CFD 2007-1)	563,887
Stormwater state mandate compliance	20,156
Neighborhood street lighting	46,288
Transportation	244,238
Restricted for general government:	
Grant-funded programs	175,396
Restricted for parks and recreation:	
The Grove Park (CFD 2006-1)	406,456
Restricted for public safety:	
Grant-funded programs	38,298
Total restricted net position	$ 12,046,964

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

REQUIRED SUPPLEMENTARY INFORMATION

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - General Fund

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Property taxes	$2,508,500	$2,508,500	$ 2,587,812	$ 79,312
Sales and use taxes	497,100	497,100	512,868	15,768
Business licenses	145,000	145,000	140,620	(4,380)
Permits, licenses and fees	171,440	171,440	153,629	(17,811)
Fines, forfeitures and penalties	98,800	98,800	93,556	(5,244)
Intergovernmental	103,900	103,900	103,940	40
Other in-lieu fees	167,600	167,600	167,677	77
Franchise fees	538,400	538,400	565,893	27,493
Service charges	331,570	331,570	324,893	(6,677)
Use of money and property	122,200	122,200	224,202	102,002
Other revenue	10,000	10,000	30,489	20,489
Total Revenues	$4,694,510	4,694,510	4,905,579	211,069
EXPENDITURES				
Current:				
General government	1,281,130	1,281,130	1,280,349	781
Public works	302,570	302,570	354,189	(51,619)
Parks and recreation services	429,910	429,910	359,588	70,322
Community and economic development	341,340	341,340	258,637	82,703
Public safety	2,419,500	2,419,500	2,346,730	72,770
Capital Outlay	36,393	36,393	-	36,393
Total Expenditures	4,810,843	4,810,843	4,599,493	211,350
Revenues Over (Under) Expenditures	(116,333)	(116,333)	306,086	422,419
OTHER FINANCING SOURCES (USES)				
Transfers in	119,690	119,690	119,690	-
Transfers out	(50,000)	(50,000)	(21,351)	28,649
Total Other Financing Sources (Uses)	69,690	69,690	98,339	28,649
Change in fund balance	$ (46,643)	$ (46,643)	404,425	$ 451,068
FUND BALANCE				
Beginning of year			5,760,145	
End of year			$ 6,164,570	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Landscape Maintenance District

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Special parcel tax	$ 1,155,398	$ 1,155,398	$ 1,156,944	$ 1,546
Use of money and property	20,000	20,000	44,185	24,185
Other revenue	-	-	1,805	
Total Revenues	1,175,398	1,175,398	1,202,934	25,731
EXPENDITURES				
Current:				
Public works	1,117,500	1,117,500	1,034,174	83,326
Capital Outlay	363,157	363,157	291,959	71,198
Total Expenditures	1,480,657	1,480,657	1,326,133	154,524
Revenues Over (Under) Expenditures	(305,259)	(305,259)	(123,199)	180,255
OTHER FINANCING SOURCES (USES)				
Transfers out	(39,850)	(39,850)	(39,850)	-
Total Other Financing Sources (Uses)	(39,850)	(39,850)	(39,850)	-
Change in fund balance	$ (345,109)	$ (345,109)	(163,049)	$ 182,060
FUND BALANCE				
Beginning of year			1,226,636	
End of year			$ 1,063,587	

DRAFT 01.28.21 12PM

City of Clayton
Required Supplementary Information
For the year ended June 30, 2020

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Successor Housing Agency

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Program income	$ 101,400	$ 101,400	$ 101,400	$ -
Use of money and property	20,000	20,000	27,848	7,848
Total Revenues	121,400	121,400	129,248	7,848
EXPENDITURES				
Current:				
Community and economic development	39,855	39,855	37,618	2,237
Total Expenditures	39,855	39,855	37,618	2,237
Revenues Over (Under) Expenditures	81,545	81,545	91,630	10,085
OTHER FINANCING SOURCES (USES)				
Unrealized gains (losses)	-	-	211,761	211,761
Total Other Financing Sources (Uses)	-	-	211,761	211,761
Change in fund balance	$ 81,545	$ 81,545	303,391	$ 221,846
FUND BALANCE				
Beginning of year			4,654,561	
End of year			$ 4,957,952	

DRAFT 01.28.21 12PM

City of Clayton
Required Supplementary Information
For the Year Ended June 30, 2020

Schedule of Proportionate Share of Net Pension Liability
Last 10 Years*

	Fiscal Year Ending June 30*					
	2020	2019	2018	2017	2016	2015
Measurement Date	6/30/2019	6/30/2018	6/30/2017	6/30/2016	6/30/2015	6/30/2014
Plan's Proportion of the Net Pension Liability/(Asset)	0.047570%	0.048490%	0.049420%	0.051003%	0.052357%	0.030626%
Plan's Proportionate Share of the Net Pension Liability/(Asset)	$ 4,874,908	$ 4,672,754	$ 4,901,330	$ 4,413,357	$ 3,593,771	$ 3,693,394
Plan's Covered-Employee Payroll**	$ 2,016,021	$ 1,995,400	$ 1,931,042	$ 1,820,066	$ 1,706,509	$ 1,963,054
Plan's Proportionate Share of the Net Pension Liability/(Asset) as a Percentage of its Covered-Employee Payroll	241.81%	234.18%	253.82%	242.48%	210.59%	188.15%
Plan's Proportionate Share of the Fiduciary Net Position as a Percentage of the Plan's Total Pension Liability	75.26%	76.24%	73.86%	74.06%	78.40%	77.60%

* Fiscal year ending June 30, 2015 was the 1st year of implementation, future years' information will be displayed up to 10 years, as information becomes available.

** For the year ending on the measurement date.

DRAFT 01.28.21 12PM

City of Clayton
Required Supplementary Information
For the Year Ended June 30, 2020

Schedule of Pension Plan Contributions
Last 10 Years*

	June 30, 2020	2019	2018	2017	2016	2015
Actuarially determined contributions*	$ 577,734	$ 530,067	$ 612,898	$ 573,677	$ 530,677	$ 375,647
Contributions in relation to the actuarially determined contribution	577,734	530,067	612,898	573,677	530,677	375,647
Contribution deficiency (excess)	$ -	$ -	$ -	$ -	$ -	$ -
Covered-employee payroll**	$ 2,064,898	$ 2,016,021	$ 1,995,400	$ 1,931,042	$ 1,820,066	$ 1,706,509
Contributions as a percentage of covered employee payroll	27.98%	26.29%	30.72%	29.71%	29.16%	22.01%

* Excludes employer-paid member contributions (EPMC)
** For the fiscal year ending on the date shown

Actuarially determined contribution assumptions:**

Valuation Date	June 30, 2017
Actuarial cost method	Entry age normal cost method
Amortization method	Level percent of pay, direct rate smoothing
Remaining amortization periods	Differs by employer rate plan but not more than 30 years
Asset valuation method	Market value of assets
Inflation	2.625%
Salary increases	Varies by entry age and service
Discount rate***	7.25% (net of administrative expenses)
Mortality	Derived using CalPERS' Membership Data for all Funds. The post-retirement mortality rates include 15 years of projected on-going mortality improvement using 90 percent of Scale MP 2016 published by the Society of Actuaries.

* Fiscal year ending June 30, 2015 was the 1st year of implementation, future years' information will be displayed, up to 10 years, as information becomes available.
** From the CalPERS reports found at:
https://www.calpers.ca.gov/docs/forms-publications/actuarial-valuation-section2-miscellaneous-2017.pdf
https://www.calpers.ca.gov/docs/forms-publications/actuarial-valuation-section2-safety-2017.pdf
*** The discount rate used for Actuarially Determined Contributions (ARC) is different from the one used for Total Pension Liability.

DRAFT 01.28.21 12PM

Schedule of Changes in the Net OPEB Liability and Related Ratios
Last 10 Years*

	Fiscal Year Ended June 30, 2020	Fiscal Year Ended June 30, 2019	Fiscal Year Ended June 30, 2018
Measurement Date	6/30/2020	6/29/2019	6/29/2018
Total OPEB Liability:			
Total OPEB liability - Beginning	$ 570,116	$ 545,327	$ 464,490
Changes recognized for the measurement period:			
Service cost	21,745	28,428	27,530
Interest on total OPEB liability	15,090	15,783	15,800
Changes of benefit terms	-	-	45,605
Difference between expected and actual experience	(11,405)	-	22,654
Changes of assumptions and other inputs	(4,186)	9,159	16,307
Benefit payments[1]	(58,507)	(31,408)	(30,226)
Other changes	3,047	2,827	(16,833)
Net change in total OPEB liability	(34,216)	24,789	80,837
Total OPEB liability - Ending	535,900	570,116	545,327
Plan Fiduciary Net Position:			
Plan fiduciary net position - Beginning	$ -	$ -	$ -
Changes recognized for the measurement period:			
Contributions - Employer	-	-	-
Net investment income	-	-	-
Benefit payments	-	-	-
Administrative expense	-	-	-
Net change in plan fiduciary net position	-	-	-
Plan fiduciary net position - Ending[2]	-	-	-
Net OPEB Liability - Ending	**$ 535,900**	**$ 570,116**	**$ 545,327**
Plan Fiduciary net position as a percentage of the total OPEB liability	0.00%	0.00%	0.00%
Covered-employee payroll	$ 2,307,289	$ 2,016,021	$ 1,995,400
Net OPEB liability as a percentage of covered employee payroll	23.23%	28.28%	27.33%

* Fiscal year ending June 30, 2018 was the 1st year of implementation, future years' information will be displayed, up to 10 years, as information becomes available.

[1] Includes the implicit rate subsidy.

[2] As of the year ended June 30, 2020 the City had not established an irrevocable trust for payment of OPEB plan benefits.

DRAFT 01.28.21 12PM

Schedule of OPEB Plan Contributions
Last 10 Years*

	Fiscal Year Ended June 30, 2020	Fiscal Year Ended June 30, 2019	Fiscal Year Ended June 30, 2018
Actuarially determined contributions (ADC)[1]	$ -	$ -	$ -
Contributions in relation to the ADC	-	-	-
Contribution deficiency (excess)	$ -	$ -	$ -
Covered-employee payroll[2]	$ 2,307,289	$ 2,016,021	$ 1,995,400
Contributions as a percentage of covered-employee payroll	0.00%	0.00%	0.00%

* Fiscal year ending June 30, 2018 was the 1st year of implementation, future years' information will be displayed up to 10 years, as information becomes available.

[1] As of the year ended June 30, 2020 the City had not established an irrevocable trust for payment of OPEB plan benefits.

[2] For the fiscal year ending on the date shown

DRAFT 01.28.21 12PM

1. BUDGETARY PRINCIPLES

The City follows these procedures in establishing the budgetary data reflected in the financial statements:

- By June 30, the City Manager submits to the City Council a proposed operating budget for the year commencing July 1. The operating budget includes proposed expenditures and the means of financing them. Continuing appropriations are re-budgeted by the City Council as part of the adoption of subsequent year's budgets.

- Public hearings are conducted to obtain taxpayer comments.

- The budget is legally enacted through passage of a resolution during a City Council meeting in the month of June.

- The City Manager is authorized to transfer budgeted amounts within an activity, within any fund; however, any revisions that alter the total expenditures of any fund must be approved by the City Council.

- Formal budgeting is employed as a management control device during the year for the general, certain special revenue and debt service funds. The Presley Settlement, Stormwater Treatment District Assessment, and Clayton Development Impact Fees funds are not budgeted for and thus do not have budget to actual comparison statements.

- Budgets for the general, certain special revenue and debt service funds are adopted on a basis consistent with generally accepted accounting principles (US GAAP).

- Budgets for capital projects funds are adopted on a project-life basis.

Budgeted amounts are as originally adopted or as amended by the City Council. Budget amendments were not material in relation to the original appropriations.

2. PENSION AND OTHER POSTEMPLOYMENT BENEFITS

This information is intended to help users assess the City's Pension and Other Postemployment Benefits (OPEB) plan's status on a going-concern basis, assess progress made in accumulating assets to pay benefits when due, and make comparisons with other public employers.

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

SUPPLEMENTARY INFORMATION

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Major Governmental Fund Budgetary Comparison Schedule
For the year ended June 30, 2020

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Capital Improvement Program

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Intergovernmental	$ 1,616,172	$ 1,616,172	$ 518,628	$ (1,097,544)
Program income	-	-	-	-
Use of money and property	-	-	57,868	57,868
Total Revenues	1,616,172	1,616,172	576,496	(1,039,676)
EXPENDITURES				
Capital outlay	2,996,371	2,996,371	759,680	2,236,691
Total Expenditures	2,996,371	2,996,371	759,680	2,236,691
Revenues Over (Under) Expenditures	(1,380,199)	(1,380,199)	(183,184)	1,197,015
OTHER FINANCING SOURCES (USES)				
Transfers in	1,114,624	1,114,624	34,484	(1,080,140)
Transfers out	-	-	-	-
Total Other Financing Sources (Uses)	1,114,624	1,114,624	34,484	(1,080,140)
Change in fund balance	$ (265,575)	$ (265,575)	(148,700)	$ 116,875
FUND BALANCE				
Beginning of year			1,812,067	
End of year			$ 1,663,367	

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

NON-MAJOR GOVERNMENTAL FUNDS

Non-Major Special Revenue Funds:

Development Impact Fees - Accounts for projects funded with the development impact fees.

Gas Tax HUTA - Accounts for taxes raised under Street and Highway Code Sections 2106, 2107 and 2107. 5, used for the maintenance and construction of City streets.

Gas Tax RMRA - Accounts for taxes raised under Road Maintenance and Rehabilitation Account (SB1), used for the maintenance and construction of City streets.

Grants - Accounts for grants received for specific programs and projects.

The Grove Park District - Accounts for voter-approved real property special parcel taxes restricted for the operation, maintenance, repair and replacement landscaping, irrigation, hardscaping, lighting, public restroom, gazebo, and playground equipment for "The Grove Park" in the downtown area.

Measure J - Accounts for a $0. 05 sales tax extended by voters in 2004 to provide transportation and street improvements, a growth management process, and a regional planning process to address quality of life issues. A portion of their county wide voter-approved tax is returned to local governments.

Neighborhood Street Lighting District - Accounts for assessments collected to maintain residential street lighting within the defined benefit assessment district boundaries.

Oakhurst Geological Hazard Abatement District - Accounts for voter-approved real property assessments collected from Oakhurst parcels to provide preventive maintenance measures and to mitigate potential landslides and other hazardous geological conditions within the benefit assessment district boundaries.

Presley Settlement - Accounts for litigation settlement proceeds restricted for specific programs and projects.

Stormwater Assessment District - Accounts for real property assessments collected to comply with the National Pollution Discharge Elimination System (NPDES).

Stormwater Treatment Assessment District - This fund was formed to provide a mechanism for the levying of private development (property) benefit assessments to fund the cost of inspections, maintenance and capital improvements related to the stormwater treatment requirements imposed upon the City by the Regional Water Quality Control Board as part of the City's General Stormwater Discharge Permit.

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Balance Sheets - Non-major Governmental Funds
June 30, 2020

	Special Revenue				
	Development Impact Fees	Gas Tax HUTA	Gas Tax RMRA	Grants	The Grove Park District
ASSETS					
Cash and investments	$ 566,515	$ 410,178	$ 397,679	$ 379,983	$ 409,900
Accounts receivable	-	-	30,820	3,673	-
Total Assets	$ 566,515	$ 410,178	$ 428,499	$ 383,656	$ 409,900
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND FUND BALANCES					
Liabilities:					
Accounts payable	$ 12,036	$ 14,891	$ -	$ 2,258	$ 3,444
Other payables	-	-	-	-	-
Due to other funds	-	-	-	-	-
Advance from other funds	-	-	-	-	-
Total Liabilities	12,036	14,891	-	2,258	3,444
Fund Balance:					
Restricted	-	(4,385)	248,623	213,694	406,456
Committed	554,479	-	-	-	-
Assigned	-	399,672	179,876	167,704	-
Unassigned	-	-	-	-	-
Total Fund Balance	554,479	395,287	428,499	381,398	406,456
Total Liabilities, Deferred Inflows of Resources and Fund Balances	$ 566,515	$ 410,178	$ 428,499	$ 383,656	$ 409,900

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Balance Sheets - Non-major Governmental Funds
June 30, 2020

Special Revenue						
Measure J	Neighborhood Street Lighting District	Oakhurst Geological Hazard Abatement District	Presley Settlement	Stormwater Assessment	Stormwater Treatment Assessment District	Total Other Governmental Funds
$ 89,498	$ 94,979	$ 57,972	$ 112,153	$ 41,946	$ -	$ 2,560,803
-	-	-	-	45,716	-	80,209
$ 89,498	$ 94,979	$ 57,972	$ 112,153	$ 87,662	$ -	$ 2,641,012
$ 1,207	$ 10,472	$ 1,360	$ -	$ 13,500	$ -	$ 59,168
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1,207	10,472	1,360	-	13,500	-	59,168
	46,288	-	-	20,156	-	930,832
-	-	3,209	112,153	-	-	669,841
111,857	38,219	53,403	-	54,006	-	1,004,737
(23,566)	-	-	-	-	-	(23,566)
88,291	84,507	56,612	112,153	74,162	-	2,581,844
$ 89,498	$ 94,979	$ 57,972	$ 112,153	$ 87,662	$ -	$ 2,641,012

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Revenues, Expenditures and Changes in Fund Balances
Non-major Governmental Funds - For the year ended June 30, 2020

	Special Revenue				
	Development Impact Fees	Gas Tax HUTA	Gas Tax RMRA	Grants	The Grove Park District
REVENUES					
Special parcel taxes and assessments	$ -	$ 40,591	$ -	$ -	$ 138,090
Permits, licenses and fees	-	-	-	-	1,125
Intergovernmental	-	272,856	219,589	173,304	-
Use of money and property	21,649	14,824	13,265	14,431	14,729
Other revenue	-	-	-	-	1,000
Total Revenues	21,649	328,271	232,854	187,735	154,944
EXPENDITURES					
Current:					
General government	-	-	-	37,071	-
Public works	-	176,936	-	-	-
Parks and recreation services	-	-	-	-	92,947
Community and economic development	-	-	-	-	-
Public safety	-	-	-	116,600	-
Capital outlay	12,011	-	-	9,521	-
Total Expenditures	12,011	176,936	-	163,192	92,947
Revenues Over (Under) Expenditures	9,638	151,335	232,854	24,543	61,997
OTHER FINANCING SOURCES (USES)					
Transfers in	-	-	-	-	-
Transfers out	-	(23,743)	-	-	(7,880)
Total Other Financing Sources (Uses)	-	(23,743)	-	-	(7,880)
Net change in fund balances	9,638	127,592	232,854	24,543	54,117
FUND BALANCES					
Beginning of year	544,841	267,695	195,645	356,855	352,339
End of year	$ 554,479	$ 395,287	$ 428,499	$ 381,398	$ 406,456

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Revenues, Expenditures and Changes in Fund Balances
Non-major Governmental Funds - For the year ended June 30, 2020

Special Revenue						
Measure J	Neighborhood Street Lighting District	Oakhurst Geological Hazard Abatement District	Presley Settlement	Stormwater Assessment	Stormwater Treatment Assessment District	Total Other Governmental Funds
$ -	$ 125,991	$ 41,064	$ -	$ 79,553	$ -	$ 425,289
-	-	-	-	63,365	-	64,490
275,395	-	-	-	-	-	941,144
9,689	3,459	1,945	4,237	1,462	-	99,690
-	-	-	-	-	-	1,000
285,084	129,450	43,009	4,237	144,380	-	1,531,613
-	-	-	-	-	-	37,071
26,176	129,105	13,721	-	119,304	-	465,242
-	-	-	-	-	-	92,947
-	-	-	-	-	-	-
-	-	-	-	-	-	116,600
-	-	2,635	-	-	-	24,167
26,176	129,105	16,356	-	119,304	-	736,027
258,908	345	26,653	4,237	25,076	-	795,586
-	-	-	-	1,090	2,550	3,640
(4,830)	(12,390)	(7,780)	-	(39,990)	-	(96,613)
(4,830)	(12,390)	(7,780)	-	(38,900)	2,550	(92,973)
254,078	(12,045)	18,873	4,237	(13,824)	2,550	702,613
(165,787)	96,552	37,739	107,916	87,986	(2,550)	1,879,231
$ 88,291	$ 84,507	$ 56,612	$ 112,153	$ 74,162	$ -	$ 2,581,844

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Non-Major Governmental Funds
For the year ended June 30, 2020

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Development Impact Fees

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Permits, licenses and fees	$ -	$ -	$ -	$ -
Use of money and property	10,000	10,000	21,649	11,649
Total Revenues	10,000	10,000	21,649	11,649
EXPENDITURES				
Current:				
Public safety	-	-	-	-
Capital Outlay	48,330	48,330	12,011	36,319
Total Expenditures	48,330	48,330	12,011	36,319
Revenues Over (Under) Expenditures	(38,330)	(38,330)	9,638	47,968
OTHER FINANCING SOURCES (USES)				
Transfers out	-	-	-	-
Total Other Financing Sources (Uses)	-	-	-	-
Change in fund balance	$ (38,330)	$ (38,330)	9,638	$ 47,968
FUND BALANCE				
Beginning of year			544,841	
End of year			$ 554,479	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Gas Tax HUTA

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Special parcel taxes and assessments	$ 39,300	$ 39,300	$ 40,591	$ 1,291
Intergovernmental	305,890	305,890	272,856	(33,034)
Use of money and property	3,000	3,000	14,824	11,824
Other revenue	-	-	-	-
Total Revenues	348,190	348,190	328,271	(19,919)
EXPENDITURES				
Public works	185,500	185,500	176,936	8,564
Total Expenditures	185,500	185,500	176,936	8,564
Revenues Over (Under) Expenditures	162,690	162,690	151,335	(11,355)
OTHER FINANCING SOURCES (USES)				
Transfers out	(364,595)	(364,595)	(23,743)	340,852
Total Other Financing Sources (Uses)	(364,595)	(364,595)	(23,743)	340,852
Change in fund balance	$ (201,905)	$ (201,905)	127,592	$ 329,497
FUND BALANCE				
Beginning of year			267,695	
End of year			$ 395,287	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Gas Tax RMRA

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Intergovernmental	$ 189,200	$ 189,200	$ 219,589	$ 30,389
Use of money and property	1,000	1,000	13,265	12,265
Total Revenues	190,200	190,200	232,854	42,654
EXPENDITURES				
Public works	-	-	-	-
Total Expenditures	-	-	-	-
Revenues Over (Under) Expenditures	190,200	190,200	232,854	42,654
OTHER FINANCING SOURCES (USES)				
Transfers out	(359,147)	(359,147)	-	359,147
Total Other Financing Sources (Uses)	(359,147)	(359,147)	-	359,147
Change in fund balance	$ (168,947)	$ (168,947)	232,854	$ 401,801
FUND BALANCE				
Beginning of year			195,645	
End of year			$ 428,499	

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Non-Major Governmental Funds
For the year ended June 30, 2020

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Grants

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Intergovernmental	$ 147,200	$ 147,200	$ 173,304	$ 26,104
Use of money and property	5,000	5,000	14,431	9,431
Total Revenues	152,200	152,200	187,735	35,535
EXPENDITURES				
Current:				
General government	34,000	34,000	37,071	(3,071)
Public safety	120,870	120,870	116,600	4,270
Capital outlay	31,621	31,621	9,521	22,100
Total Expenditures	186,491	186,491	163,192	23,299
Revenues Over (Under) Expenditures	(34,291)	(34,291)	24,543	58,834
Change in fund balance	$ (34,291)	$ (34,291)	24,543	$ 58,834
FUND BALANCE				
Beginning of year			356,855	
End of year			$ 381,398	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - The Grove Park District

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Special parcel taxes and assessments	$ 138,210	$ 138,210	$ 138,090	$ (120)
Permits, licenses and fees	1,200	1,200	1,125	(75)
Use of money and property	6,000	6,000	14,729	8,729
Other revenue	-	-	1,000	1,000
Total Revenues	145,410	145,410	154,944	9,534
EXPENDITURES				
Current:				
Parks and recreation services	115,160	115,160	92,947	22,213
Capital Outlay	-	-	-	-
Total Expenditures	115,160	115,160	92,947	22,213
Revenues Over (Under) Expenditures	30,250	30,250	61,997	31,747
OTHER FINANCING SOURCES (USES)				
Transfers out	(7,880)	(7,880)	(7,880)	-
Total Other Financing Sources (Uses)	(7,880)	(7,880)	(7,880)	-
Change in fund balance	$ 22,370	$ 22,370	54,117	$ 31,747
FUND BALANCE				
Beginning of year			352,339	
End of year			$ 406,456	

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Non-Major Governmental Funds
For the year ended June 30, 2020

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Measure J

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Intergovernmental	$ 328,938	$ 328,938	$ 275,395	$ (53,543)
Use of money and property	2,000	2,000	9,689	7,689
Total Revenues	330,938	330,938	285,084	(45,854)
EXPENDITURES				
Current:				
Public works	32,000	32,000	26,176	5,824
Total Expenditures	32,000	32,000	26,176	5,824
Revenues Over (Under) Expenditures	298,938	298,938	258,908	(40,030)
OTHER FINANCING SOURCES (USES)				
Transfers out	(353,772)	(353,772)	(4,830)	348,942
Total Other Financing Sources (Uses)	(353,772)	(353,772)	(4,830)	348,942
Change in fund balance	$ (54,834)	$ (54,834)	254,078	$ 308,912
FUND BALANCE				
Beginning of year			(165,787)	
End of year			$ 88,291	

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Non-Major Governmental Funds
For the year ended June 30, 2020

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Neighborhood Street Lighting District

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Special parcel taxes and assessments	$ 125,991	$ 125,991	$ 125,991	$ -
Use of money and property	1,800	1,800	3,459	1,659
Total Revenues	127,791	127,791	129,450	1,659
EXPENDITURES				
Current:				
Public works	149,050	149,050	129,105	19,945
Total Expenditures	149,050	149,050	129,105	19,945
Revenues Over (Under) Expenditures	(21,259)	(21,259)	345	21,604
OTHER FINANCING SOURCES (USES)				
Transfers out	(12,390)	(12,390)	(12,390)	-
Total Other Financing Sources (Uses)	(12,390)	(12,390)	(12,390)	-
Change in fund balance	$ (33,649)	$ (33,649)	(12,045)	$ 21,604
FUND BALANCE				
Beginning of year			96,552	
End of year			$ 84,507	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Oakhurst Geological Hazard and Abatement District

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Special parcel taxes and assessments	$ 42,712	$ 42,712	$ 41,064	$ (1,648)
Use of money and property	200	200	1,945	1,745
Total Revenues	42,912	42,912	43,009	97
EXPENDITURES				
Current:				
Public works	19,260	19,260	13,721	5,539
Capital outlay	20,427	20,427	2,635	17,792
Total Expenditures	39,687	39,687	16,356	23,331
Revenues Over (Under) Expenditures	3,225	3,225	26,653	23,428
OTHER FINANCING SOURCES (USES)				
Transfers out	(7,780)	(7,780)	(7,780)	-
Total Other Financing Sources (Uses)	(7,780)	(7,780)	(7,780)	-
Change in fund balance	$ (4,555)	$ (4,555)	18,873	$ 23,428
FUND BALANCE				
Beginning of year			37,739	
End of year			$ 56,612	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Presley Settlement

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Use of money and property	$ 1,500	$ 1,500	$ 4,237	$ 2,737
Total Revenues	1,500	1,500	4,237	2,737
EXPENDITURES				
Current:				
Public works	-	-	-	-
Capital outlay	-	-	-	-
Total Expenditures	-	-	-	-
Revenues Over (Under) Expenditures	1,500	1,500	4,237	2,737
Change in fund balance	$ 1,500	$ 1,500	4,237	$ 2,737
FUND BALANCE				
Beginning of year			107,916	
End of year			$ 112,153	

DRAFT 01.28.21 12PM

Schedule of Revenues, Expenditures and Changes in Fund Balance
Budgetary Comparison Schedule - Stormwater Assessment District

	Adopted Budget	Final Budget	Actual	Variance from Final Budget Positive (Negative)
REVENUES				
Special parcel taxes and assessments	$ 73,705	$ 73,705	$ 79,553	$ 5,848
Permits, licenses and fees	60,920	60,920	63,365	2,445
Use of money and property	1,000	1,000	1,462	462
Total Revenues	135,625	135,625	144,380	8,755
EXPENDITURES				
Current:				
Public works	147,670	147,670	119,304	28,366
Total Expenditures	147,670	147,670	119,304	28,366
Revenues Over (Under) Expenditures	(12,045)	(12,045)	25,076	37,121
OTHER FINANCING SOURCES (USES)				
Transfers in	1,080	1,080	1,090	10
Transfers out	(39,990)	(39,990)	(39,990)	-
Total Other Financing Sources (Uses)	(38,910)	(38,910)	(38,900)	10
Change in fund balance	$ (50,955)	$ (50,955)	(13,824)	$ 37,131
FUND BALANCE				
Beginning of year			87,986	
End of year			$ 74,162	

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

INTERNAL SERVICE FUNDS

Internal service funds account for activities that provide goods or services to other City funds or department on a cost reimbursement basis. The following are the City's internal service funds:

Capital Equipment Replacement Fund (CERF) - This fund accounts for the operation, maintenance, depreciation, and replacement of City vehicles and equipment.

Self-Insurance Fund - This fund accounts for the administration of the City's self-insurance program and payment of workers' compensation and liability claims.

Pension Rate Stabilization Fund - This fund stabilizes major fluctuations in annual employer pension costs driven by market factors and actuarial changes.

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Net Position - Internal Service Funds
June 30, 2020

	Capital Equipment Replacement	Pension Rate Stabilization	Self-Insurance	Total
ASSETS				
Current assets:				
Cash and investments	$ 185,929	$ 285,332	$ 33,407	$ 504,668
Noncurrent assets:				
Depreciable assets, net	493,547	-	-	493,547
Total Asset	679,476	285,332	33,407	998,215
LIABILITIES				
Current liabilities:				
Accounts payable	-	-	-	-
Total Liabilities	-	-	-	-
NET POSITION				
Net investment in capital assets	493,547	-	-	493,547
Unrestricted	185,929	285,332	33,407	504,668
Total Net Position	$ 679,476	$ 285,332	$ 33,407	$ 998,215

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Revenues, Expenses and Changes in Net Position
Internal Service Funds - For the year ended June 30, 2020

	Capital Equipment Replacement	Pension Rate Stabilization	Self-Insurance	Total
OPERATING REVENUES				
Charges for current services	$ 112,100	$ -	$ -	$ 112,100
Total Operating Revenues	112,100	-	-	112,100
OPERATING EXPENSES				
General and administrative	-	-	3,311	3,311
Depreciation and amortization	88,453	-	-	88,453
Total Operating Expenses	88,453	-	3,311	91,764
Operating Income (Loss)	23,647	-	(3,311)	20,336
NONOPERATING REVENUES (EXPENSES)				
Gain (loss) on disposal of assets	5,760	-	-	5,760
Investment income (loss)	6,764	10,781	1,288	18,833
Total Nonoperating Revenues (Expenses)	12,524	10,781	1,288	24,593
Net (loss) Before Contributions and Operating Transfers	36,171	10,781	(2,023)	44,929
Capital contributions	-	-	-	-
Transfers in	-	-	-	-
Change in Net Position	36,171	10,781	(2,023)	44,929
NET POSITION:				
Beginning of fiscal year	643,305	274,551	35,430	953,286
End of fiscal year	$ 679,476	$ 285,332	$ 33,407	$ 998,215

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Cash Flows - Internal Service Funds
For the year ended June 30, 2020

	Capital Equipment Replacement	Pension Rate Stabilization	Self-Insurance	Total
CASH FLOWS FROM OPERATING ACTIVITIES:				
Receipts from customers	$ 112,100	$ -	$ -	$ 112,100
Claims paid	-	-	(3,311)	(3,311)
Net cash provided (used) by operating activities	112,100	-	(3,311)	108,789
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES:				
Transfers in	-	-	-	-
Net cash provided (used) by noncapital financing activities	-	-	-	-
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES:				
Acquisition of capital assets	(91,701)	-	-	(91,701)
Proceeds from the sale of capital assets	5,760	-	-	5,760
Net cash provided (used) by capital and related financing activities	(85,941)	-	-	(85,941)
CASH FLOWS FROM INVESTING ACTIVITIES:				
Interest received on investments	6,764	10,781	1,288	18,833
Net Cash provided (used) by investing activities	6,764	10,781	1,288	18,833
Net increase (decrease) in cash and cash equivalents	32,923	10,781	(2,023)	41,681
CASH AND CASH EQUIVALENTS:				
Beginning of fiscal year	153,006	274,551	35,430	462,987
End of fiscal year	$ 185,929	$ 285,332	$ 33,407	$ 504,668
RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH PROVIDED (USED) BY OPERATING ACTIVITIES:				
Operating income (loss)	$ 23,647	$ -	$ (3,311)	$ 20,336
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:				
Depreciation and amortization	88,453	-	-	88,453
Changes in current assets and liabilities:				
Increase (decrease) in accounts payable	-	-	-	-
Net cash provided (used) by operating activities	$ 112,100	$ -	$ (3,311)	$ 108,789

DRAFT 01.28.21 12PM

AGENCY FUNDS

Agency Funds are used to account for assets held by the City in a fiduciary capacity or as an agent for individuals, government entities and other non-public organizations. The following are reported as agency funds:

Clayton Financing Authority - Accounts for projects related to the Financing Authority.

Clayton Financing Authority 2007 Refunding Bonds - Accounts for the refunding of the Authority's 1997 Special Tax Revenue Refunding Bonds payable from revenues received by the Authority as the result of payment of debt service on the local obligations of the Middle School CFD 1990-1 Bonds.

Deposits– Represents funds held for: performance deposits, Clayton Community Gym donation deposits, refundable rental security deposits, planning services deposits, engineering plan check deposits, and other various deposits.

Diablo Estates Benefit Assessment District – Accounts for parcel owner approved real property assessments collected to maintain certain infrastructure components (including street lighting) for the Diablo Estates development.

High Street Bridge Benefit Assessment District – Accounts for real property assessments collected to maintain bridges.

Lydia Lane Sewer Benefit Assessment District – Accounts for real property assessments to be collected for construction of a sewer system.

Middle School Community Facilities District – Accounts for special parcel taxes restricted to repay indebtedness of the Middle School Community Facilities District No. 1990-1.

Oak Street Bridge Benefit Assessment District – Accounts for real property assessments collected to maintain bridges.

Oak Street Sewer Benefit Assessment District – Accounts for real property assessments to be collected for construction of a sewer system.

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Changes in Assets and Liabilities - Agency Funds
For the year ended June 30, 2020

	Balance July 1, 2019	Additions	Deductions	Balance June 30, 2020
Clayton Financing Authority				
Assets:				
Cash and investments	$ 567,983	$ 22,305	$ -	$ 590,288
Total Assets	$ 567,983	$ 22,305	$ -	$ 590,288
Liabilities:				
Other liabilities	$ 567,983	$ 22,305	$ -	$ 590,288
Total Liabilities	$ 567,983	$ 22,305	$ -	$ 590,288
Clayton Financing Authority 2007 Refunding Bonds				
Assets:				
Cash and investments	$ 115,686	$ 731,945	$ (740,767)	$ 106,864
Cash with fiscal agent	370,602	401,266	(416,596)	355,272
Accounts receivable	36,760	-	(8,300)	28,460
Prepaid expenses	-	2,541	-	2,541
Investment in bonds	1,696,000	-	(383,000)	1,313,000
Total Assets	$ 2,219,048	$ 1,135,752	$ (1,548,663)	$ 1,806,137
Liabilities:				
Accounts payable	$ -	$ 367,433	$ (364,892)	$ 2,541
Other liabilities	669,048	440,753	(496,205)	613,596
Due to bondholders	1,550,000	-	(360,000)	1,190,000
Total Liabilities	$ 2,219,048	$ 808,186	$ (1,221,097)	$ 1,806,137
Deposits				
Assets:				
Cash and investments	$ 704,946	$ 370,828	$ (290,489)	$ 785,285
Total Assets	$ 704,946	$ 370,828	$ (290,489)	$ 785,285
Liabilities:				
Deposits payable	$ 704,946	$ 603,703	$ (523,364)	$ 785,285
Total Liabilities	$ 704,946	$ 603,703	$ (523,364)	$ 785,285
Diablo Estates Benefit Assessment District				
Assets:				
Cash and investments	$ 151,228	$ 92,043	$ (61,032)	$ 182,239
Total Assets	$ 151,228	$ 92,043	$ (61,032)	$ 182,239
Liabilities:				
Accounts payable	$ 6,577	$ 58,652	$ (58,997)	$ 6,232
Other liabilities	144,651	92,556	(61,200)	176,007
Total Liabilities	$ 151,228	$ 151,208	$ (120,197)	$ 182,239

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Changes in Assets and Liabilities - Agency Funds
For the year ended June 30, 2020

	Balance July 1, 2019	Additions	Deductions	Balance June 30, 2020
High Street Bridge Benefit Assessment District				
Assets:				
Cash and investments	$ 6,461	$ 2,862	$ (2,269)	$ 7,054
Assessments receivable	10,656	-	(814)	9,842
Total Assets	$ 17,117	$ 2,862	$ (3,083)	$ 16,896
Liabilities:				
Accounts payable	$ 6,461	$ 2,862	$ (2,269)	$ 7,054
Notes payable	10,656	-	(814)	9,842
Total Liabilities	$ 17,117	$ 2,862	$ (3,083)	$ 16,896
Lydia Lane Sewer Benefit Assessment District				
Assets:				
Cash and investments	$ 67,269	$ 19,425	$ (17,684)	$ 69,010
Cash with fiscal agent	13,125	4,537	(4,770)	12,892
Assessments receivable	153,325	-	(5,000)	148,325
Total Assets	$ 233,719	$ 23,962	$ (27,454)	$ 230,227
Liabilities:				
Other liabilities	$ 80,394	$ 31,750	$ (30,242)	$ 81,902
Due to bondholders	153,325	-	(5,000)	148,325
Total Liabilities	$ 233,719	$ 31,750	$ (35,242)	$ 230,227
Middle School Community Facilities District				
Assets:				
Cash and investments	$ 290,248	$ 819,684	$ (839,464)	$ 270,468
Assessments receivable	1,696,000	-	(383,000)	1,313,000
Total Assets	$ 1,986,248	$ 819,684	$ (1,222,464)	$ 1,583,468
Liabilities:				
Accounts payable	$ -	$ 54,498	$ (54,430)	$ 68
Other liabilities	290,248	436,684	(456,532)	270,400
Due to bondholders	1,696,000	-	(383,000)	1,313,000
Total Liabilities	$ 1,986,248	$ 491,182	$ (893,962)	$ 1,583,468
Oak Street Bridge Benefit Assessment District				
Assets:				
Cash and investments	$ 13,977	$ 6,869	$ (257)	$ 20,589
Assessments receivable	-	-	-	-
Total Assets	$ 13,977	$ 6,869	$ (257)	$ 20,589
Liabilities:				
Other liabilities	$ 13,977	$ 6,869	$ (257)	$ 20,589
Notes payable	-	-	-	-
Total Liabilities	$ 13,977	$ 6,869	$ (257)	$ 20,589

DRAFT 01.28.21 12PM

City of Clayton
Supplementary Information
Combining Statement of Changes in Assets and Liabilities - Agency Funds
For the year ended June 30, 2020

	Balance July 1, 2019	Additions	Deductions	Balance June 30, 2020
Oak Street Sewer Benefit Assessment District				
Assets:				
Cash and investments	$ 2,282	$ 19,859	$ (19,935)	$ 2,206
Assessments receivable	69,091	-	(8,182)	60,909
Total Assets	$ 71,373	$ 19,859	$ (28,117)	$ 63,115
Liabilities:				
Other liabilities	2,282	$ 19,859	$ (19,935)	2,206
Notes payable	69,091	-	(8,182)	60,909
Total Liabilities	$ 71,373	$ 19,859	$ (28,117)	$ 63,115
Total - All Agency Funds				
Assets:				
Cash and investments	$ 1,920,080	$ 2,085,820	$ (1,971,897)	$ 2,034,003
Cash with fiscal agent	383,727	405,803	(421,366)	368,164
Assessments receivable	1,929,072	-	(396,996)	1,532,076
Accounts receivable	36,760	-	(8,300)	28,460
Prepaid expenses	-	2,541	-	2,541
Investments in bonds	1,696,000	-	(383,000)	1,313,000
Total Assets	$ 5,965,639	$ 2,494,164	$ (3,181,559)	$ 5,278,244
Liabilities:				
Accounts payable	$ 13,038	$ 483,445	$ (480,588)	$ 15,895
Other liabilities	1,768,583	1,050,776	(1,064,371)	1,754,988
Deposits payable	704,946	603,703	(523,364)	785,285
Notes payable	79,747	-	(8,996)	70,751
Due to bondholders	3,399,325	-	(748,000)	2,651,325
Total Liabilities	$ 5,965,639	$ 2,137,924	$ (2,825,319)	$ 5,278,244

DRAFT 01.28.21 12PM

STATISTICAL SECTION

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

STATISTICAL SECTION
TABLE OF CONTENTS

This part of the City's comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information says about the City.

	Page
Financial Trends	126-133
These schedules contain trend information to help the reader understand how the City's financial performance and well-being have changed over time.	
Revenue Capacity	134-141
These schedules contain information to help the reader assess the City's most significant local revenue sources.	
Debt Capacity	142-146
These schedules present information to help the reader assess the affordability of the City's current levels of outstanding debt and the City's ability to issue additional debt in the future.	
Demographic and Economic Information	147
These schedules offer demographic and economic indicators to help the reader understand the environment within which the City's financial activities take place.	
Operating Information	148-154
These schedules contain service and infrastructure data to help the reader understand how the information in the City's financial report relates to the services the City provides and the activities it performs.	

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Net Position by Component - Last Ten Fiscal Years
(Accrual Basis of Accounting)

	Fiscal Year Ending June 30		
	2011	2012	2013
Governmental activities:			
Net investment in capital assets	$ 20,953,220	$ 28,330,852	$ 29,988,389
Restricted	6,240,370	6,775,688	5,071,942
Unrestricted	14,935,201	5,034,855	4,829,960
Total governmental activities net position	42,128,791	40,141,395	39,890,291
Business-type activities:			
Net investment in capital assets	1,394,950	1,358,883	1,322,815
Restricted	-	-	-
Unrestricted	(111,680)	(121,193)	(130,382)
Total business-type activities net position	1,283,270	1,237,690	1,192,433
Primary government:			
Net investment in capital assets	22,348,170	29,689,735	31,311,204
Restricted	6,240,370	6,775,688	5,071,942
Unrestricted	14,823,521	4,913,662	4,699,578
Total primary government net position	$ 43,412,061	$ 41,379,085	$ 41,082,724

Source: City of Clayton Finance Department.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Net Position by Component - Last Ten Fiscal Years
(Accrual Basis of Accounting)

Fiscal Year Ending June 30							
2014	2015	2016	2017	2018	2019	2020
$ 29,344,437	$ 28,653,515	$ 28,929,140	$ 29,349,667	$ 28,976,510	$ 29,790,706	$ 29,780,115
3,470,831	2,024,193	7,783,815	7,731,727	12,059,042	11,915,594	12,046,964
6,306,416	4,781,508	7,028,670	7,835,030	3,836,715	3,009,835	3,433,238
39,121,684	35,459,216	43,741,625	44,916,424	44,872,267	44,716,135	45,260,317
1,286,748	1,250,681	1,221,999	1,184,742	1,147,485	1,110,485	1,073,743
-	-	-	-	-	-	-
(49,038)	(44,572)	(56,305)	(64,190)	(75,944)	(72,753)	(74,819)
1,237,710	1,206,109	1,165,694	1,120,552	1,071,541	1,037,732	998,924
30,631,185	29,904,196	30,151,139	30,534,409	30,123,995	30,901,191	30,853,858
3,470,831	2,024,193	7,783,815	7,731,727	12,059,042	11,915,594	12,046,964
6,257,378	4,736,936	6,972,365	7,770,840	3,760,771	2,937,082	3,358,419
$ 40,359,394	$ 36,665,325	$ 44,907,319	$ 46,036,976	$ 45,943,808	$ 45,753,867	$ 46,259,241

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Changes in Net Position - Last Ten Fiscal Years
(Accrual Basis of Accounting)

	Fiscal Year		
	2011	2012	2013
Expenses			
Governmental activities:			
General government	$ 1,583,367	$ 1,201,323	$ 1,186,567
Public works	2,834,516	1,104,503	1,346,320
Parks and recreation services	884,095	1,066,617	1,100,584
Community and economic development	2,476,713	530,687	446,259
Public safety	1,841,028	1,972,460	1,925,266
Interest and fiscal charges	414,113	129,047	-
Total governmental activities expenses	10,033,832	6,004,637	6,004,996
Business-type activities:			
Community gym	93,398	18	-
Endeavor Hall	66,110	61,497	60,117
Total business-type activities expenses	159,508	61,515	60,117
Total primary government expenses	$ 10,193,340	$ 6,066,152	$ 6,065,113
Program revenues			
Governmental activities:			
Charges for services:			
General government	$ 233,675	$ 421,866	$ 352,124
Public works	141,665	148,828	315,230
Parks and recreation services	141,891	183,031	-
Community and economic development	299,103	319,268	137,795
Public safety	24,064	64,364	36,899
Operating grants and contributions	494,148	884,026	587,384
Capital grants and contributions	-	-	-
Total governmental activities program revenues	1,334,546	2,021,383	1,429,432
Business-type activities:			
Charges for services:			
Community gym	2,511	-	-
Endeavor hall	23,691	16,294	14,860
Operating grants and contributions	-	-	-
Total business-type program revenues	26,202	16,294	14,860
Net revenues (expenses)			
Governmental activities	$ (8,699,286)	$ (3,983,254)	$ (4,575,564)
Business-type activities	(133,306)	(45,221)	(45,257)
Total primary government net expense	$ (8,832,592)	$ (4,028,475)	$ (4,620,821)
General revenues and other changes in net position			
Governmental activities:			
Taxes:			
Property taxes	$ 6,698,149	$ 4,488,417	$ 1,691,803
Special parcel taxes	1,045,977	1,071,632	1,093,213
Sales and use taxes	303,880	307,887	353,525
Business license taxes	-	-	-
Other taxes	803,498	792,726	802,651
Franchise fees	-	-	-
Payments in lieu of taxes	-	-	-
Investment income	335,205	242,539	80,622
Miscellaneous	477,402	1,249,897	139,161
Gain/(loss) on sale of assets	6,700	(116,339)	(7,817)
Transfers	-	250,000	250,456
Total governmental activities	9,670,811	8,286,759	4,403,614
Business type activities:			
Investment income/(loss)	276	(359)	-
Miscellaneous	60	-	-
Transfers	-	-	-
Total business-type activities	336	(359)	-
Extraordinary and Special Items			
Governmental activities:			
Extraordinary gain/(loss)	-	(6,100,352)	-
Business-type activities:			
Special item gain/(loss)	-	-	-
Total primary government changes in net position			
Governmental activities	971,525	(1,796,847)	(171,950)
Business-type activities	(132,970)	(45,580)	(45,257)
Total primary government	$ 838,555	$ (1,842,427)	$ (217,207)

Source: City of Clayton Finance Department.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Changes in Net Position - Last Ten Fiscal Years
(Accrual Basis of Accounting)

Fiscal Year							
2014	2015	2016	2017	2018	2019	2020
$ 1,249,238	$ 1,119,567	$ 1,051,461	$ 1,174,069	$ 1,305,562	$ 1,457,326	$ 2,781,523
2,118,015	2,139,918	1,975,653	2,221,835	2,509,147	2,825,969	1,988,766
352,498	339,894	583,120	676,790	667,687	718,267	452,535
410,413	405,941	362,248	287,775	329,418	367,682	296,372
2,016,145	2,006,052	2,060,621	2,075,082	2,538,912	2,536,880	2,521,690
-	-	-	-	-	-	-
6,146,309	6,011,372	6,033,103	6,435,551	7,350,726	7,906,124	8,040,886
-	-	-	-	-	-	-
65,351	66,606	67,668	67,393	76,901	58,455	63,631
65,351	66,606	67,668	67,393	76,901	58,455	63,631
$ 6,211,660	$ 6,077,978	$ 6,100,771	$ 6,502,944	$ 7,427,627	$ 7,964,579	$ 8,104,517
$ 567,663	$ 643,070	$ 355,391	$ 349,220	$ 397,668	$ 397,436	$ 438,906
296,974	418,498	321,544	324,308	355,625	356,347	338,877
608	14,337	73,501	70,394	66,868	71,681	43,635
54,013	25,990	100,612	113,336	127,487	96,596	113,600
14,631	13,862	49,326	52,497	44,545	41,195	65,674
683,492	157,397	836,833	813,168	900,239	825,018	1,024,732
-	-	22,200	885,398	526,452	570,049	559,220
1,617,381	1,273,154	1,759,407	2,608,321	2,418,884	2,358,322	2,584,644
-	-	-	-	-	-	-
19,545	25,818	27,253	22,251	27,890	24,642	24,702
-	-	-	-	-	-	-
19,545	25,818	27,253	22,251	27,890	24,642	24,702
$ (4,528,928)	$ (4,738,218)	$ (4,273,696)	$ (3,827,230)	$ (4,931,842)	$ (5,547,802)	$ (5,456,242)
(45,806)	(40,788)	(40,415)	(45,142)	(49,011)	(33,813)	(38,929)
$ (4,574,734)	$ (4,779,006)	$ (4,314,111)	$ (3,872,372)	$ (4,980,853)	$ (5,581,615)	$ (5,495,171)
$ 1,862,734	$ 2,302,278	$ 2,256,780	$ 2,339,221	$ 2,345,067	$ 2,463,898	$ 2,587,812
1,122,349	1,155,141	1,185,651	1,220,427	1,254,911	1,256,011	1,295,034
370,330	397,544	372,705	455,387	436,560	483,741	512,868
-	-	133,943	135,866	154,397	175,153	140,620
865,752	1,339,537	-	-	-	-	-
-	-	516,607	541,138	547,765	523,129	565,893
-	-	154,852	157,949	161,108	164,331	167,677
64,319	82,909	295,904	119,201	287,595	255,272	684,244
175,082	91,230	58,694	31,216	23,118	39,211	40,516
-	624	792	1,624	(893)	30,924	5,760
(688,709)	88,793	-	-	-	-	-
3,771,857	5,458,056	4,975,928	5,002,029	5,209,628	5,391,670	6,000,424
393	175	-	-	-	4	121
-	4,316	-	-	-	-	-
-	(88,793)	-	-	-	-	-
393	(84,302)	-	-	-	4	121
-	(200,000)	(230,786)	-	-	-	-
-	93,489	-	-	-	-	-
(757,071)	519,838	471,446	1,174,799	277,786	(156,132)	544,182
(45,413)	(31,601)	(40,415)	(45,142)	(49,011)	(33,809)	(38,808)
$ (802,484)	$ 488,237	$ 431,031	$ 1,129,657	$ 228,775	$ (189,941)	$ 505,374

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Fund Balances of Governmental Funds - Last Ten Fiscal Years
(Modified Accrual Basis of Accounting)

	Fiscal Year Ending June 30		
	2011*	2012**	2013
General fund:			
Reserved	$ -	$ -	$ -
Unreserved	-	-	-
Nonspendable	-	-	-
Restricted	-	-	-
Committed	-	442,546	-
Assigned	46,704	-	182,671
Unassigned	5,229,784	4,913,879	5,199,914
Total general fund	5,276,488	5,356,425	5,382,585
All other governmental funds:			
Reserved	-	-	-
Unreserved	-	-	-
Nonspendable	-	-	-
Restricted	-	-	-
Committed	-	6,333,142	5,071,942
Assigned	12,489,782	-	-
Unassigned	-	-	(425,380)
Total other governmental funds	12,489,782	6,333,142	4,646,562
Total governmental funds	$ 17,766,270	$ 11,689,567	$ 10,029,147

Source: City of Clayton Finance Department.

* The City implemented GASB 54 for the fiscal year ended June 30, 2011.

** The City of Clayton Redevelopment Agency was dissolved in the fiscal year ended June 30, 2012 in accordance with California state law (ABx1 26).

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Fund Balances of Governmental Funds - Last Ten Fiscal Years
(Modified Accrual Basis of Accounting)

Fiscal Year Ending June 30							
2014	2015	2016	2017	2018	2019	2020
$ -	$ -	$ -	$ -	$ -	$ -	$ -
-	-	-	-	-	-	-
1,242,346	1,029,377	308,064	72,518	81,790	320,232	100,163
-	-	-	-	-	-	-
-	-	-	-	-	-	-
34,542	-	278,853	415,239	281,930	102,228	409,482
3,871,849	4,509,255	5,031,142	5,429,524	5,302,751	5,337,685	5,654,925
5,148,737	5,538,632	5,618,059	5,917,281	5,666,471	5,760,145	6,164,570
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	3,633,951	3,696,238	-	-	-
1,399,064	1,303,081	2,150,476	2,122,471	6,293,306	6,403,413	6,452,671
829,421	721,112	667,134	494,241	571,915	647,611	669,841
2,354,314	3,309,135	2,684,533	3,026,942	3,542,680	2,744,642	3,167,804
(2,550)	(2,550)	(2,550)	(2,550)	(2,550)	(223,171)	(23,566)
4,580,249	5,330,778	9,133,544	9,337,342	10,405,351	9,572,495	10,266,750
$ 9,728,986	$ 10,869,410	$ 14,751,603	$ 15,254,623	$ 16,071,822	$ 15,332,640	$ 16,431,320

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Changes in Fund Balances of Governmental Funds - Last Ten Fiscal Years
(Modified Accrual Basis of Accounting)

	Fiscal Year		
	2011	2012	2013
Revenues			
Property taxes	$ 6,737,779	$ 4,488,417	$ 1,691,803
Program income	237,572	72,870	10,546
Special parcel taxes and assessments	1,186,092	1,220,460	1,232,280
Sales and use taxes	252,404	307,887	353,525
Business license taxes and fees	-	-	-
Permits, licenses and fees	279,404	534,446	402,661
Fines, forfeitures and penalties	55,919	114,313	93,328
Intergovernmental	1,143,631	1,986,471	836,041
Motor vehicle in-lieu fees	50,312	11,074	-
Other in-lieu fees	140,255	143,060	145,921
Franchise fees	403,815	454,871	479,765
Service charges	71,878	131,053	125,387
Use of money and property	346,346	241,199	80,579
Other revenue	111,093	27,954	138,528
Total revenues	11,016,500	9,734,075	5,590,364
Expenditures			
Current			
General government	1,075,709	1,028,719	957,680
Public works	1,352,445	1,251,908	1,502,599
Parks and recreation services	228,124	345,345	356,445
Community and economic development	2,653,759	530,687	446,259
Public safety	1,774,365	1,916,002	1,867,432
Capital outlay	1,802,315	1,531,977	2,370,825
Debt service			
Principal	2,195,000	610,000	-
Interest and fiscal charges	435,005	323,451	-
Total expenditures	11,516,722	7,538,089	7,501,240
Revenues over (under) expenditures	(500,222)	2,195,986	(1,910,876)
Other financing sources (uses)			
Unrealized gains (losses)	(259,502)	-	-
Transfers in	3,742,690	2,038,931	2,221,820
Transfers out	(3,742,690)	(1,788,931)	(1,971,364)
Total other financing sources (uses)	(259,502)	250,000	250,456
Revenues and other financing sources over (under) expenditures and other financing uses	(759,724)	2,445,986	(1,660,420)
Special and extraordinary items			
Special item gain (loss)	-	53,930	-
Extraordinary gain (loss)	-	(8,299,982)	-
Total special and extraordinary items	-	(8,246,052)	-
Change in fund balances	$ (759,724)	$ (5,800,066)	$ (1,660,420)
Ratio of Total Debt Service Expenditures to Noncapital Expenditures	0.37	0.18	0.00

Source: City of Clayton Finance Department

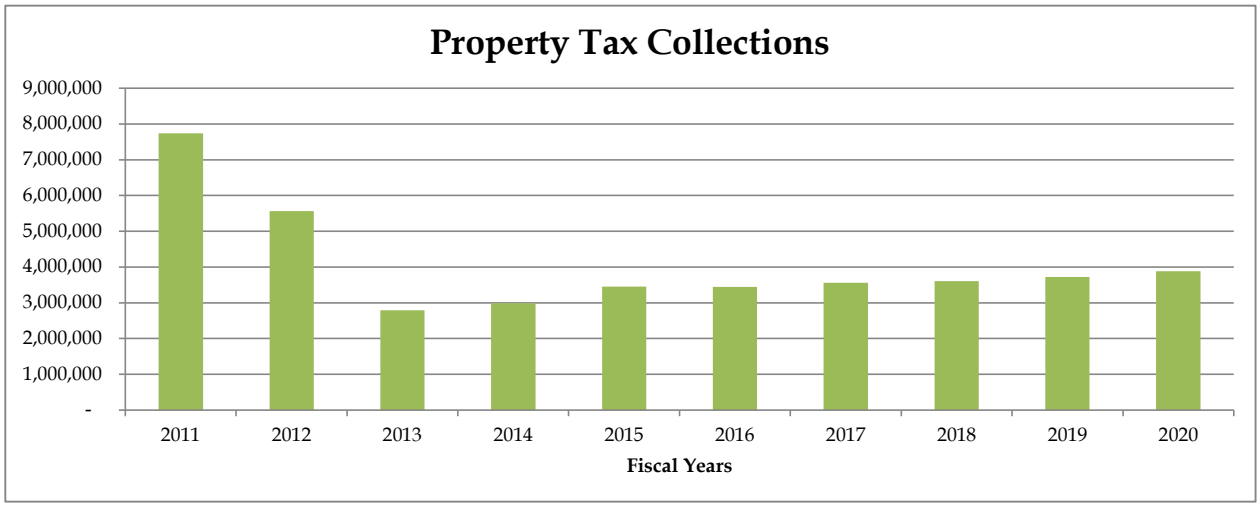
DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Changes in Fund Balances of Governmental Funds - Last Ten Fiscal Years
(Modified Accrual Basis of Accounting)

Fiscal Year							
2014	2015	2016	2017	2018	2019	2020
$ 1,862,734	$ 2,302,278	$ 2,256,780	$ 2,339,221	$ 2,345,067	$ 2,463,898	$ 2,587,812
10,668	10,063	81,400	86,400	91,400	146,400	101,400
1,260,823	1,287,748	1,437,156	1,465,905	1,522,187	1,546,399	1,582,233
370,330	397,544	372,705	455,387	436,560	483,741	512,868
-	-	133,943	135,866	154,397	175,153	140,620
290,598	306,545	194,261	209,026	356,052	212,242	218,119
78,173	72,635	84,270	92,662	110,787	82,375	93,556
967,729	1,066,757	964,539	1,706,688	1,178,659	1,312,528	1,563,712
4,703	4,590	4,554	-	-	-	-
148,839	151,816	154,852	157,949	161,108	164,331	167,677
504,867	501,597	516,607	541,138	547,765	523,129	565,893
338,626	366,080	342,308	311,796	329,164	325,078	324,893
62,642	81,408	290,966	118,210	274,244	385,696	453,793
175,538	91,131	48,517	40,186	23,168	35,723	33,294
6,076,270	6,640,192	6,882,858	7,660,434	7,530,558	7,856,693	8,345,870
1,118,026	1,018,852	1,068,970	1,194,606	1,183,609	1,317,973	1,317,420
1,293,402	1,342,373	1,237,683	1,519,992	1,592,903	1,621,629	1,853,605
352,498	349,862	375,554	458,294	433,764	477,266	452,535
410,413	410,972	379,162	309,048	317,284	352,163	296,255
1,950,034	2,005,607	2,281,621	2,265,845	2,363,298	2,365,339	2,463,330
393,505	260,895	1,275,563	1,409,599	654,531	2,146,778	1,075,806
-	-	-	-	-	-	-
-	-	-	-	-	-	-
5,517,878	5,388,561	6,618,553	7,157,384	6,545,389	8,281,148	7,458,951
558,392	1,251,631	264,305	503,050	985,169	(424,455)	886,919
-	-	-	-	-	(214,727)	211,761
524,187	600,458	1,026,538	497,960	481,974	1,261,171	157,814
(603,341)	(511,665)	(1,177,781)	(497,960)	(649,974)	(1,361,171)	(157,814)
(79,154)	88,793	(151,243)	-	(168,000)	(314,727)	211,761
479,238	1,340,424	113,062	503,050	817,169	(739,182)	1,098,680
(90,690)		-	-	-	-	-
-	(200,000)	(230,786)	-	-	-	-
(90,690)	(200,000)	(230,786)	-	-	-	-
$ 388,548	$ 1,140,424	$ (117,724)	$ 503,050	$ 817,169	$ (739,182)	$ 1,098,680
0.00	0.00	0.00	0.00	0.00	0.00	0.00

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Property Tax Levies and Collections
Last Ten Fiscal Years



Fiscal Year Ended June 30	Total Tax Levy for Fiscal Year[1]	Collected within the Fiscal Year of the Levy		Total Collections to Date	
		Amount	Percentage of Levy	Amount	Percentage of Levy
2011	7,744,126	7,744,126	100%	7,744,126	100%
2012	5,560,049	5,560,049	100%	5,560,049	100%
2013	2,785,016	2,785,016	100%	2,785,016	100%
2014	2,985,083	2,985,083	100%	2,985,083	100%
2015	3,457,419	3,457,419	100%	3,457,419	100%
2016	3,442,431	3,442,431	100%	3,442,431	100%
2017	3,559,648	3,559,648	100%	3,559,648	100%
2018	3,599,978	3,599,978	100%	3,599,978	100%
2019	3,719,909	3,719,909	100%	3,719,909	100%
2020	3,882,846	3,882,846	100%	3,882,846	100%

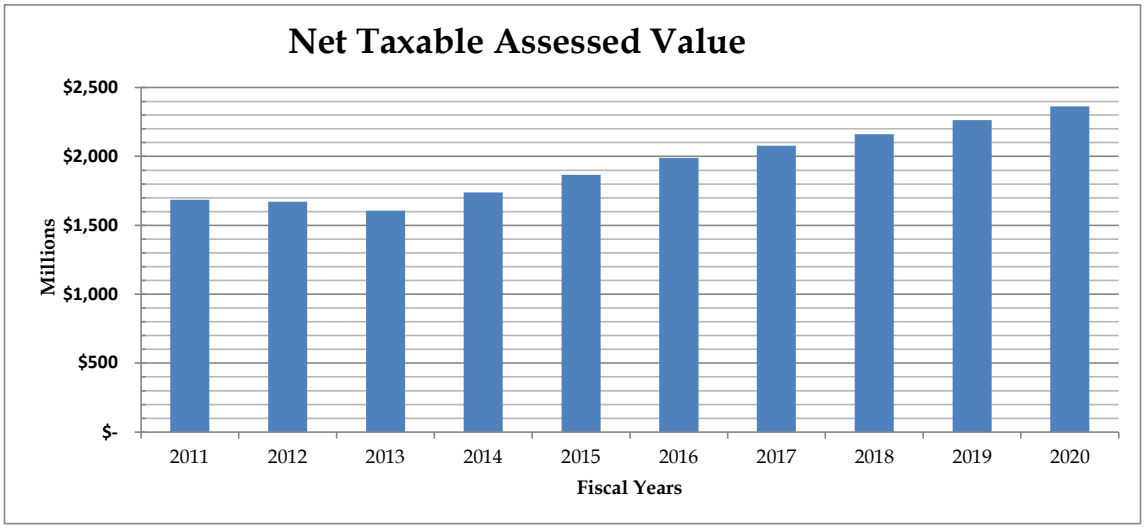
Source: City of Clayton Finance Department

[1] Property tax levies above include secured and unsecured general ad valorem property taxes, restricted local special parcel taxes, and property taxes pertaining to the Redevelopment Property Tax Trust Fund.

[2] The City is enrolled in the "Teeter" Plan, where the County remits the entire amount levied and handles all delinquencies, retaining the interest and penalties.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Assessed Value and Estimated Actual Value of Taxable Property
Last Ten Fiscal Years



Fiscal Year Ended June 30	Secured	Unsecured	SBE Nonunitary	Net Total Assessed Valuation	Total Direct Tax Rate[2]
2011	1,669,680,614	14,364,972	-	1,684,045,586	6.63%
2012	1,659,424,975	13,098,203	-	1,672,523,178	6.63%
2013	1,592,441,490	12,107,626	-	1,604,549,116	6.63%
2014	1,724,741,279	12,046,811	-	1,736,788,090	6.63%
2015	1,855,952,809	10,423,772	-	1,866,376,581	6.63%
2016	1,966,021,862	24,268,730	-	1,990,290,592	6.63%
2017	2,052,672,378	24,551,781	-	2,077,224,159	6.63%
2018	2,138,664,468	22,857,474	-	2,161,521,942	6.63%
2019	2,238,046,407	24,573,625	-	2,262,620,032	6.63%
2020	2,335,781,999	28,167,199	-	2,363,949,198	6.63%

Source: HdL, Coren & Cone, Contra Costa County Assessor Tax Rolls

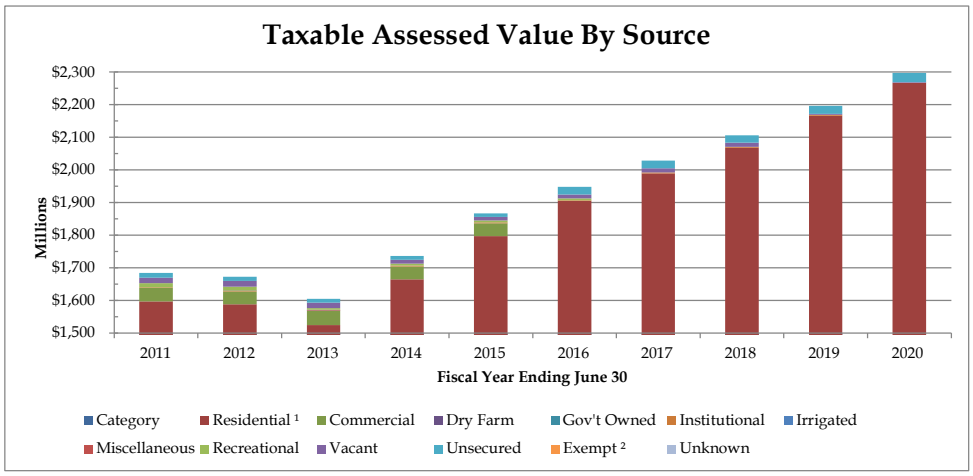
[1] In 1978 the voters of the State of California passed Proposition 13 which limited property taxes to a maximum rate of 1.0% based up on the assessed value of the property being taxed. Each year, the assessed value of property may be increased by an "inflation factor" (limited to the maximum increase of 2.0%). With few exceptions, property is only reassessed at the time that it is sold to a new owner. At that point, the new assessed value is reassessed at the purchase price of the property sold. The assessed valuation data shown above represents the only data currently available with respect to the actual market value of taxable property and is subject to the limitations described above.

[2] City's share of 1.0% basic levy is based on the City's share of the general fund tax rate area with the largest net taxable value within the City. Tax Rate Area 13-015 is represented here for this report.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Taxable Assessed Value By Source
Last Ten Fiscal Years

Category	Fiscal Year Ending June 30 2011	2012	2013	2014
Residential [1]	$ 1,597,474,855	$ 1,587,781,869	$ 1,525,145,282	$ 1,664,638,727
Commercial	40,404,166	39,281,102	42,498,296	39,271,189
Dry Farm				
Gov't Owned				
Institutional	2,379,553	2,412,183	2,460,428	2,509,634
Irrigated		124,224	126,707	129,240
Miscellaneous	188,471	477,430	764,183	197,555
Recreational	12,208,926	12,300,848	5,364,139	5,364,585
Vacant	17,024,643	17,047,319	16,082,455	12,630,349
Unsecured	14,364,972	13,098,203	12,107,626	12,046,811
Exempt [2]	(24,311,500)	(24,066,321)	(24,547,599)	(25,038,500)
Unknown	-	-	-	-
Totals	$ 1,684,045,586	$ 1,672,523,178	$ 1,604,549,116	$ 1,736,788,090
Total Direct Rate	0.35104	0.34460	0.34145	0.06992



Source: HdL, Coren & Cone, Contra Costa County Assessor Tax Rolls

[1] In 1978 the voters of the State of California passed Proposition 13 which limited property taxes to a maximum rate of 1.0% based up on the assessed value of the property being taxed. Each year, the assessed value of property may be increased by an "inflation factor" (limited to the maximum increase of 2.0%). With few exceptions, property is only reassessed at the time that it is sold to a new owner. At that point, the new assessed value is reassessed at the purchase price of the property sold. The assessed valuation data shown above represents the only data currently available with respect to the actual market value of taxable property and is subject to the limitations described above.

[2] Exempt values are not included in total.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Taxable Assessed Value By Source
Last Ten Fiscal Years

	Fiscal Year Ending June 30					
	2015	**2016**	**2017**	**2018**	**2019**	**2020**
	$ 1,797,596,765	$ 1,904,368,929	$ 1,988,952,192	$ 2,067,562,369	$ 2,165,479,800	$ 2,266,477,116
	38,942,508	41,544,210	41,858,935	47,590,673	47,779,713	48,208,120
					11,134,894	11,399,590
	2,521,025	2,571,392	2,610,603	2,662,812	3,253,330	2,729,354
	198,449	202,412	205,496	209,603	129,549	140,719
	5,364,688	5,365,145	6,302,648	7,403,121	7,402,753	4,957,742
	11,329,374	11,969,774	12,742,504	13,235,890	2,866,368	1,869,358
	10,423,772	24,268,730	24,551,781	22,857,474	24,573,625	28,167,199
	(26,156,667)	(26,679,230)	(27,086,036)	(27,627,706)	(28,243,119)	(28,807,933)
	-	-	-	-	-	-
	$ 1,866,376,581	$ 1,990,290,592	$ 2,077,224,159	$ 2,161,521,942	$ 2,262,620,032	$ 2,363,949,198
	0.06587	0.06627	0.06642	0.06650	0.06667	0.06684

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Property Tax Rates - Direct and Overlapping Governments
Last Ten Fiscal Years (Rate per $100 of Assessed Value)

	Fiscal Year Ending June 30		
	2011	2012	2013
City Direct Rates:			
City of Clayton General Fund[1]	0.06628	0.06628	0.06628
Clayton Light Maintenance District No. 1[2]	0.01039	0.01039	0.01039
Direct and Overlapping Rates:			
Basic Levy[3]	1.00000	1.00000	1.00000
Bay Area Rapid Transit (BART) Bond	0.00310	0.00410	0.00430
Contra Costa Community College Bond	0.01330	0.01440	0.00870
Contra Costa Water Land Levy	0.00490	0.00510	0.00450
East Bay Regional Park Bond	0.00840	0.00710	0.00510
Mt. Diablo School Bond	0.06000	0.06120	0.08710
Total Direct and Overlapping Rates	1.08970	1.09190	1.10970
City's Share of 1% Levy Per Prop 13 [3]	0.06628	0.06628	0.06628
Redevelopment Rate [4]	1.01330	1.01220	-
Total Direct Rate [5]	0.35104	0.34460	0.34145

Source: HdL, Coren & Cone, Contra Costa County Assessor 2010-11 to 2019-20 tax rate table.

[1] City's share of 1.0% basic levy is based on the City's share of the general fund tax rate area with the largest net taxable value within the City. Tax Rate Area 13-015 is represented here for this report.

[2] City's share of 1.0% basic levy is based on the City's share of the Light Maintenance District No. 1 tax rate area with the largest net taxable value within the City. Tax Rate Area 13-002 is represented here for this report.

[3] In 1978, California voters passed Proposition 13 which caps the property tax rate at a 1.00% fixed amount. This 1.00% is shared by all taxing agencies for which the subject property resides within. In addition to the 1.00% fixed amount, property owners are charged taxes as a percentage of assessed property values for the payment of voter approved bonds from various agencies.

[4] Redevelopment rate is based on the largest RDA tax rate area and only includes rate(s) from indebtedness adopted prior to 1989 per California State statute. RDA direct and overlapping rates are applied only to the incremental property values. The approval of ABX1 26 eliminated Redevelopment from the State of California for the fiscal year 2012-13 and years thereafter.

[5] Total direct rate is the weighted average of all individual direct rates applied to by the government preparing the statistical section information and excludes revenues derived from aircraft. Beginning in 2013-14 the total direct rate no longer includes revenue generated from the former redevelopment tax rate areas. Challenges to recognized enforceable obligations are assumed to have been resolved during 2012-13. For the purposes of this report, residual revenue is assumed to be distributed to the City in the same proportions as general fund revenue.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Property Tax Rates - Direct and Overlapping Governments
Last Ten Fiscal Years (Rate per $100 of Assessed Value)

Fiscal Year Ending June 30						
2014	2015	2016	2017	2018	2019	2020
0.06628	0.06628	0.06628	0.06628	0.06628	0.06628	0.06628
0.01039	0.01039	0.01039	0.01039	0.01039	0.01039	0.01039
1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
0.00750	0.00450	0.00260	0.00800	0.00840	0.00700	0.01200
0.01330	0.02520	0.02200	0.01200	0.01140	0.01100	0.01880
0.00420	0.00370	0.00350	0.00320	0.00300	0.00280	0.00260
0.00780	0.00850	0.00670	0.00320	0.00210	0.00210	0.00940
0.07400	0.08530	0.08120	0.07640	0.07900	0.09250	0.09080
1.10680	1.12720	1.11600	1.10280	1.10390	1.11540	1.13360
0.06628	0.06628	0.06628	0.06628	0.06628	0.06628	0.06628
-	-	-	-	-	-	-
0.06992	0.06587	0.06627	0.06642	0.06650	0.06667	0.06684

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Principal Property Tax Payers
Current Year and Nine Years Ago

Property Owner	Primary Use, Primary Agency	Fiscal Year Ending June 30, 2011 Secured Parcels	Value	% of Net AV
1) NGP Realty Sub	Commercial, Successor Agency	17	$ 12,207,781	0.73%
2) Safeway Stores, Inc [1]	Commercial, Successor Agency	1	10,842,282	0.65%
3) Clayton Station Shopping Center [1]	Commercial, Successor Agency	4	9,162,796	0.55%
4) Albert D. Jr. & Sandra Seeno Trust	Dry Farm, Clayton General Fund	1	7,765,324	0.47%
5) Comcast	Unsecured, Successor Agency	-	-	-
6) Toll California XIX LP	Vacant, Successor Agency	26	4,499,497	0.27%
7) Endashiian LLC	Commercial, Successor Agency	1	4,418,694	0.26%
8) Village Oaks LLC	Commercial, Successor Agency	2	2,674,731	0.16%
9) Ocean West Nevada Corporation	Commercial, Successor Agency	1	2,273,727	0.14%
10) Diamond Terrace Investors	Commercial, Successor Agency	1	2,240,513	0.13%
Top Ten Total		54	$ 56,085,345	3.36%
City Total			$ 1,669,680,614	

Property Owner	Primary Use, Primary Agency	Fiscal Year Ending June 30, 2020 Secured Parcels	Value	% of Net AV
1) Comcast	Unsecured, Clayton General Fund	-	$ -	-
2) Safeway Stores, Inc	Commercial, Successor Agency	1	11,180,964	0.48%
3) Clayton Station Shopping Center	Commercial, Successor Agency	4	10,602,720	0.45%
4) Albert D. Jr. & Sandra Seeno Trust	Dry Farm, Clayton General Fund	1	8,100,000	0.35%
5) Empire Acres LLC	Recreational, Successor Agency	19	4,965,000	0.21%
6) Elaine HOM	Commercial, Successor Agency	1	4,536,144	0.19%
7) Oak LLC	Commercial, Successor Agency	1	4,151,000	0.18%
8) Endashiian LLC	Commercial, Successor Agency	1	3,751,825	0.16%
9) William Patrick Jordan Trust	Residential, Successor Agency	4	3,114,221	0.13%
10) Village Oaks LLC	Commercial, Successor Agency	2	3,095,059	0.13%
Top Ten Total		34	$ 53,496,933	2.28%
City Total			$ 2,335,781,999	

Source: HdL, Coren & Cone, Contra Costa County Assessor 2010-11 & 2019-20 Combined Tax Rolls & the SBE Non-Unitary Tax Roll

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Principal Property Tax Payers
Current Year and Nine Years Ago

Fiscal Year Ending June 30, 2011

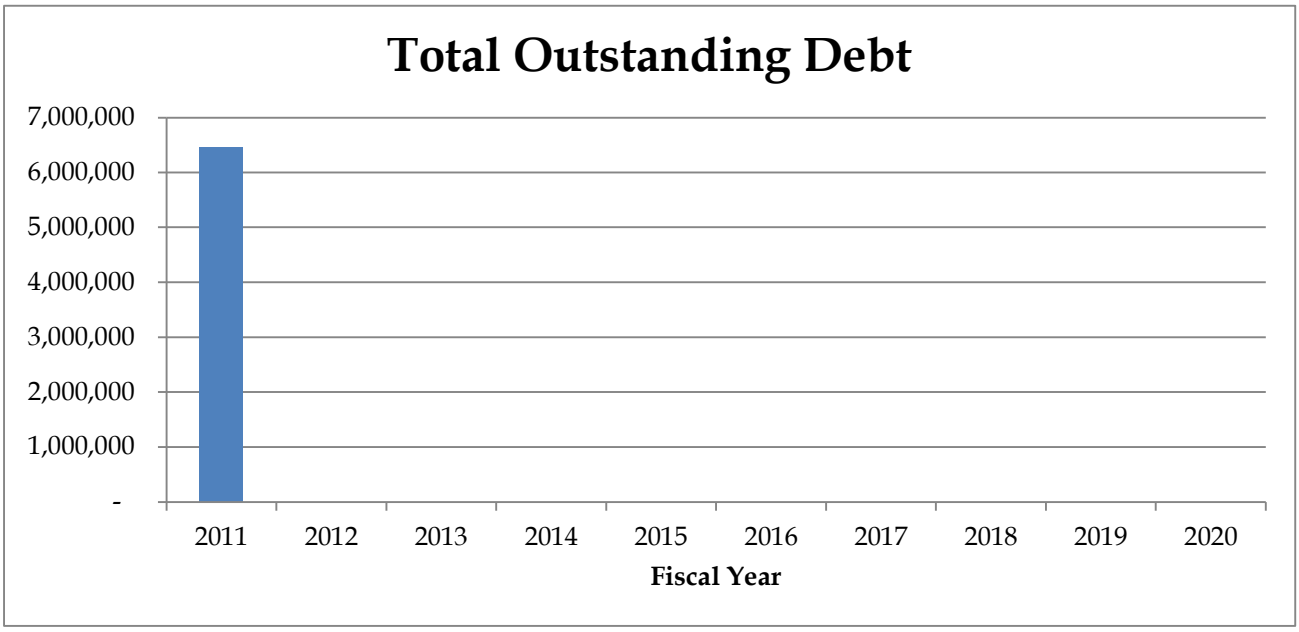
	Unsecured		Combined	
Parcels	Value	% of Net AV	Value	% of Net AV
-	$ -	-	$ 12,207,781	0.72%
-	-	-	10,842,282	0.64%
-	-	-	9,162,796	0.54%
-	-	-	7,765,324	0.46%
4	6,044,210	42.08%	6,044,210	0.36%
-	-	-	4,499,497	0.27%
-	-	-	4,418,694	0.26%
-	-	-	2,674,731	0.16%
-	-	-	2,273,727	0.14%
-	-	-	2,240,513	0.12%
4	$ 6,044,210	33.77%	$ 62,129,555	3.67%
	$ 14,364,972		$ 1,684,045,586	

Fiscal Year Ending June 30, 2020

	Unsecured		Combined	
Parcels	Value	% of Net AV	Value	% of Net AV
6	$ 20,125,623	71.45%	$ 20,125,623	0.85%
-	-	-	11,180,964	0.47%
-	-	-	10,602,720	0.45%
-	-	-	8,100,000	0.34%
-	-	-	4,965,000	0.21%
-	-	-	4,536,144	0.19%
-	-	-	4,151,000	0.18%
-	-	-	3,751,825	0.16%
-	-	-	3,114,221	0.13%
-	-	-	3,095,059	0.13%
6	$ 20,125,623	71.45%	$ 73,622,556	3.11%
	$ 28,167,199		$ 2,363,949,198	

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Ratios of Debt Outstanding
Last Ten Fiscal Years



Fiscal Year Ended June 30	Tax Allocation Bonds[1]	Percentage of Total Assessed Value	Percent of Personal Income	Per Capita
2010	8,640,000	0.508%	1.503%	795
2011	6,445,000	0.383%	1.113%	588
2012	-	0.000%	0.000%	-
2013	-	0.000%	0.000%	-
2014	-	0.000%	0.000%	-
2015	-	0.000%	0.000%	-
2016	-	0.000%	0.000%	-
2017	-	0.000%	0.000%	-
2018	-	0.000%	0.000%	-
2019	-	0.000%	0.000%	-
2020	-	0.000%	0.000%	-

Source: City of Clayton Finance Department.

[1] The balance of Tax Allocation Bonds was transferred to the Redevelopment Successor Agency as of February 1, 2012.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Computation of Direct and Overlapping Debt
June 30, 2020

Overlapping Debt		Gross Bonded Debt Balance	Percent Applicable to City	Net Bonded Debt
100300	County General	$ 427,843,035	1.095	$ 4,683,314
202000	Contra Costa Fire	40,915,000	2.379	973,282
400800	San Francisco Bay Area Rapid Transit District	342,719,362	1.095	3,751,521
402700	East Bay Regional Park District	66,651,714	1.095	729,592
759500	Mt. Diablo 2002 Bond	260,615,000	5.338	13,911,155
759600	Mt. Diablo 2010 Bond	282,935,218	5.338	15,102,568
759708	Mt. Diablo 2018 Bond	20,000,000	5.338	1,067,564
792100	Contra Costa Community College 2002 Bond	315,283,400	1.098	3,462,983
792200	Contra Costa Community College 2006 Bond	333,576,600	1.098	3,663,911
792300	Contra Costa Community College 2014 Bond	183,790,000	1.098	2,018,697
Total Overlapping Debt				$ 49,364,587

2019-20 Assessed Valuation: $1,586,405,517 after deducting $777,543,681 incremental value.

Debt to Assessed Valuation Ratios:	
Direct Debt	0.00%
Overlapping Debt	3.11%
Total Debt	3.11%

Source: HdL, Coren & Cone, Contra Costa County Assessor & Auditor combined 2019-20 lien date tax rolls.

This report reflects debt which is being repaid through voter-approved property tax indebtedness. It excludes mortgage revenue, tax allocation bonds, interim financing obligations, non-bonded capital lease obligations, and certificates of participation.

Overlapping governments are those that coincide at least in part, with the geographic boundaries of the city. The percentage of overlapping debt applicable is estimated by using taxable assessed values. Applicable percentages were estimated by determining the portion of another governmental unit's taxable assessed value that is within the city's boundaries and dividing it by each unit's total taxable assessed value.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Legal Debt Margin
Last Ten Fiscal Years

	Fiscal Year Ending June 30			
	2011	2012	2013	2014
Assessed valuation	$ 1,659,734,086	$ 1,648,456,857	$ 1,580,001,517	$ 1,711,749,590
Add back exempted real property	24,311,500	24,066,321	24,547,599	25,038,500
Total assessed valuation	$ 1,684,045,586	$ 1,672,523,178	$ 1,604,549,116	$ 1,736,788,090
Debt limit percentage[1]	3.75%	3.75%	3.75%	3.75%
Debt limit	$ 63,151,709	$ 62,719,619	$ 60,170,592	$ 65,129,553
Total net debt applicable to limit	$ -	$ -	$ -	$ -
Legal Debt margin	$ 63,151,709	$ 62,719,619	$ 60,170,592	$ 65,129,553
Total debt applicable to the limit as a percentage of debt limit	0.00%	0.00%	0.00%	0.00%

Source: City of Clayton Finance Department.

[1] The government code of the State of California provides for a legal debt limit of 15% of gross assessed valuation. However, this provision was enacted when assessed valuation was based upon 25% of market value. Effective with the 1981-82 fiscal year, each parcel is now assessed at 100% of market value (as of the most recent change in ownership for that parcel). Although the statutory debt limit has not been amended by the State since this change, the percentages presented in the above computations have been proportionately modified to 3.75% (25% of 15%) for the purpose of this calculation in order to be consistent with the computational effect of the debt limit at the time of the state's establishment of the

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Legal Debt Margin
Last Ten Fiscal Years

Fiscal Year Ending June 30						
2015	2016	2017	2018	2019	2020
$ 1,840,219,914	$ 1,963,611,362	$ 2,050,138,123	$ 2,133,894,236	$ 2,234,376,913	$ 2,335,141,265
26,156,667	26,679,230	27,086,036	27,627,706	28,243,119	28,807,933
$ 1,866,376,581	$ 1,990,290,592	$ 2,077,224,159	$ 2,161,521,942	$ 2,262,620,032	$ 2,363,949,198
3.75%	3.75%	3.75%	3.75%	3.75%	3.75%
$ 69,989,122	$ 74,635,897	$ 77,895,906	$ 81,057,073	$ 84,848,251	$ 88,648,095
$ -	$ -	$ -	$ -	$ -	$ -
$ 69,989,122	$ 74,635,897	$ 77,895,906	$ 81,057,073	$ 84,848,251	$ 88,648,095
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Bonded Debt Pledged Revenue Coverage
Last Ten Fiscal Years

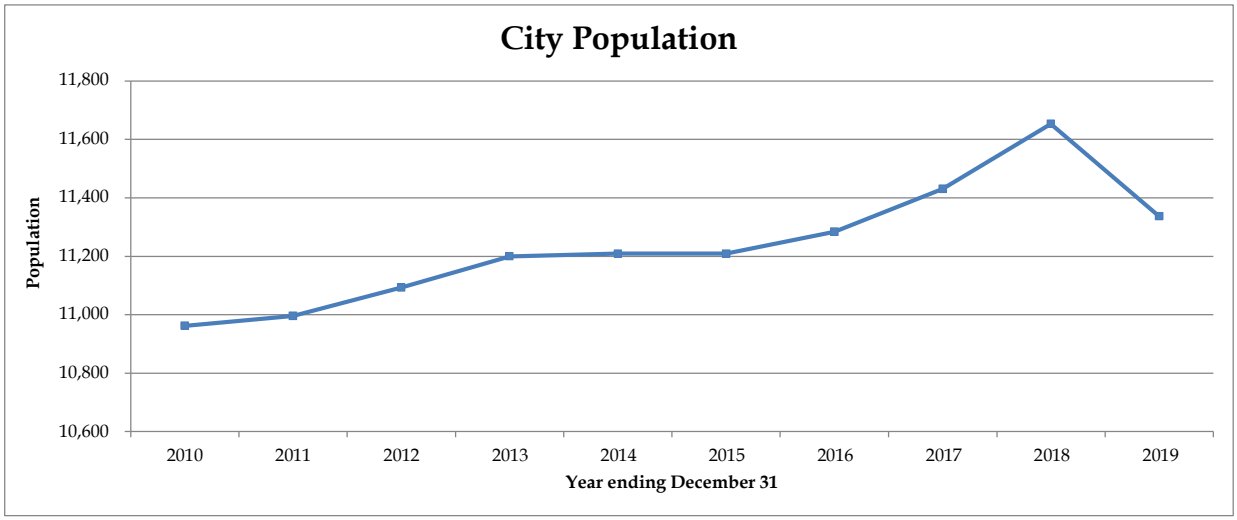
Fiscal Year Ended June 30	Tax Allocation Bonds			
		Debt Service[1]		
	Tax Increment	Principal	Interest	Coverage Ratio
2011	5,238,304	2,195,000	435,005	1.99
2012	5,064,047	610,000	323,451	5.43
2013	-	-	-	-
2014	-	-	-	-
2015	-	-	-	-
2016	-	-	-	-
2017	-	-	-	-
2018	-	-	-	-
2019	-	-	-	-
2020	-	-	-	-

Source: City of Clayton Finance Department.

[1] The balance of the tax allocation bonds was transferred to the Successor Agency as of February 1, 2012. Principal and interest payments are recorded through January 31, 2012.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Demographic and Economic Statistics
Last Ten Fiscal Years



Calendar Year	City Population	Personal Income (in Thousands)	Per Capita Personal Income	Unemployment Rate	Contra Costa County Population[1]	City Population % of County
2009	10,873	574,963	52,880	2.5%	1,060,435	1.03%
2010	10,962	579,254	52,842	2.8%	1,073,055	1.02%
2011	10,996	577,972	52,562	2.5%	1,056,064	1.04%
2012	11,093	562,914	50,745	1.7%	1,065,117	1.04%
2013	11,200	567,885	50,704	1.4%	1,074,702	1.04%
2014	11,209	581,063	51,839	5.4%	1,087,008	1.03%
2015	11,209	620,092	55,320	4.4%	1,102,871	1.02%
2016	11,284	628,783	55,723	3.9%	1,123,429	1.00%
2017	11,431	656,122	57,398	3.1%	1,149,363	0.99%
2018	11,653	694,323	59,583	1.8%	1,155,879	1.01%
2019	11,337	776,778	68,517	1.4%	1,153,561	0.98%

[1] Source: California State Department of Finance Price and Population Information letter to local governments.
Source of other information shown: HdL, Coren & Cone, Demographic and Economic Statistics Report.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Full-Time Equivalent City Employees by Function
Last Ten Fiscal Years

	Fiscal Year Ending June 30			
	2011	2012	2013	2014
Function:				
General Government:				
Management Services	2.00	2.00	2.00	2.00
Finance	2.30	2.30	2.30	2.30
City Clerk/Human Resources	1.00	1.00	1.00	1.00
	5.30	5.30	5.30	5.30
Public Safety:				
Sworn Officers	11.00	11.00	11.00	11.00
Non-Sworn/Administration	2.00	2.00	2.00	2.00
	13.00	13.00	13.00	13.00
Public Works[1]	3.60	3.70	3.50	3.40
Parks & Recreation[1]	1.40	1.30	1.50	1.60
Community & Economic Development:				
Planning Services	2.00	1.60	1.60	1.60
Code Enforcement	0.30	0.30	0.30	0.30
	2.30	1.90	1.90	1.90
Totals	25.60	25.20	25.20	25.20

Source: City of Clayton Finance Department, Adopted Budgets.

[1] Full-time equivalent figure for maintenance personnel allocated to public works and parks & recreation functions based on actual

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Full-Time Equivalent City Employees by Function
Last Ten Fiscal Years

Fiscal Year Ending June 30					
2015	2016	2017	2018	2019	2020
2.00	2.00	2.00	2.00	2.00	2.00
2.30	2.30	2.30	2.30	2.30	2.30
1.00	1.00	1.00	1.00	1.00	1.00
5.30	5.30	5.30	5.30	5.30	5.30
11.00	11.00	11.00	11.00	11.00	11.00
2.00	2.00	2.00	2.00	2.00	2.00
13.00	13.00	13.00	13.00	13.00	13.00
3.10	3.50	4.80	4.50	4.50	4.50
1.90	1.50	1.20	1.50	1.50	1.50
1.60	1.60	1.60	1.60	1.60	1.60
0.30	0.30	0.30	0.30	0.30	0.30
1.90	1.90	1.90	1.90	1.90	1.90
25.20	25.20	26.20	26.20	26.20	26.20

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Operating Indicators by Function
Last Ten Fiscal Years

	Fiscal Year Ending June 30			
	2011	2012	2013	2014
Function:				
Police:				
Police calls for service	*	*	5,962	5,858
Parking violations	*	*	125	40
Traffic citations	*	*	585	664
Physical arrests	255	182	201	137
Public Works:				
Storm drains inspected	*	*	*	*
Trees trimmed	*	*	*	*
Park maintenance (acres)	*	*	*	*
Street signs maintained	*	*	*	*
Traffic signals maintained	*	*	*	*
Streetlights maintained	*	*	*	*
Parks and Recreation Services:				
Endeavor Hall rentals (days)	*	*	*	*
Hoyer Hall rentals	*	*	*	*
Ballfields (hours rented)	*	*	*	*
Community and Economic Development:				
Planning permits issued	*	*	*	*
Code enforcement cases closed	*	*	*	*
Building permits issued	255	182	201	376
General Government:				
Business licenses issued	*	*	*	547
Home occupation applications	*	*	*	*
Number of recruitments	*	*	*	*

Source: Clayton Finance Department, Contra Costa County Building Department, Clayton Planning Department, Clayton Police Department, Clayton Maintenance Department.

* Fiscal year ending June 30, 2016 was the first year of CAFR implementation for the City, this historical data not readily available.

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Operating Indicators by Function
Last Ten Fiscal Years

Fiscal Year Ending June 30					
2015	2016	2017	2018	2019	2020
7,303	6,730	6,650	7,497	7,545	8,419
53	53	151	132	146	572
653	518	494	506	386	289
200	219	150	169	169	94
*	500	500	500	56	500
*	70	70	70	316	412
*	19.07	19.07	19.07	19.07	19.07
*	350	350	350	17	212
*	13	13	13	7	13
*	1,200	1,200	1,200	89	1,196
*	135	144	138	139	86
*	33	53	39	92	33
*	1,512	1,170	1,047	1,225	386
*	161	107	182	187	36
*	61	93	43	79	47
430	386	403	475	424	232
707	645	777	840	741	768
	20	16	28	22	14
*	5	3	6	3	5

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Capital Asset Statistics by Function
Last Ten Fiscal Years

	Fiscal Year Ending June 30				
		2011	2012	2013	2014
Function:					
Public Safety:					
Automated license plate readers		0	0	0	0
Police stations		1	1	1	1
Patrol units	*	*	*	*	*
Situational awareness traffic cameras		0	0	0	0
Trailers/Trucks	*	*	*	*	*
Public Works:					
City owned parking lots		6	6	6	6
Community facilities	*	*	*	*	*
Curb lane miles	*	*	*	*	*
Manholes	*	*	*	*	*
Miles of storm drains	*	*	*	*	*
Number of catch basins	*	*	*	*	*
Number of street islands/medians	*	*	*	*	*
Miles of "v" ditches	*	*	*	*	*
Parking meters		0	0	0	0
Street signs	*	*	*	*	*
Streetlights (City owned)	*	*	*	*	*
Tractors/Trailers	*	*	*	*	*
Traffic signals (intersections)	*	*	*	*	*
Work trucks	*	*	*	*	*
Parks and Recreation Services:					
Acres of city parks		19.07	19.07	19.07	19.07
Acres of landscaped area (excl. parks)		46	46	46	46
Acres of open space		515.51	515.51	515.51	515.51
Acres of parks and irrigation		50	50	50	50
Miles of creekside trails		7	7	7	7
Miles of open space trails		20	20	20	20
Number of city parks		7	7	7	7
Number of city trees		3,000	3,000	3,000	3,000
Number of pedestrian bridges		9	9	9	9
Number of children playgrounds		4	4	4	4
Number of playfields		4	4	4	4

DRAFT 01.28.21 12PM

City of Clayton
Statistical Section
Capital Asset Statistics by Function
Last Ten Fiscal Years

Fiscal Year Ending June 30					
2015	2016	2017	2018	2019	2020
0	0	0	6	6	6
1	1	1	1	1	1
8	10	11	10	10	10
0	0	0	4	4	4
2	2	2	2	2	2
6	6	6	6	6	6
3	3	3	3	3	3
*	82	82	82	82	82
*	162	162	162	162	162
*	32.479	32.479	32.479	32.479	32.479
*	968	968	968	968	968
*	50	50	50	50	50
*	15	15	15	15	15
0	0	0	0	0	0
*	2,000	2,000	2,000	2,015	2015
*	500	500	500	500	500
11	12	13	13	14	14
13	13	13	13	13	13
8	8	8	8	7	8
19.07	19.07	19.07	19.07	19.07	19.07
46	46	46	46	46	46
515.51	515.51	515.51	515.51	515.51	515.51
50	50	50	50	50	50
7	7	7	7	7	7
20	20	20	20	20	20
7	7	7	7	7	7
3,000	3,000	3,000	3,000	3,000	3000
9	9	9	9	9	9
4	4	4	4	4	4
4	4	4	4	4	4

DRAFT 01.28.21 12PM

General Information:	
Date of Incorporation	March 18, 1964
Form of Government	Council-Manager
Population	11,337
Number of authorized City employees	27
Median age	46.3
Median household income	$182,442
Registered voters	8,363
Area in square miles	4.3
Miles of Streets:	
Lane miles	44.9
Pavement condition index	80
Fire Protection (CalFire Services Clayton)	
Number of stations	1
Police Protection	
Number of stations	1
Number of patrol vehicles	10
Number of sworn personnel	11
Education	
Elementary Schools:	1
Mt Diablo Elementary	
Middle Schools:	1
Diablo View Middle School	
Library (Contracted with Contra Costa County)	
Number of libraries	1
Number of items	61,368
Parks & Community Facilities	
Park sites	7
Park acreage	19.07
Open space acreage	515.51
Open space trail miles	20
Creekside trail miles	7
Endeavor Hall	1
Hoyer Hall (in the library)	1
City Hall Conference Room	1

Source: City of Clayton Finance Department, Contra Costa County Library, City of Clayton City Clerk, HdL "Demographic and Economics Statistics" Report for calendar year 2018, US Census, DataUSA.

DRAFT 01.28.21 12PM

ADDITIONAL REPORTS

DRAFT 01.28.21 12PM

This page intentionally left blank

DRAFT 01.28.21 12PM

INDEPENDENT AUDITORS' REPORT
ON INTERNAL CONTROL OVER FINANCIAL REPORTING
AND ON COMPLIANCE AND OTHER MATTERS
BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED
IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

To the City Council
City of Clayton, California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the City of Clayton, California, as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the City of Clayton, California's basic financial statements and have issued our report thereon dated January 14, 2021.

Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the City of Clayton, California 's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City of Clayton, California's internal control. Accordingly, we do not express an opinion on the effectiveness of the City of Clayton, California's internal control.

Our consideration of internal control was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that have not been identified. However, as described in the accompanying schedule of findings and questioned costs, we did identify certain deficiencies in internal control that we consider to be material weaknesses and significant deficiencies.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. We consider the following deficiencies in internal control to be material weaknesses:

Continuity of Personnel and Succession Plan

In the past couple years, the City has had significant transition in management, transitioning from interim City Managers and an interim Finance Director to a permanent City Manager and a permanent Finance Director.

With the change in management, some of the institutional knowledge and responsibilities that are essential for the smooth operation of the City were lost. As a result, the audit noted a couple of general ledger accounts that were not properly closed.

DRAFT 01.28.21 12PM

We recommend the City Council consider developing a succession plan in the event management is unable to perform their duties for a length of time due to illness, attrition, or any other reason. The succession plan should outline procedures to be implemented and a redistribution of responsibilities in the event of a temporary or permanent change. This plan will ensure that the organization will be able to conduct its operations in the orderly and efficient manner that has been the basic ingredient for its past success.

Policies and Procedures

The City formal written policies and procedures around closing the general ledger should be kept up to date. Risks surrounding financial transactions are constantly evolving with increasing use of technology. Had the City's policies and procedures been updated more frequently, such as on a biennial basis, the transition in the accounting department may have gone more smoothly, including procedures for month-end, quarter-end, and year-end closing processes.

A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance. We consider the following deficiencies to be significant deficiencies:

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the City of Clayton, California's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

CROPPER ROWE, LLP
Walnut Creek, California
January 14, 2021

DRAFT 01.28.21 12PM