

Appendix A: **Visual Impact Assessment**



Visual Impact Assessment Memorandum

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project


District 3 – SAC-99-14.3/14.4

EFIS Number: 0322000179

EA: 03-3J060

CML– 5479 (072)

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Statement of Compliance: Produced in compliance with National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) requirements, as appropriate, to meet the level of analysis and documentation that has been determined necessary for this project.

Per Exhibit D, Article XVIII, Section A. (1) of the contract: (c) 2020 California Department of Transportation.

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List of Acronyms and Abbreviations

AVE	Area of Visual Effect
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Elk Grove
FHWA	Federal Highway Administration
<i>Handbook</i>	<i>Caltrans 2023 VIA Handbook</i>
LCIRT	Laguna Creek Inter-Regional Trail system
NEPA	National Environmental Policy Act
PM	Post mile
Project	Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
SR	State Route
VIA	Visual Impact Assessment

1 Introduction

1.1 Purpose of Report and Assessment Methodology

The purpose of this Visual Impact Assessment (VIA) memorandum is to document potential visual change in the Area of Visual Effect (AVE). This memorandum follows the guidance outlined in the publication *Guidelines for the Visual Impact Assessment of Highway Projects*, published by the Federal Highway Administration (FHWA) in January 2015. The formatting of this template is aligned with the directions and examples included in the *Caltrans 2023 VIA Handbook (Handbook)*, available at: <https://dot.ca.gov/programs/design/lap-visual-impact-assessment>

2 Establishment Phase

2.1 Project Location and Setting

The Laguna Creek Inter-Regional Trail Crossing at State Route (SR) 99 Project (Project) location and setting provide the context for determining the type of changes to the existing visual environment. The proposed Project is on SR 99 at post mile (PM) 14.88 and PM 14.253 in the City of Elk Grove (City) in Sacramento County, California (**Figure 1. Project Vicinity** and **Figure 2. Project Location**). The Project is in Sacramento Valley Floristic Province of California. As the Project is located in the Sacramento Valley, the landscape is mostly flat with no significant landforms. Land cover within the Project area consists of disturbed/urban, annual grassland, perennial creek, emergent wetland, seasonal wetland, and seasonal wetland swale habitats. Disturbed/urban areas include SR 99 and commercial/residential development surrounding the Project area. Natural land cover is present in the undeveloped areas, located in the eastern and western portions of the Project area.

2.2 Project Description

The City of Elk Grove, in cooperation with the California Department of Transportation (Caltrans), proposes to construct a segment of the Laguna Creek Inter-Regional Trail system (LCIRT) which includes a pedestrian overcrossing spanning SR 99, East Stockton Boulevard, and West Stockton Boulevard; a multi-use trail east of the pedestrian overcrossing; and a pedestrian bridge spanning Whitehouse Creek in the City of Elk Grove.

The City of Elk Grove has a network of multi-use trails that are located throughout the City, including the LCIRT system. The LCIRT provides users access to schools, employment, commercial centers, recreational amenities, and community facilities; however, a significant gap in the system is created by the barrier of SR 99 where users are forced off the trail and onto local roads that lack adequate pedestrian and bicycle facilities. With the Project, the City will close that gap, providing a safe route across the barrier by constructing a pedestrian overcrossing over SR 99, East Stockton Boulevard, and West Stockton Boulevard. Additionally, as part of the gap closure, the Project will construct a multi-use trail east of the overcrossing and a pedestrian bridge over Whitehouse Creek, thereby completing the pedestrian/bicycle facilities. The

purpose of the Project is to fill the final gap and complete the City's LCIRT. This Project is needed to provide additional opportunity to utilize active modes of transportation and reduce the number of trips in motorized vehicles.

The pedestrian overcrossing of SR 99, West Stockton Boulevard, and East Stockton Boulevard is proposed as a concrete structure approximately 760-feet-long (**Figure 3. Project Features**). The pedestrian bridge over Whitehouse Creek is proposed as a prefabricated truss. Lastly, the multi-use trail would be a Class I bikeway.

Right-of-way acquisitions and temporary construction easements are needed where the multi-use trail passes through privately-owned parcels and will be obtained during final design of the Project. Below ground and aerial utility relocations are anticipated. Additionally, a Caltrans Encroachment permit will be required due to the work over SR 99, which is a Caltrans owned facility. Construction is anticipated to start in 2026 and is anticipated to last approximately 18 months.

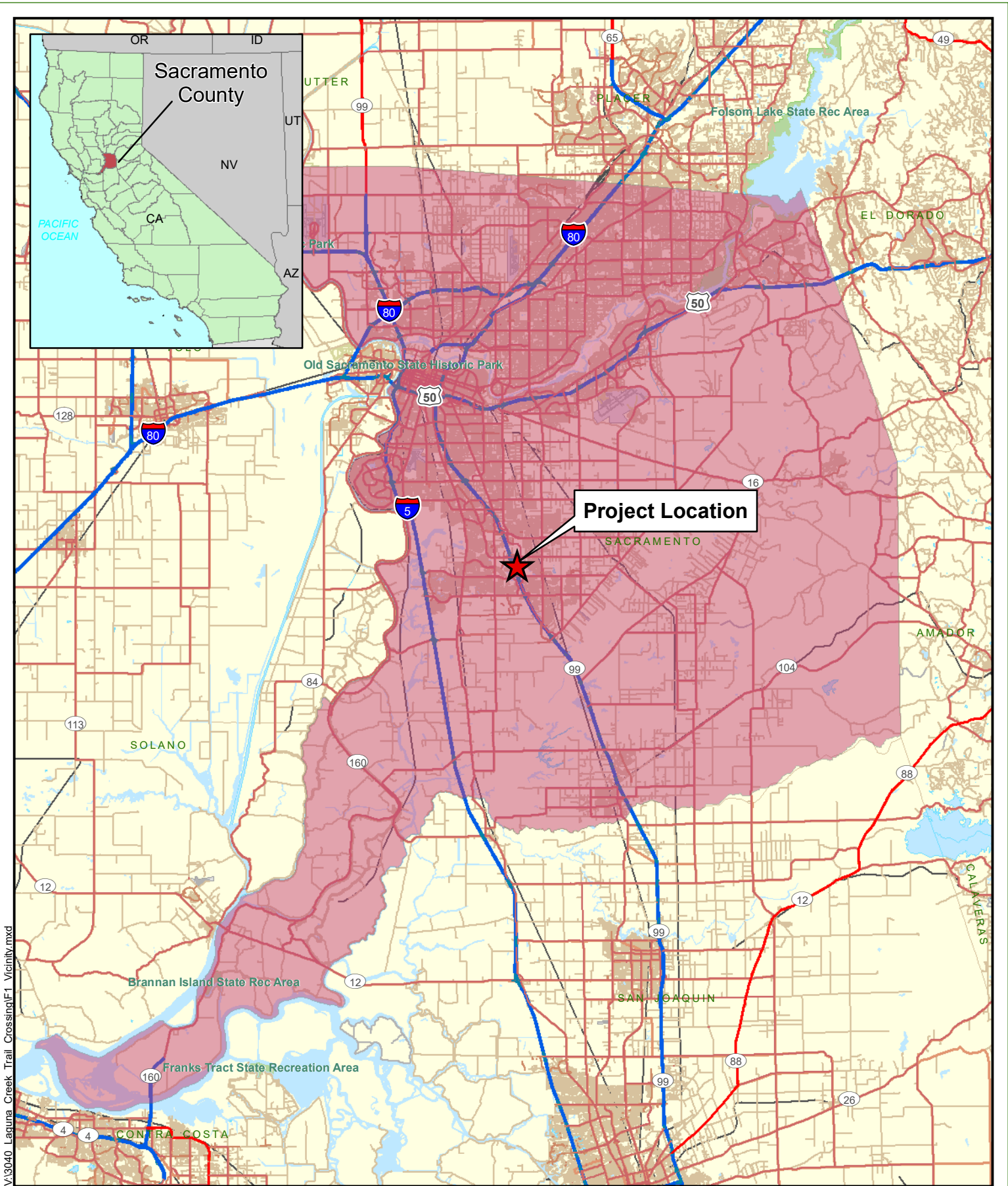
This Project is funded through both local and federal funds and is subject to compliance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). The lead agency for CEQA compliance is the City and the NEPA lead agency is Caltrans.

Project Aesthetic Features and Elements

The new pedestrian overcrossing structure over SR 99 will follow aesthetics developed by the project Landscape Architect with architectural treatment along the sides of the box girder structure and mechanically stabilized earth walls. Aesthetic treatments on the new pedestrian overcrossing structure will also be consistent with surrounding interchanges. Additionally, aesthetic treatments will be developed for the multi-use trail and pedestrian bridge over Whitehouse Creek. Aesthetic treatments will be presented to City Council and stakeholders throughout the design phase in order to minimize visual impacts.

2.3 Description of Area of Visual Effect

The AVE for the Project was developed based on perspective views of the road and from the road and the location of proposed Project features. **Figure 4** presents a map showing the AVE.



V:\3040_Laguna Creek Trail Crossing\F1_Vicinity.mxd

Source: ESRI 2008; Dokken Engineering/6/21/2023; Created By: ahale



0 5 10 15 Miles

FIGURE 1
Project Vicinity

CML-5479(072)

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

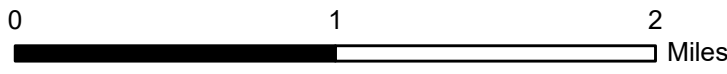
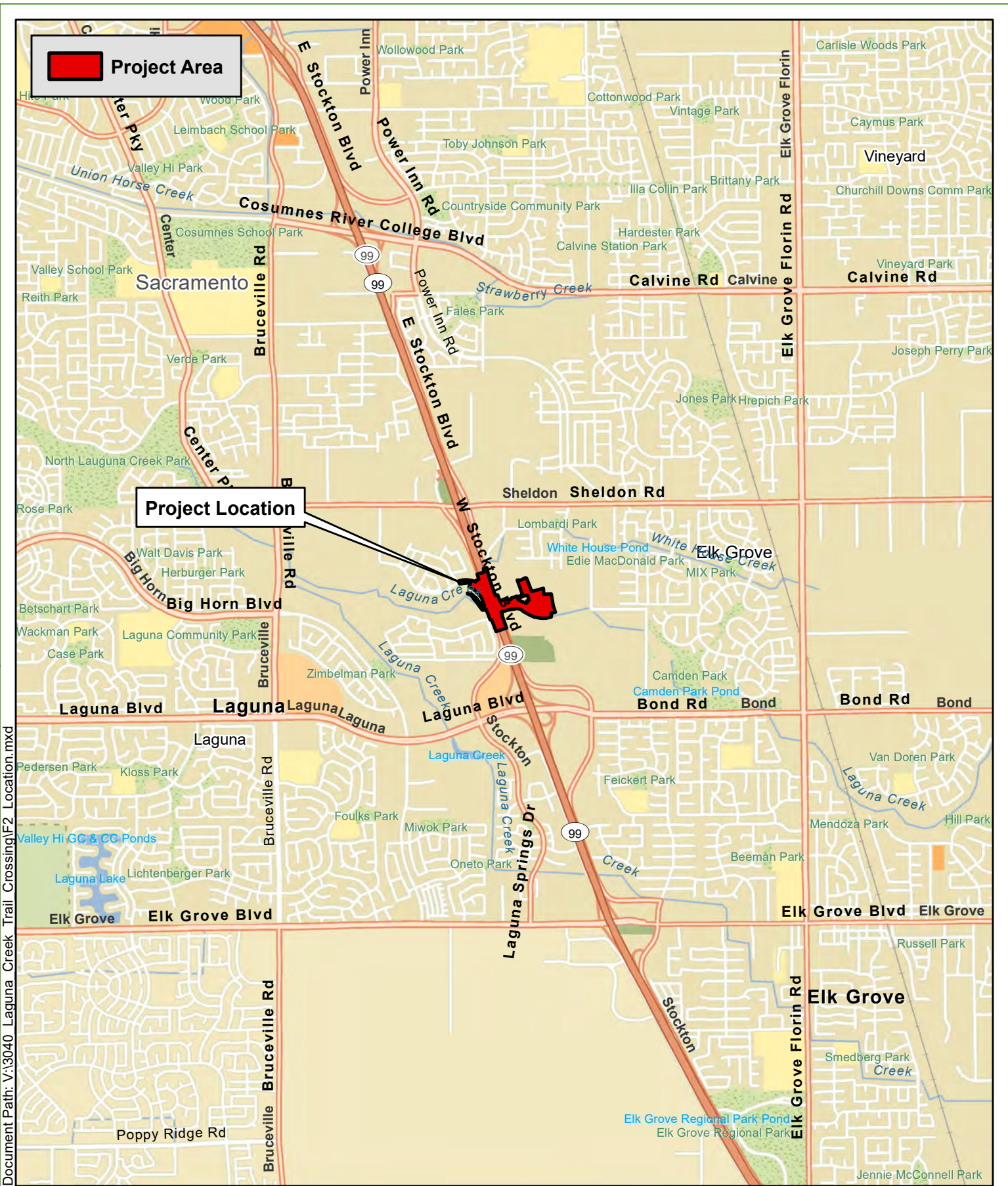
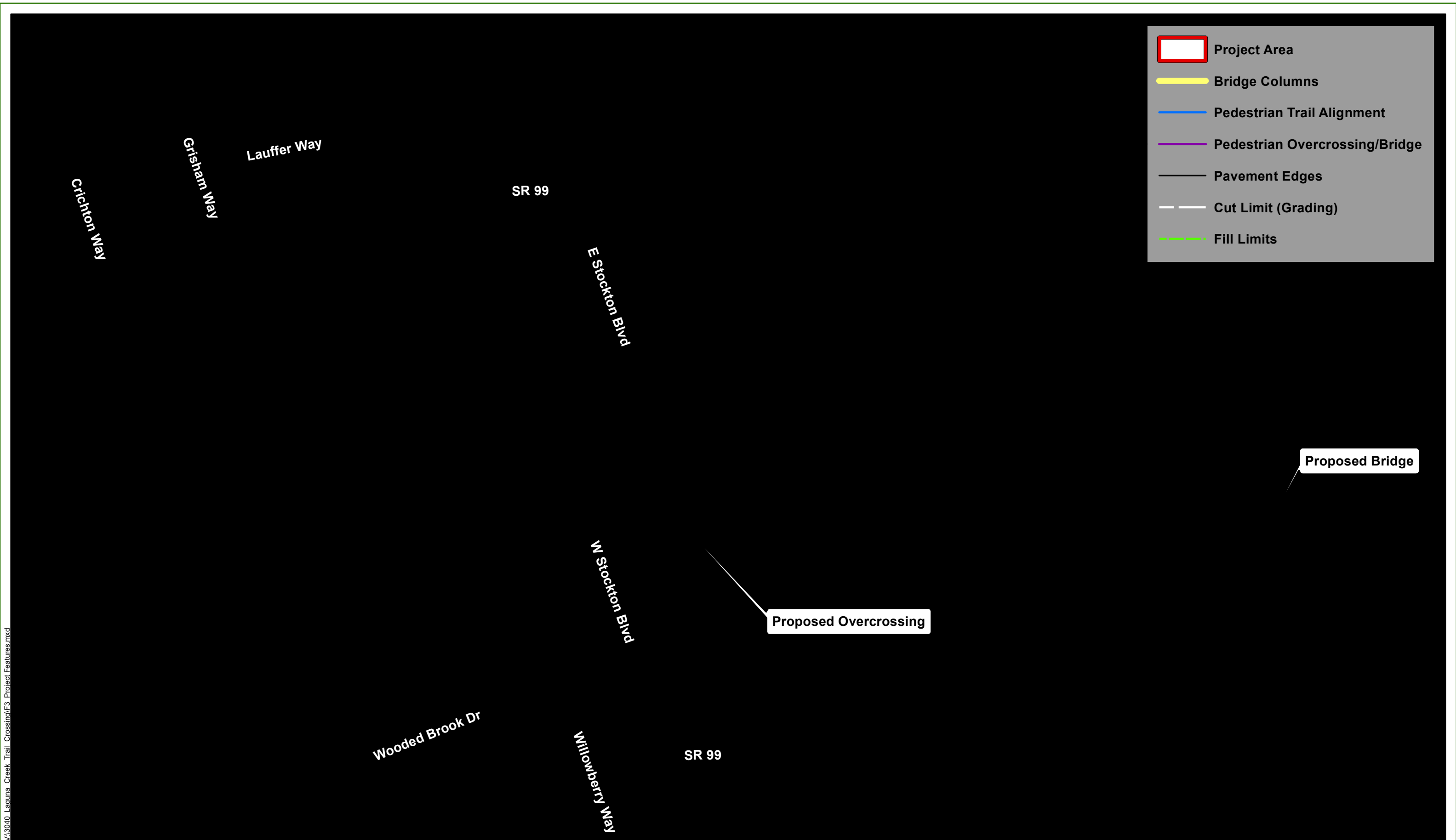


FIGURE 2
Project Location

CLM-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California





V:\3040 Laguna Creek Trail Crossing\F3 Project Features.mxd

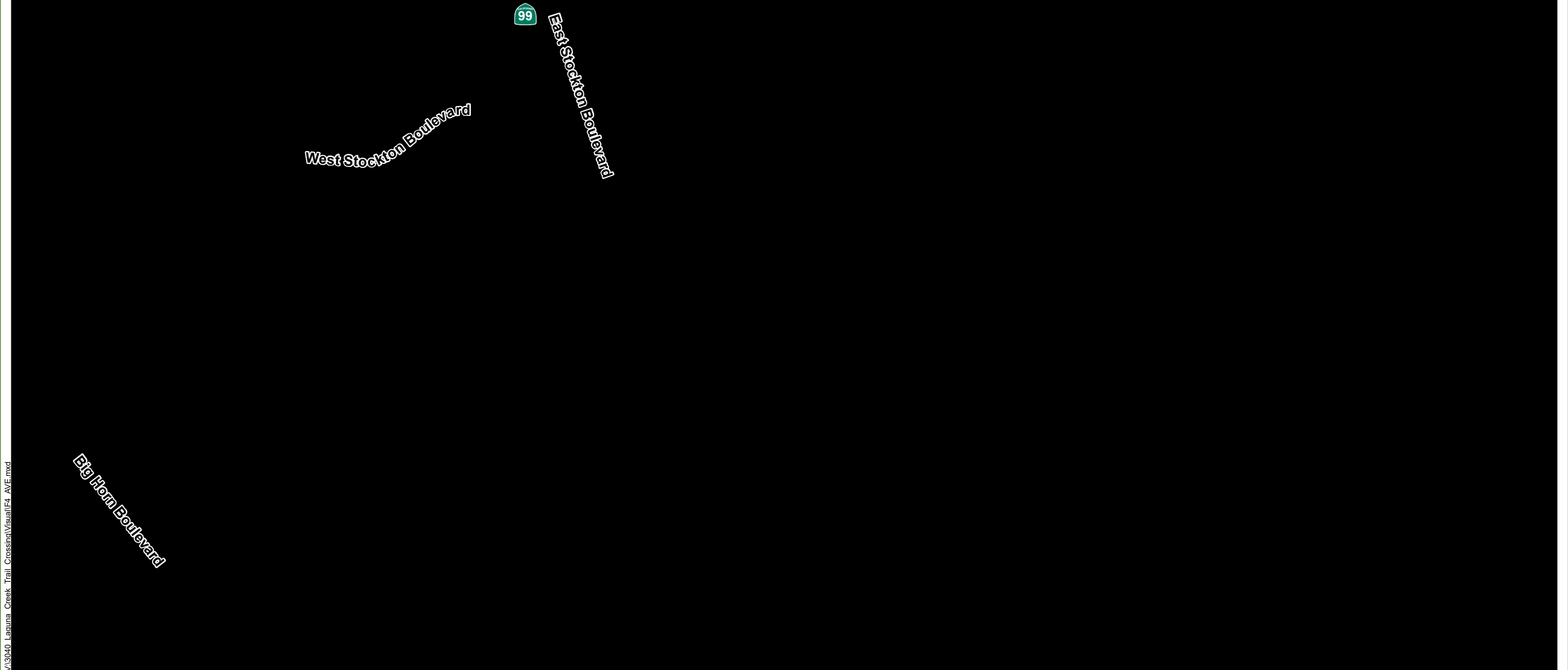
Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd



FIGURE 3
Project Features

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

 Area of Visual Effect
 Project Area



V:\3040 Laguna Creek Trail Crossing\Visual\F4 AVE.mxd

Source: ESRI Maps Online; Dokken Engineering 9/20/2024; Created By: amyd



FIGURE 4
Area of Visual Effects

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

2.4 Visual Resources and Scenic Resources

Scenic resource and visual resource identification during the Establishment Phase was conducted based on a desktop search of available maps, regional and local plans, and other databases. In the context discussed in this memo, “scenic resources” are those officially designated by federal, state, regional, tribal, or local authorities; “visual resources” are those that exist in the Project AVE without being officially recognized.

National Scenic Byway Designation

The Project site does not contain or have views of any officially designated National Scenic Byways (FHWA, 2024).

State Scenic Highway Designation

The Project site does not contain or have views of any state scenic highways (Caltrans, 2024).

Classified Landscaped Freeway

The Project area does not reside within a classified landscaped freeway (Caltrans, 2024).

Local Scenic Resources

The Elk Grove General Plan Update Environmental Impact Report defines scenic resources as significant visual features that contribute to the overall visual character of the area. They can be land form elements, such as hillsides or valleys; land cover components, such as rivers, streams, and forests; or areas that are unique and valuable to the community, such as parks and preserve (Elk Grove, 2018). Therefore, the undeveloped open land located east and west of SR 99, where Laguna and Whitehouse Creeks are located, are considered scenic resources.

3 Inventory Phase

3.1 Description of Landscape Visual Character

The existing visual character of the AVE is dominated by the urban and developed environment; however, there is an undeveloped open area with natural vegetation east and west of SR 99, where Laguna Creek and Whitehouse Creeks are located.

The natural environment consists of annual grassland, Laguna and Whitehouse Creeks and associated emergent vegetation, and adjacent wetland features. The existing lines in the natural environment are irregular and the form is heterogeneous. The vegetation in this area varies from deep greens to browns depending on the season and the texture is rough. Within the AVE, the cultural environment consists of residential housing, Creekside Christian Church, fences, and ornamental plantings. Outside of the AVE, the cultural environment consists of other commercial development adjacent to SR 99. The residential houses and Creekside Christian Church contain horizontal and

vertical lines and neutral coloring. The ornamental plantings, which are planted at Creekside Christian Church and residential houses, are green and spherical shaped.

Lastly, the Project environment consists of SR 99, the existing LCIRT west of SR 99, the frontage roads adjacent to SR 99, utility poles, street lighting, roadway signs, a portion of the undeveloped open land east and west of SR 99. SR 99 and the frontage roads have straight and sinuous lines, are colored gray with yellow and white lines to delineate the road as necessary, and are made of smooth-textured concrete. The LCIRT west of SR 99 contains sinuous lines, is colored grey, and made with smooth textured concrete. Existing Sheldon Rd and Laguna Blvd/Bond Rd overpasses over SR-99, located north and south of the Project area, contain horizontal lines and are colored grey and made of smooth-textured concrete. The utility poles contain vertical lines and contain brown coloring as well as grey coloring. The utility lines which connect the utility poles are thin horizontal lines with grey and/or black coloring. The existing roadway signs vary in shape and are supported by thin gray cylindrical forms, and they are made of galvanized steel with smooth texture. The signs vary in color, either yellow, green, or red and are also made of galvanized steel with smooth texture. Lastly, the undeveloped land within the project environment contains the same visual character described for the natural environment.

Existing lighting in the area consists of streetlights along the adjacent frontage roads and residential streets and lighting from residential houses and commercial developments.

The Project will be retaining dominant linear features in the area but will also introduce new linear features including the pedestrian overcrossing over SR 99, pedestrian bridge over Whitehouse Creek, and multi-use trail. The Project will positively influence the Project environment by introducing an aesthetically pleasing pedestrian overpass structure over SR 99 but will negatively influence the natural environment by introducing human made features into a mostly undeveloped natural area. The Project will connect to another segment of the LCIRT east of Whitehouse Creek which has previously undergone environmental analysis and preliminary design and is now in the final design, right-of-way acquisition, and environmental permitting phase.

3.2 Description of Landscape Visual Quality

Vividness of the overall landscape is moderately low as the dominant visual elements are plain and unmemorable. The natural environment, which consists of annual grassland, Laguna and Whitehouse Creeks and associated emergent vegetation, and adjacent wetland features, makes the landscape memorable. However, the cultural environment, which consists of the developed land surrounding the AVE, and Project environment, which consist of SR 99 and associated features, dominate the area. Intactness is low since SR 99 and the other urban development in the area disrupts the landscape character. Unity is also low since SR 99 and surrounding developed land and natural environment are not balanced or in scale with each other.

3.3 Viewers

There are two major types of viewer groups for highway projects: neighbors and travelers.

Neighbors are people who have views to the road. For this Project neighbors include:

- Residents
- Institutional viewers (workers and attendees of Creekside Christian Church)

Travelers are people who have views from the road. For this Project travelers include:

- Motorists
- Bicyclists
- Pedestrians

The Project will introduce new features over SR 99 and within undeveloped open areas, which may be considered of local value. Since viewer sensitivity is moderately high and viewpoint sensitivity is moderate, neighbors (people with views *to* the transportation project), travelers (people with views *from* the transportation project), and viewpoints will be affected by the proposed Project. See below for an analysis regarding viewer and viewpoint sensitivity.

Viewer Sensitivity

To determine viewer sensitivity, three attributes for viewer exposure (proximity, extent or number of viewers, and duration) and three for viewer awareness (attention, focus, and protection) were evaluated.

The neighbors viewer groups would have a moderately high viewer exposure since they are in proximity to the Project features, extent would be moderate as a moderate amount of individuals would have direct views of the Project features, and duration would be high due to their fixed position. For the neighbors viewers group, viewer awareness is moderate as individuals in this viewer group would be observant of the proposed changes and are likely to value the undeveloped open area to the east and west of SR 99; however, neighbors would have a broad and general view of the area. Broad and general views of the area would result in less sensitivity to visual changes. For the travelers viewer group, viewer exposure would be moderately high since they are in proximity to the Project features, extent would be moderately high as there are many travelers on SR 99 that would have views of the Project, and duration would be moderately low to low since they are only passing through the area. Viewer awareness would be moderately low since individuals in this viewer group would be preoccupied with other activities, have a broad and general view of the area, but are likely to value the natural setting of the LCIRT. Overall viewer sensitivity for neighbors and travelers is considered to be moderate.

Viewpoint Sensitivity

Viewpoint sensitivity is a judgment of the scenic importance of a viewpoint and whether it is part of an identified scenic resource. Sensitive viewpoints can be scenic or visual resources, vistas, landscape, or ocean views important to neighbors or travelers.

The undeveloped open land which contains Laguna and Whitehouse Creeks is considered a local scenic resource according to the Elk Grove General Plan. However, the developed area adjacent distracts from this resource. Therefore, viewpoint sensitivity is considered moderate.

3.4 Viewpoints

Viewpoints can be vistas, open landscape views, ocean views, views of important mountains, views of historic or attractive buildings, rock outcrops, heritage trees, tree groves etc. The importance of each viewpoint is determined by the level of scenic resource designation, the distance of the scenic or visual resource, and the visual quality of the scenic or visual resource. See section 3.3 for more information regarding viewpoint sensitivity.

4 Analysis Phase

4.1 Evaluation of Visual Impact

Visual impact is determined by combining visual change and visual sensitivity, both of which are analyzed below:

Visual Change

After analyzing visual compatibility and visual contrast with and without implementation of environmental commitments (described below), visual change was determined. With implementation of **VIS-1** through **VIS-5**, the overall visual change in the existing natural, cultural and Project environments created by the proposed Project will be slightly adverse. Alternatively, without implementation of environmental commitments, the overall visual change in the existing natural, cultural and Project environments created by the proposed Project will be moderately adverse. See **Tables 4-1** and **4-2** and visual compatibility and contrast analyses below for more information.

Table 4-1 Visual Change with Environmental Commitments

Visual Compatibility	Visual Contrast	Visual Change
Slightly Adverse	Slightly Adverse	Slightly Adverse

Table 4-2 Visual Change without Environmental Commitments

Visual Compatibility	Visual Contrast	Visual Change
Slightly Adverse	Moderately Adverse	Moderately Adverse

Visual Compatibility

The proposed project's visual compatibility is analyzed by comparing the fit of the project's visual character, intactness, lighting and glare with the same attributes of the natural, cultural and existing project environments.

The existing visual character is dominated by the urban and developed environment; however, there is undeveloped open land with natural vegetation east and west of SR 99, where Laguna Creek and Whitehouse Creeks are located. Due to the construction of the pedestrian bridge over Whitehouse Creek and multi-use trail, the Project would remove 0.88 acres of emergent wetland habitat, 0.05 acres of seasonal wetland habitat, and 0.43 acres of annual grassland habitat. In total, the Project would remove approximately 1.53 acres of vegetation; therefore, the undeveloped open land located in the eastern area of the Project will exhibit a decrease in vegetation colors and textures and an increase grey color and human-made textures. Within the Project area, these habitats comprise 12.58 acres; thus, removal of 1.53 acres would impact a small percentage of vegetation that contributes to the visual character of the area. Temporary impacts to these habitats due to construction activities, such as the cut and fill areas, etc. are also anticipated; however, impacts would be minimized with implementation of **VIS-1** and **VIS-2**. The SR 99 pedestrian overcrossing would introduce a large vertical and horizontal element above SR 99. Since the area is primarily urban, there are various highway overcrossings along SR 99, and the pedestrian overcrossing would minimally obstruct views of the undeveloped open space area east and west of SR 99, visual character would not be negatively impacted by the pedestrian overcrossing. In order to further minimize visual impacts, aesthetic treatments will be applied to all project features to complement the visual character of the area, per **VIS-4** and **VIS-5**.

The Project would also have a slightly adverse effect on intactness since it would introduce human made features to an undeveloped open area. Lastly, the proposed Project would install lighting on the SR 99 pedestrian overcrossing. Lighting would either be installed on light poles along the pedestrian overcrossing or incorporated along the pedestrian overcrossing railings/barriers. This lighting is not anticipated to result in substantial new light and glare impacts as the lights would be shielded, per **VIS-3**. Additionally, surrounding light from adjacent developed areas would still dominate the area. Lighting will not be installed on the multi-use trail or pedestrian bridge over Whitehouse Creek.

Although the environmental commitments listed above would minimize visual impacts, visual compatibility of the proposed Project with the existing natural, cultural, and Project environments would remain slightly adverse with and without implementation of the environmental commitments since the SR 99 pedestrian overcrossing would be introduced in a highly urbanized area and a small percentage of vegetation that contributes to the visual character of the area would be removed or impacted by the multi-use trail and pedestrian bridge.

Visual Contrast

The proposed project's visual contrast is analyzed by comparing the fit of the project's vividness and unity with the same attributes of the natural, cultural and existing project environments.

Currently, vividness of the overall landscape is moderately low as the dominate visual elements are plain and unmemorable and unity is low since SR 99, the surrounding developed land, and the natural environment are not balanced or in scale with each other. Applying aesthetic treatments on the SR 99 overcrossing, per **VIS-4**, will increase vividness by providing a memorable structure over a segment of SR 99 which lacks distinctive or memorable features. Although the removal of 1.53 acres of vegetation would impact a small percentage of vegetation in the area, vividness of the area would be decreased as a result of the Project. As such, **VIS-1** and **VIS-2** would be implemented to reduce visual impacts. Aesthetic treatments on the multi-use trail and pedestrian bridge, per **VIS-5**, would ensure that the vividness of the existing environments would not decrease further as well. Lastly, unity of the undeveloped open area would decrease since the Project would introduce new human made features.

Overall, with implementation of environmental commitments, the visual contrast of the proposed Project with the existing natural, cultural and Project environments will have a slightly adverse effect. Without implementation of environmental commitments, the visual contrast of the proposed Project with the existing natural, cultural, and Project environments will have a moderately adverse effect, as construction of the pedestrian overcrossing, multi-use trail, and pedestrian bridge without aesthetic treatments would decrease vividness of the area.

Visual Sensitivity

As discussed in section 3.3, the overall visual sensitivity to the proposed Project in the existing natural, cultural, and Project environments will be moderate.

Visual Impact

After analysis of visual change and visual sensitivity, the visual impact was determined based on visual change and visual sensitivity descriptions, in accordance with Table 4-6 in the *Handbook*.

As visual change and sensitivity are of equal importance, with implementation of the environmental commitments, the overall visual impact of the proposed Project on the existing natural, cultural, and Project environments will be very low adverse, see **Table 4-3**. Alternatively, without implementation of the environmental commitments, the overall visual impact of the proposed Project on the existing natural, cultural, and Project environments will be moderately low adverse, see **Table 4-4**.

Table 4-3 Visual Impact with Environmental Commitments

Visual Change	Visual Sensitivity	Visual Impact
Slightly Adverse	Moderate	Very Low Adverse

Table 4-4 Visual Impact without Environmental Commitments

Visual Change	Visual Sensitivity	Visual Impact
Moderately Adverse	Moderate	Moderately Low Adverse

CEQA Checklist Aesthetics questions:

Would the project:

- a) Have a substantial adverse effect on a scenic vista?

According to the Elk Grove General Plan Update Draft Environmental Impact Report, there are no officially designated scenic vistas within or visible in the City of Elk Grove. Therefore, there would be no impact.

- b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

According to the State Scenic Highway Map and the Elk Grove General Plan Update Draft Environmental Impact Report, there are no officially state designated scenic highways within the City of Elk Grove. Therefore, there would be no impact.

- c) In nonurbanized 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?

The Project is located in the City of Elk Grove, which is an urbanized area. Zoning within the Project area is a mixture of Open Space, Public Services, and Shopping Center designations. The Project would construct a pedestrian overcrossing over SR 99, a pedestrian bridge over Whitehouse Creek, and a multi-use trail that would be used as part of the LCIRT. The proposed Project would be consistent with the existing zoning. Additionally, per **VIS-4** and **VIS-5**, aesthetic treatments would be applied to all project features to minimize visual impacts, ensuring that the Project would not conflict with regulations governing scenic quality, including the City of Elk Grove Design Guidelines.

- d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

The proposed Project would install lighting on the SR 99 overcrossing. Lighting would either be installed on light poles along the pedestrian overcrossing or incorporated along the pedestrian overcrossing railings/barriers. The lighting associated with the SR 99 overcrossing is not anticipated to result in substantial new light and glare impacts as the lights would be shielded, per measure **VIS-3**. Impacts are anticipated to be minimal.

5 Mitigation Phase (Environmental Commitments)

5.1 Recommendations for Environmental Commitment Measures

Environmental commitments have been proposed to lessen the visual impact of the Project, which may also help generate public acceptance of a Project. Environmental commitments will be designed and implemented with the concurrence of the District Landscape Architect.

The following environmental commitments can avoid or minimize negative visual effects and/or improve aesthetics:

- VIS-1:** Prior to the start of construction activities, the Project limits within environmentally sensitive areas (Laguna Creek, Whitehouse Creek, annual grasslands, emergent wetlands, seasonal wetland, and seasonal wetland swale), will be marked with temporary high visibility fencing or staking to ensure construction will not further encroach into sensitive resources. Environmentally sensitive areas will be marked on project plans (same as Natural Environment Study BIO-2).
- VIS-2:** Following the completion of construction, soils that have been temporarily disturbed within sensitive upland/aquatic habitat (annual grasslands, emergent wetlands, seasonal wetland, and seasonal wetland swale) will be decompacted and seeded with California native plant species. At least two seed mixes will be developed, one for upland habitats and one for wetland habitats. The native seed mix must be approved by the Project biologist and seeds must be sourced within 50 miles of the Project site from within the Central Valley region. Seed mixes will be developed to kick start vegetation growth, stabilize soils, and reestablish plant diversity. The final post-construction seed mix must be applied between October-February. The final slopes along the multi-use trail will be either be treated with rock slope protection, based on hydraulic needs, or a combination of rock slope protection and native vegetation applied via hydroseed. These treatments are consistent with trail segments throughout the City of Elk Grove and will allow the trail to blend in with the natural area.
- VIS-3:** Lighting will be appropriately shielded. The Project's lighting design must be consistent with the City Elk Grove lighting guidelines and standards.
- VIS-4:** The new pedestrian overcrossing structure over SR 99, including slope paving, will follow aesthetic treatments developed by the project Landscape Architect and the City of Elk Grove City Council, and should be compatible with adjacent overcrossing bridge structures.
- VIS-5:** Aesthetic treatments on the new multi-use trail and pedestrian bridge over Whitehouse Creek will be consistent with other trails and bridges along the LCIRT. Additionally, all temporarily impacted areas will be revegetated with a native seed mix, per **VIS-2**.

6 Conclusions

The proposed Project is on SR-99 at PM 14.88 and PM 14.253 in the City of Elk Grove in Sacramento County, California. Land cover within the Project area consist of disturbed/urban, annual grassland, perennial creek, emergent wetland, seasonal wetland, and seasonal wetland swale habitats. Disturbed/urban areas include SR 99 and the development adjacent. Natural land cover is present in the undeveloped areas, located in the eastern and western portions of the Project area. The Project would construct a pedestrian overcrossing over SR 99, a pedestrian bridge over Whitehouse Creek, and a multi-use trail that would be used as part of the LCIRT. Due to the construction of the pedestrian bridge over Whitehouse Creek and multi-use trail, the Project would remove approximately 1.53 acres of vegetation; therefore, the undeveloped open land located in the eastern area of the Project will exhibit a decrease in vegetation colors and textures and an increase grey color and human-made textures. The SR 99 pedestrian overcrossing would introduce a large vertical element above SR 99 and a permanent light source. The overall visual impact of the proposed Project without implementation of the environmental commitments, listed in Section 5, will be moderately low adverse. However, with implementation of **VIS-1** thorough **VIS-5**, visual impacts will be minimized. As part of the Project, aesthetic treatments will be applied to the pedestrian overcrossing, pedestrian bridge, and multi-use trail. With implementation of the environmental commitments, visual impact will be very low adverse.

7 References

- Caltrans. Classified “Landscaped Freeways”. 2024. Available at: <<https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-b-classified-landscaped-freeways/modified-clf-master-list>>
- Caltrans. VIA for Projects on State Highway System. 2023. Available at: <<https://dot.ca.gov/programs/design/lap-visual-impact-assessment>>
- Caltrans. Visual Impact Assessment Handbook. 2023. Available at: <<https://dot.ca.gov/-/media/dot-media/programs/design/documents/via-handbook--a11y.pdf>>
- Caltrans. Visual Impact Assessment Handbook Appendix. 2023. Available at: <<https://dot.ca.gov/-/media/dot-media/programs/design/documents/via-handbook-appendix-a11y.pdf>>
- Caltrans. Visual Impact Assessment Handbook Glossary. 2023. Available at: <<https://dot.ca.gov/-/media/dot-media/programs/design/documents/viahandbookglossarya11ypdf.pdf>>
- Caltrans. Scenic Highways. California State Scenic Highways. 2024. Available at: <<https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways>>

City of Elk Grove. General Plan. 2023. Available at: < <https://www.elkgrovecity.org/general-plan/general-plan-documents#generalPlan>>

City of Elk Grove. General Plan Update Draft Environmental Impact Report. 2018. Available at: < <https://www.elkgrovecity.org/general-plan/general-plan-documents#generalPlan>>

FHWA. National Scenic Byways & All-American Roads. 2024. Available at: < <https://fhwaapps.fhwa.dot.gov/bywaysp/States/Show/CA>>

Appendix A: Scoping Questionnaire

Excessive Heat Warning: Major heat wave with dangerously high temperatures forecasted across California. Do not leave children or pets in unattended vehicles.

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VIA Questionnaire

Questionnaire to Determine Visual Impact Assessment (VIA) Level

Use the following questions and subsequent score as a guide to help determine the appropriate level of VIA documentation. This questionnaire assists the VIA preparer (i.e. Landscape Architect) in estimating the probable visual impacts of a proposed project on the environment and in understanding the degree and breadth of the possible visual issues. The goal is to develop a suitable document strategy that is thorough, concise and defensible.

Enter the project name and consider each of the twelve questions below. Select the response that most closely applies to the proposed project and corresponding number on the right side of the table. Points are automatically computed at the bottom of the table and the total score should be matched to one of the four groups of scores at the end of the questionnaire that include recommended levels of VIA study and associated annotated outlines (i.e., memo, standard, advanced).

This scoring system should be used as a preliminary guide and should not be used as a substitute for objective analysis on the part of the preparer. Although the total score may recommend a certain level of VIA document, circumstances associated with any one of the ten question-areas may indicate the need to elevate the VIA to a greater level of detail. For projects done by others on the State Highway System, the District Landscape Architect should be consulted when scoping the VIA level and provide concurrence on the level of analysis used.

[The Standard Environmental Reference, Environmental Handbook, Volume I: Chapter 27-Visual & Aesthetics Review](#)

lists preparer qualifications for conducting the visual impact assessment process. Landscape Architects receive formal training in the area of visual resource management and can appropriately determine which VIA level is appropriate.

Preparer Qualifications:

"Scenic Resource Evaluations and VIA's are performed under the direction of licensed Landscape Architects. Landscape Architects receive formal training in the area of visual resource management with a curriculum that emphasizes environmental design, human factors, and context sensitive solutions. When recommending specific visual mitigation measures, Landscape Architects can appropriately weigh the benefits of these different measures and consider construction feasibility and maintainability."

Calculate VIA Level Score

Project Information

Project Name

Laguna Creek Inter-Regional Trail Crossing at SR 99

Project Identification #

CML-5479(072)

Project Location (Dist-Co-Rte-PM)

3-SAC-SR99-PM 14.88

Preparer Name and CA LA License Number

Dokken Engineering

Caltrans District Landscape Architect (DLA)

For projects on State Highway System Only, Name of Caltrans District Landscape Architect (DLA) providing VIA Questionnaire Score Concurrence - if different than above.

For Projects on State Highway System Only, Enter DLA Name

Visual Features of Project and its Alternative(s)

Pedestrian overcrossing over SR99, Pedestrian bridge over Whitehouse Creek, and multi-use trail

Additional Visual Context Remarks

Enter Additional Visual Context

Regulatory Framework

Potential Agencies that may have to be Involved

Federal State Local Tribal Other

Visual Change and Sensitivity

Landscape Observations

Water Visually dominant landforms Natural vegetation

Visually Appealing Structures Other features of interest

Impact of Project on Natural, Cultural, and Existing Project Environments

Highly compatible Moderately compatible Not compatible Other

Landscape Context and Development Patterns

Natural/Undeveloped Rural Suburban Urban

Scenic, Visual and Historic Resource(s) within the Area of Visual Effect

Officially designated State Scenic Highway Eligible Scenic Highway Visual resources

Federally (or otherwise) designated historic, scenic resource

Expected Agency Involvement

Expected Agency Involvement

Expected Public Feedback

Scenic resources identified as important Not important No public feedback

Change to Visual Environment

Does the project's aesthetic approach appear to be consistent with 1. applicable laws, ordinances, regulations, policies, or standards?

Although the State is not required to comply with regional and local planning ordinances and other regulations, these documents are critical in understanding the importance that communities place on visual resources. The Caltrans Environmental Planning branch may have copies of the planning documents that pertain to the project. If not, this information can be obtained by contacting the local planning department.

High Consistency (2 point) ▼

Will permits be required by outside regulatory agencies (i.e., federal, 2. state, or local)?

Permit requirements can have an unintended consequence on the visual environment. Anticipated permits, as well as specific permit requirements may be determined by talking with the project Environmental Planner and Project Engineer. Note: coordinate with the Caltrans representative responsible for obtaining the permit prior to communicating directly with any permitting agency.

Yes, both federal and state, or multiple permits required (4 points) ▼

Will the project character be compatible with the visual character of the 3. existing landscape?

Consider the types of adverse changes to the scenic integrity of the landscape caused by the project. Evaluate the scale and extent of the project features compared to the surrounding scale of the community. Is the project likely to give an urban appearance to an existing rural or suburban community?

High Compatibility (1 points) ▼

4. Will the project contrast adversely with the memorability (vividness), natural harmony and/or cultural order (unity) of the existing landscape?

Evaluate the scale and extent of the project features compared to the scale of the visual elements within the surroundings. Is the project likely to change the appearance in a way that is contrasting with the line, color, form, and texture of the existing landscape visual character?

Low Adverse Contrast (2 point) ▼

5. Will the project, when viewed together with other past or foreseeable projects, result in a cumulative adverse change in the visual quality or character of the existing landscape?

Identify any projects in the area (both Caltrans' and others') that have been recently constructed and/or are reasonably foreseeable and/or currently planned for future construction. The window of time and the extent of area applicable to possible cumulative impacts should be based on a reasonable anticipation of the viewing public's awareness of cumulative change.

Project is unlikely to result in noticeable adverse cumulative visual impacts (2 points) ▼

6. Will the project produce a new source of substantial light or glare, which will adversely affect daytime or nighttime views within the area?

Identify new sources of lighting and glare and how day- and nighttime visual conditions may change.

Moderate potential for adverse effects (3 points) ▼

7. What is the potential that the project proposal will be controversial within the community?

Assess the level of public concern by talking with local agency management and staff familiar with the affected community's sentiments as evidenced by past projects and/or current information.

Low Potential that project will be controversial (2 points) ▼

8. How sensitive are potential viewer groups likely to be regarding visible changes proposed by the project?

Consider among other factors who the viewer groups represent, the number of viewers within the group, probable viewer expectations, activities, viewing duration, and orientation. The expected viewer sensitivity level may be scoped by applying professional judgment, and by soliciting information from other Caltrans staff, local agencies and community stakeholders familiar with the affected community's sentiments and demonstrated concerns..

Moderate Sensitivity (3 points) ▼

What level of local concern is there for the types of specific project features (e.g., bridge structures, large excavations, sound barriers, or median planting removal) and construction impacts that are proposed?

Certain project improvements can be of special interest to local citizens, causing a heightened level of public concern, and requiring a more focused visual analysis.

Moderate Level of Concern (3 points) ▼

Are there federally, state, locally designated scenic or historic resources, or other visual resources within the project area of visual effect (i.e., viewshed)?

For example: protected viewsheds, visually sensitive public use areas, national historic/scenic trails, historic sites or structures, scenic designated viewpoints, wild and scenic rivers, state scenic highways or federal scenic byways, or potential visual resources such as stands of trees, rock outcroppings, etc.

One potential visual resource (2 points) ▼

Will the project sponsor or public benefit from a more detailed visual analysis in order to help reach consensus on a course of action to address potential visual impacts?

Consider the proposed project features, possible visual impacts, and probable environmental commitments.

No Benefit (1 point) ▼

Will the project likely require design changes to reduce the extent of visual resource impacts?

Consider design changes and enhancements such as realignment, additional alignment alternatives, vertical profile adjustments, extensive landscaping, architectural treatment, color and texture treatments and/or lighting of aboveground structures.

Minimal design changes (2 points) ▼

Assumptions/Issues

Assumptions/Issues

Calculate Total

[It is recommended that you print a copy of these calculations for the project file.](#)

Project Score: 27

Select An Outline Based Upon Project Score

The total score will indicate the recommended VIA level for the project. In addition to considering

circumstances relating to any one of the 12 questions that would justify elevating the VIA level, also consider any other project factors that would influence level selection.

Score 12-18 VIA Questionnaire

No visual resource related regulatory requirements. No or negligible visual changes to the environment are proposed. None or minimal public concern has been identified. This Questionnaire with rationale for selected responses to questions in the available spaces after each question along with a statement of no visual resource impact is appropriate and provides a sufficient rationale why a technical study is not required.

Score 19-28 VIA Memorandum

Very limited visual resource related regulatory requirements. Minor visual changes to the environment are proposed. Minor public concern from the public may be expected. A VIA Memorandum is appropriate in this case. The VIA Memorandum should briefly describe project features, impacts and any environmental commitment measures. Visual simulations are not necessary. Go to the Directions for using and accessing VIA Memorandum Annotated Outline ([website link](#)).

Score 29-38 Standard VIA Report

Several visual resource related regulatory requirements. Moderately noticeable visual changes to the environment are proposed. Moderate public concern may be expected. A fully developed Standard VIA Report is appropriate. The report should describe in detail the project's visual attributes, its visual impact and potential environmental commitment measures. Visual simulations are recommended. This report will likely receive public review. Go to the Directions for using and accessing the Standard VIA Annotated Outline ([website link](#)).

Score 39-48 Advanced VIA Report

Extensive visual resource related regulatory requirements and clearly noticeable changes to the environment are proposed. Moderate to high public concern may be expected. A fully developed Advanced VIA Report is appropriate. The report should describe in detail and numerically score the project's visual change and sensitivity, its visual impact and any environmental commitments proposed. Visual simulations are required. It is appropriate to alert the Project Development Team to the potential for highly adverse impacts and to consider project alternatives to avoid those impacts. This technical study will receive close public review. Go to the Directions for using and accessing the Advanced VIA Annotated Outline ([website link coming soon](#)).

Statewide Campaigns

- ▶ [ADA Access](#)
- ▶ [Adopt-A-Highway](#)
- ▶ [Amber Alert](#)
- ▶ [Be Work Zone Alert](#)
- ▶ [Cal OES: Power Outage and Fire Recovery Resources](#)
- ▶ [California Climate Investments](#)
- ▶ [California Connected](#)
- ▶ [California Transportation Plan 2050](#)

▶ [CAL FIRE](#)

▶ [Clean California](#)

▶ [Energy Upgrade](#)

▶ [Go Safely California](#)

▶ [HeatReadyCA.com](#)

▶ [Move Over Law](#)

▶ [REAL ID](#)

▶ [Save Our Water](#)

▶ [Stormwater Education Campaign](#)

▶ [Tenant and Landlord Resources](#)

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Appendix B:
Road Construction Emissions Model Results

PROJECT: Lanana Creek Detention

DATE: 01/22/20

Summary of Project Emissions and Consumption															
	TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	N2O	BC	HFC	CO2e	Diesel Fuel	Gasoline Fuel	Electricity
Daily Average (Bd/day; metric tons CO2e/day; gal fuel/day; kWh electricity/day)	0.605	0.568	2.800	3.158	0.520	0.239	840	0.019	0.045	0.035	0.025	0.41	29	10	2,889
Maximum Daily Average (Mtd/day; metric tons CO2e/day; gal fuel/day; kWh electricity/day)	1.197	1.119	8.652	7.679	2.253	0.688	1768	0.049	0.081	0.059	0.052	0.85	67	22	7,150
Annual Average (ft/year; metric tons CO2e/year; gal fuel/year; kWh electricity/year)	0.650	0.556	0.277	0.313	0.551	0.024	83	0.002	0.504	0.003	0.002	81	5.664	1.980	871,964

Project Total Emissions and Consumption (tons; metric tons CO2e; gal fuel; kWh electricity)															
Source	TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	N2O	BC	HFC	CO2e	Diesel Fuel	Gasoline Fuel	Electricity
On-Road	0.007	0.006	0.085	0.087	0.001	0.001	87	0.001	0.008	0.000	0.005	88	4,345	3,960	1,143,007
Off-Road	0.113	0.107	0.470	0.538	0.041	0.040	79	0.003	0.001	0.007	-	75	6,982	-	-
Area-Wide Fugitive Dust	-	-	-	-	0.051	0.005	-	-	-	-	-	-	-	-	-
Painting and Asphalt Application	0.005	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-
Project Total	0.120	0.112	0.554	0.625	0.103	0.047	166	0.004	0.009	0.007	0.005	163	11,328	3,960	1,143,927

Total Emissions and Consumption by Operation (tons; metric tons CO2e; gal fuel; kWh electricity)															
Project Phases	TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	N2O	BC	HFC	CO2e	Diesel Fuel	Gasoline Fuel	Electricity
Land Clearing/Grubbing	0.001	0.001	0.007	0.008	0.016	0.002	2	0.000	0.000	0.000	0.000	2	156	32	9,794
Roadway Excavation & Removal	0.010	0.009	0.070	0.065	0.020	0.006	15	0.000	0.001	0.001	0.000	15	1,137	215	63,112
Structural Excavation & Removal	0.012	0.011	0.036	0.060	0.019	0.005	19	0.000	0.001	0.001	0.001	18	1,277	459	127,843
Base/Subbase/Imported Borrow	0.024	0.022	0.173	0.154	0.027	0.013	35	0.001	0.001	0.001	0.001	34	2,673	512	136,146
Structure Concrete	0.055	0.052	0.180	0.227	0.014	0.014	59	0.001	0.003	0.003	0.002	58	3,947	1,530	401,639
Paving	0.004	0.004	0.025	0.029	0.002	0.002	6	0.000	0.000	0.000	0.000	6	428	115	46,890
Drainage/Environment/Landscaping	0.006	0.006	0.029	0.037	0.003	0.003	8	0.000	0.000	0.001	0.000	7	534	152	58,233
Traffic Signalation/Signage/Striping/Painting	0.007	0.006	0.034	0.047	0.003	0.002	22	0.000	0.002	0.000	0.001	22	1,175	944	300,280
Other Operation	0.003	0.003	0.003	0.003	0.003	0.000	0	0.000	0.000	0.000	0.000	0	-	-	0
Total	0.120	0.112	0.554	0.625	0.103	0.047	166	0.004	0.009	0.007	0.005	163	11,328	3,960	1,143,927

Project Average Daily Emissions and Consumption (lb/day; m)							
TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4
0.605	0.568	2.800	3.158	0.520	0.239	840	0.019
Project Maximum*	1.197	1.119	8.652	7.679	2.253	0.688	0.049

* The overall project maximum average daily value is the largest of either a single operation's average daily value or, when operations on detail, contributions to the project maximum average daily value by operation are indicated by red font.

Average Daily Emissions and Consumption by Operation (lb/day)							
TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4
0.400	0.424	2.459	2.588	0.263	0.088	695	0.017
0.810	0.759	5.997	5.170	1.603	0.501	1200	0.032
0.337	0.318	0.993	1.664	0.525	0.143	522	0.010
1.197	1.119	8.652	7.679	2.253	0.688	1768	0.049
0.749	0.707	2.450	3.086	0.191	0.186	805	0.018
0.571	0.537	3.281	3.877	0.264	0.259	797	0.019
0.252	0.236	1.194	1.493	0.113	0.110	307	0.007
0.318	0.293	1.626	2.240	0.119	0.117	1064	0.012
0.003	0.003	0.003	0.003	0.000	0.000	0	0.000
Highest across Operations	1.197	1.119	8.652	7.679	2.253	0.688	0.049

Summary by Year		Total Emissions and Consumption by Year (tons; metric tons CO ₂ ; gal fuel; kWh electricity)														
Year	TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	N2O	BC	HFC	CO _{2e}	Diesel Fuel	Gasoline Fuel	Electricity	
2015	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2016	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2017	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2018	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2019	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2020	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2021	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2022	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2023	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2024	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2025	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2026	0.076	0.072	0.381	0.405	0.089	0.034	102	0.002	0.005	0.004	0.003	100	7,315	2,030	503,337	
2027	0.043	0.041	0.173	0.220	0.014	0.014	64	0.001	0.004	0.003	0.002	63	4,013	1,029	640,590	
2028	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2029	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2030	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2031	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2032	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2033	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2034	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2035	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2036	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2037	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2038	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2039	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2040	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2041	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2042	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2043	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2044	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2045	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2046	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2047	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2048	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2049	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
2050	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0	-	-	-	
Total	0.120	0.112	0.554	0.625	0.103	0.047	166	0.004	0.009	0.007	0.005	163	11,328	3,060	1,143,927	
Summary	0.060	0.056	0.277	0.313	Average Emissions and Consumption per Year (tons/year; metric tons CO₂/year; gal fuel/year; kWh electricity/year)	0.051	0.024	83	0.002	0.004	0.003	0.002	81	5,664	1,530	571,964

Average Daily Emissions and Consumption by Year (lb/day; m									
Year	TOG	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	
2015	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2016	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2017	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2018	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2019	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2020	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2021	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2022	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2023	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2024	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2025	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2026	0.095	0.053	3.464	3.684	0.809	0.306	931	0.023	
2027	0.492	0.462	1.970	2.502	0.158	0.155	726	0.014	
2028	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2029	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2030	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2031	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2032	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2033	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2034	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2035	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2036	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2037	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2038	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2039	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2040	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2041	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2042	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2043	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2044	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2045	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2046	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2047	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2048	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2049	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
2050	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	
Total	0.605	0.568	2.850	3.158	Average Emissions and Consumption per Day (lb/day; m	0.626	0.239	840	0.919

Appendix C: Natural Environment Study

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project



Natural Environment Study

Discussion of Biological Resources, Wetland Studies, Project Impacts, and Mitigation

Sacramento County, California

District 3 – SAC-99-14.3/14.4

EFIS Number: 0322000179

EA: 03-3J060

CML– 5479 (072)

October 2024



Natural Environment Study

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project

Sacramento County, California

District 3– SAC-99-14.3/14.4

EFIS Number: 0322000179

EA: 03-3J060


CML – 5479 (072)

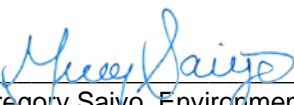
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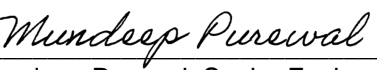
STATE OF CALIFORNIA

Department of Transportation

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List of Acronyms

°F	Fahrenheit
BO	Biological Opinion
BSA	Biological Study Area
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFG	California Fish and Game
CFR	Code of Federal Regulations
CGP	Construction General Permit
City	City of Elk Grove
CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CWA	Clean Water Act
EO	Executive Order
EPA	Environmental Protection Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highways Administration
GGG	Giant garter snake
IPaC	Information for Planning and Consultation
LCIRT	Laguna Creek Inter-Regional Trail System
MBTA	Migratory Bird Treaty Act
MS4	Municipal Separate Storm Sewer System
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NMFS	National Marine Fisheries Service
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resource Conservation Service
NWPT	Northwestern pond turtle
OHWM	Ordinary High-Water Mark
Project	Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
RWQCB	Regional Water Quality Control Board
SR	State Route
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TMDLs	Total Maximum Daily Load
U.S.	United States
USACE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Service

Summary

The City of Elk Grove (City), in cooperation with the California Department of Transportation (Caltrans), proposes to construct the final segment of the Laguna Creek Inter-Regional Trail System (LCIRT). The Project is needed to provide additional opportunities to utilize active modes of transportation and reduce the number of trips in motorized vehicles within the City of Elk Grove, as part of the Laguna Creek Inter-Regional Trail Crossing at State Route (SR) 99 Project (Project).

This Natural Environment Study (NES) provides a review and evaluation of the potential impacts to threatened, endangered, listed, or special-status species and protected habitat resources as a result of the proposed Project. Field surveys were conducted within the Biological Study Area (BSA), which encompasses the Project area, with an additional approximate 25-foot buffer around the length of the Project area.

During biological survey efforts, six habitat types were observed within the BSA, including disturbed/urban, annual grassland, perennial creek, emergent wetland, seasonal wetland, and seasonal wetland swale habitats. Existing roads SR-99, W Stockton Boulevard, and E Stockton Boulevard pass over Laguna Creek, a perennial stream that divides the BSA from north to south.

Under Section 404 and Section 401 of the Clean Water Act (CWA), certain surface waters are regulated by the United States (U.S.) Army Corps of Engineers (USACE) and the Regional Water Quality Control Board (RWQCB). The California Department of Fish and Wildlife (CDFW) also claims jurisdiction over the bed, bank and channel of waters and associated riparian vegetation. Two jurisdictional stream channels are present within the BSA: including Laguna Creek and Whitehouse Creek, totaling approximately 5.78 acres. The Project would result in impacts to these perennial creeks including a net total of approximately 0.27 acres of temporary impacts to allow for construction access, and negligible permanent net impacts of 0.004 acres as a result of fill associated with the multi-use trail. Furthermore, temporary and permanent impacts to seasonal wetland, emergent wetland and seasonal wetland swale habitat are anticipated due to the proposed trail alignment east of East Stockton Boulevard.

For the purposes of this analysis, “special-status species” includes any species that has been afforded special recognition by federal, state or local resources agencies (e.g., U.S. Fish and Wildlife Service [USFWS], CDFW, etc.), and/or resource conservation organizations (e.g., California Native Plant Society [CNPS]).

Literature research, habitat assessments, and biological surveys determined that the BSA was potentially suitable for the following special-status species: burrowing owl (*Athene cunicularia*), song sparrow “Modesto population” (*Melospiza melodia pop. 1*), Swainson’s hawk (*Buteo swainsoni*), tricolored blackbird (*Agelaius tricolor*), White-tailed kite (*Elanus leucurus*), yellow-headed blackbird (*Xanthocephalus xanthocephalus*), giant garter snake ([GGS]; *Thamnophis gigas*), northwestern pond turtle ([NWPT] *Actinemys marmorata*), alkali-sink goldfields (*Lasthenia chrysantha*), Boggs Lake hedge-hyssop (*Gratiola heterosepala*), dwarf downingia (*Downingia pusilla*), legenere (*Legenere limosa*), Sanford’s arrowhead (*Sagittaria sanfordii*), and woolly rose-mallow (*Hibiscus lasiocarpus var. occidentalis*). The Project will impact annual grassland habitat, suitable for special-status species such as burrowing owl, including approximately 1.31 acres of temporary impacts and approximately 0.43 acres of permanent impacts. The Project is not anticipated to have take of the any state-listed species and therefore coordination with CDFW under Section 2081 Incidental Take Permit is not required. However, Section 7 consultation with USFWS will be required for effects to federally listed species that have potential to occur onsite.

The following permits will be obtained for the proposed Project prior to construction: Section 404 Individual Permit from the USACE, Section 401 Water Quality Certification from RWQCB, National Pollutant Discharge Elimination System (NPDES) Permit from RWQCB, and Section 1602 Streambed Alteration Agreement from the CDFW. The proposed Project is subject to compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA); the City is the CEQA lead agency and Caltrans is the NEPA lead agency.

Chapter 1. Introduction

This NES was prepared for the proposed Project and describes the existing biological environment within the BSA of the proposed Project.

1.1 Project History

The Project is centrally located in the City of Elk Grove, within Section 26, Township 7 North, Range 5 East. It is within the United States Geological Survey (USGS) Florin 7.5-minute topographic quadrangle. The Project area is perpendicular to SR 99 and extends ~1,300 feet east of East Stockton Boulevard and ~550 feet west of West Stockton Boulevard (**Figure 1. Project Vicinity, Figure 2. Project Location**).

The proposed Project would develop trail improvements through a portion of the Phase 1 Lower Laguna Flood Control Project area (Phase 1 as defined within the 1999 Biological Opinion Amendment; U.S. Department of the Interior 1999). Portions of the Project that are currently covered by Deed Restrictions required for the Lower Laguna Flood Control Project are discussed in Section 2.1.3.

1.1.1 Project Purpose and Need

Purpose

The purpose of the Project is to construct the final segment of, and complete the City's LCIRT system.

Need

This Project is needed to provide additional opportunity to utilize active modes of transportation and reduce the number of trips in motorized vehicles.

1.2 Project Description

The City, in cooperation with Caltrans, proposes to construct a segment of the LCIRT which includes a pedestrian overcrossing spanning SR 99, East Stockton Boulevard, and West Stockton Boulevard; a multi-use trail east of the pedestrian overcrossing; and a pedestrian bridge spanning Whitehouse Creek.

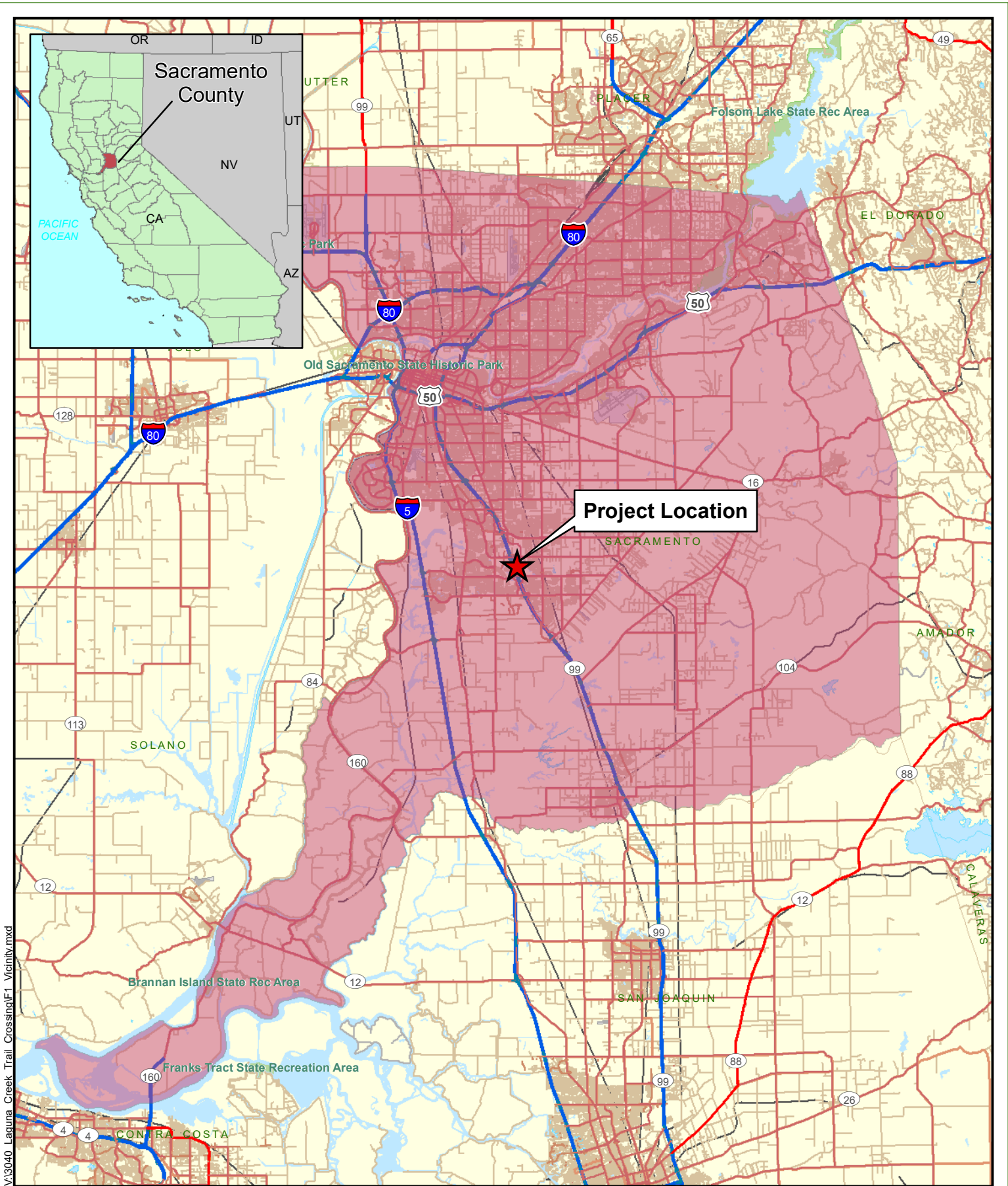
The City has a network of multi-use trails that are located throughout the City, including the LCIRT system. The LCIRT provides users access to schools, employment, commercial centers, recreational amenities, and community facilities; however, a significant gap in the system is created by the barrier of SR 99 where users are forced off the trail and onto local roads that lack adequate safe pedestrian and bicycle facilities. The Project will close that gap, providing a safe route across the barrier by constructing a pedestrian overcrossing over SR 99, East Stockton Boulevard, and West Stockton Boulevard. Additionally, as part of the gap closure, the Project will construct a multi-use trail east of the overcrossing and a pedestrian bridge over Whitehouse Creek, thereby completing the pedestrian/bicycle facilities. The purpose of the Project is to construct the final segment of and complete the City's LCIRT. This Project is needed to provide additional opportunity to utilize active modes of transportation and reduce the number of trips in motorized vehicles.

The pedestrian overcrossing of SR 99, West Stockton Boulevard, and East Stockton Boulevard is proposed as a concrete structure approximately 800-feet-long (**Figure 3. Project Features**).

The pedestrian bridge over Whitehouse Creek is proposed as a prefabricated truss. Lastly, the multi-use trail would be a Class I bikeway.

Right-of-way acquisitions and temporary construction easements are needed where the multi-use trail passes through privately-owned parcels and will be obtained during final design of the Project. Below ground and aerial utility relocations are anticipated. Additionally, a Caltrans Encroachment permit will be required due to the work over SR 99, which is a Caltrans owned facility. Construction is anticipated to start in 2026 and is anticipated to last approximately 18 months.

This Project is funded through both local and federal funds and is subject to compliance with CEQA and NEPA. The lead agency for CEQA compliance is the City and the NEPA lead agency is Caltrans.



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Source: ESRI 2008; Dokken Engineering/6/21/2023; Created By: ahale

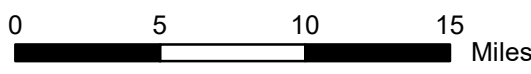


FIGURE 1
Project Vicinity
 CML-5479(072)
 Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
 City of Elk Grove, Sacramento County, California

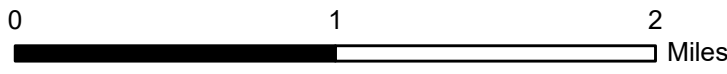
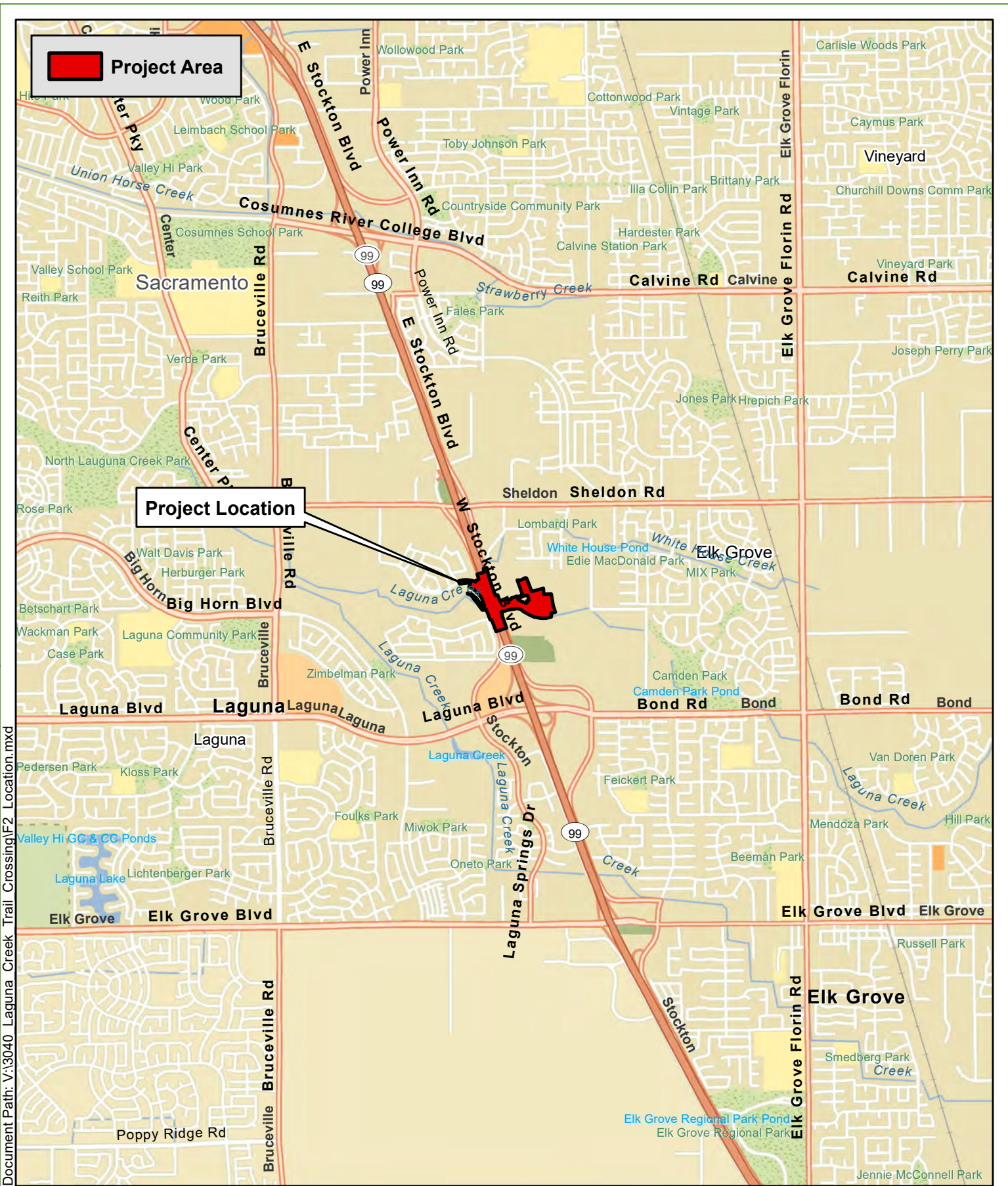
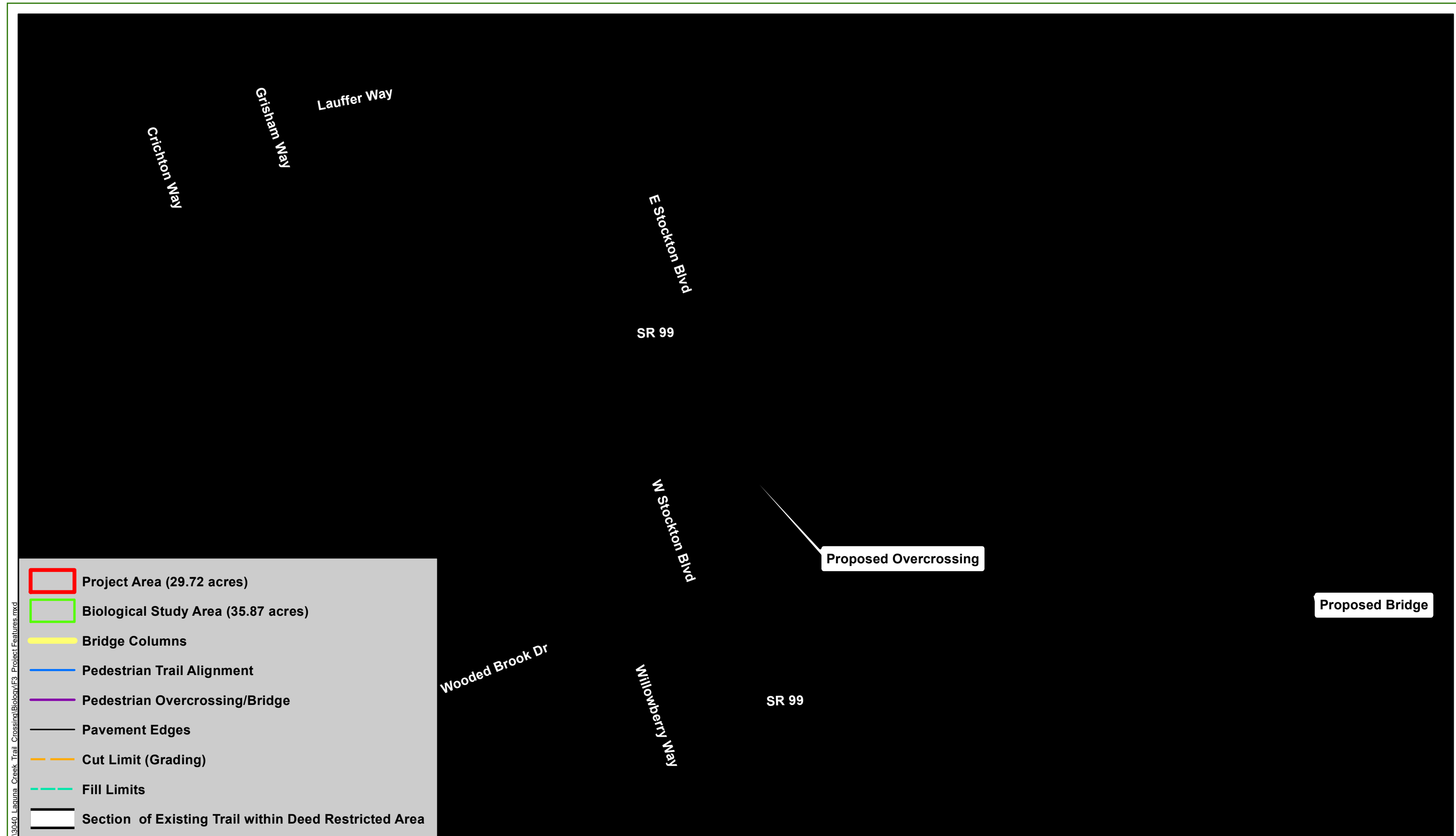


FIGURE 2
Project Location

CLM-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California



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Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd



FIGURE 3
Project Features

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

Chapter 2. Study Methods

2.1 Regulatory Requirements

This section describes the general Federal, state, and local plans, policies, and laws that are relevant to biological resources within the BSA. Applicable approvals that could be required before construction of the Project are provided in Chapter 5.

2.1.1 Federal Regulations

National Environmental Policy Act

The NEPA provides an interdisciplinary framework for environmental planning by Federal agencies and contains action-forcing procedures to ensure that Federal agency decision makers take environmental factors into account. NEPA applies when a Federal agency proposes an action, grants a permit, or agrees to fund or otherwise authorize any other entity to undertake an action that could possibly affect environmental resources. Caltrans is the designated NEPA lead agency for the proposed Project acting under delegation from the Federal Highways Administration (FHWA).

Federal Endangered Species Act

The Federal Endangered Species Act (FESA) of 1973 (16 United States Code Section 1531 et seq.) provides for the conservation of endangered and threatened species listed pursuant to Section 4 of the Act (16 U.S.C. section 1533) and the ecosystems upon which they depend. These species and resources have been identified by USFWS and the National Marine Fisheries Service (NMFS).

The FESA prohibits the “take” of endangered or threatened wildlife species. “Take” is defined to include harassing, harming, pursuing, hunting, shooting, wounding, killing, trapping, capturing, or collecting wildlife species or any attempt to engage in such conduct (FESA Section 3 [(3)(19)]). Harm is further defined to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns (50 CFR §17.3). Harass is defined as actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns (50 CFR §17.3). Actions that result in take can result in civil or criminal penalties.

Federal actions that may affect federally threatened, endangered, or proposed listed species and proposed or designated critical habitat are required to facilitate consultation with the USFWS or the NMFS under Section 7 (a)(2) of the Federal Endangered Species Act (16 U.S. C 1536(c)).

Clean Water Act

The CWA was enacted as an amendment to the Federal Water Pollutant Control Act of 1972, which outlined the basic structure for regulating discharges of pollutants to Waters of the U.S. The CWA serves as the primary Federal law protecting the quality of the nation’s surface waters, including lakes, rivers, and coastal wetlands. The CWA empowers the U.S. Environmental Protection Agency (EPA) to set national water quality standards and effluent limitations and includes programs addressing both point-source and non-point-source pollution. Point-source pollution originates or enters surface waters at a single, discrete location, such as an outfall structure or an excavation or construction site. Non-point-source pollution originates over a

broader area and includes urban contaminants in stormwater runoff and sediment loading from upstream areas. The CWA operates on the principle that all discharges into the nation's waters are unlawful unless they are specifically authorized by a permit; permit review is the CWA's primary regulatory tool.

Section 303(d)

Under the mandate of Section 303(d) of the CWA, the RWQCB is required to formulate a list of surface water bodies that exceed applicable water quality standards. Subsequently, the RWQCB is required to describe the impairment sources and prioritize these water bodies to develop Total Maximum Daily Loads (TMDLs). The current list was approved by the EPA on May 11th, 2022. An integrated report map published by the State Water Resources Control Board was used to determine Laguna Creek is 303(d) listed with "Toxicity" and "Benthic Community Effects".

Section 401

The RWQCB has jurisdiction under Section 401 of the CWA and regulates any activity which may result in a discharge to surface waters. Typically, the areas subject to jurisdiction of the RWQCB coincide with those of USACE (i.e., waters of the U.S. including wetlands). The RWQCB also asserts authority over "Waters of the State" under waste discharge requirements pursuant to the Porter-Cologne Water Quality Control Act. The proposed Project is located within the jurisdiction of the Central Valley RWQCB and would require a Clean Water Certification from the Central Valley RWQCB.

Section 402

The Central Valley RWQCB is a designated municipal permittee under the EPA's NPDES, which regulates stormwater flows into natural water bodies. The NPDES regulations require permitted areas to implement specific activities and actions to eliminate or control stormwater pollution (RWQCB, 2018).

The U.S. EPA defines a Municipal Separate Storm Sewer System (MS4) as any conveyance or system of conveyances (roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, human-made channels, and storm drains) owned or operated by a state, city, town, county, or other public body having jurisdiction over storm water, that are designed or used for collecting or conveying storm water. As part of the NPDES program, U.S. EPA initiated a program requiring that entities having MS4s apply to their local RWQCBs for storm water discharge permits. The City is permitted as an MS4 under the Central Valley Region wide MS4 (Order No. R5-2016-0040), adopted by the RWQCB on June 23, 2016, therefore, the Project would be subject to the requirements of this permit.

Construction General Permit ([CGP]; Order No. 2022-0057-DWQ, was adopted on September 8, 2022 and became effective September 1, 2023. The permit regulates storm water discharges from construction sites which result in a land disturbance of equal to or greater than one acre, and/or are smaller sites that are part of a larger common plan of development. For all projects subject to the CGP, applicants are required to develop and implement an effective Storm Water Pollution Prevention Plan (SWPPP).

By law, all storm water discharges associated with construction activity, including, but not limited to, clearing, grading grubbing or excavation, or any other activity that results in a land disturbance of equal to or greater than one acre must comply with the provisions of the CGP. Construction activity that results in soil disturbances of less than one acre is subject to this CGP if there is potential for significant water quality impairment resulting from the activity as determined by the RWQCB. Operators of regulated construction sites are required to develop a Storm Water

Pollution Prevention Plan; to implement sediment, erosion, and pollution prevention control measures; and to obtain coverage under the CGP.

The CGP separates projects into Risk Levels 1, 2, or 3. Risk levels are determined during the planning and design phases and are based on potential erosion and transport to receiving waters. Requirements apply according to the Risk Level determined. For example, a Risk Level 3 (highest risk) project would require compulsory storm water runoff pH and turbidity monitoring, and pre- and post-construction aquatic biological assessments during specified seasonal windows. The Project is a Risk Level 2, with a low sediment risk and high receiving water risk.

Section 404

Section 404 of the CWA establishes a program to regulate the discharge of [dredged](#) or [fill](#) material into [waters of the United States](#), including wetlands. Activities in waters of the United States regulated under this program include fill for development, water resource projects (such as dams and levees), infrastructure development (such as highways and airports) and mining projects. Section 404 requires a permit before dredged or fill material may be discharged into waters of the United States, unless the activity is [exempt from Section 404 regulation](#) (e.g., certain farming and forestry activities).

On May 25, 2023, the U.S. Supreme Court issued its ruling in *Sackett v. Environmental Protection Agency* (2023) 598 U.S. 651 (Sackett), holding the Clean Water Act's definition of "waters of the United States" extends to only those "wetlands with a continuous surface connection to bodies that are 'waters of the United States' in their own right," so that they are "indistinguishable" from those waters. Following the Court's decision, the Clean Water Act covers only adjoining wetlands, a reading that excludes wetlands separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like that had previously been protected.

The Court's opinion in *Sackett* also endorsed language from *Rapanos v. U.S.* (2006) 547 U.S. 715 (Rapanos), in which four justices issued a plurality opinion holding that the scope of the Clean Water Act covers "only those relatively permanent, standing or continuously flowing bodies of water 'forming geographic[al] features' that are described in ordinary parlance as 'streams, oceans, rivers, and lakes.'" The *Sackett* decision was nominally unanimous, with no justice supporting the continued application of the "significant nexus" test articulated by Justice Kennedy's concurrence in *Rapanos*.

Magnuson-Stevens Fishery Conservation and Management Act of 1976

The Magnuson-Stevens Fishery Conservation and Management Act of 1976 was established to conserve and manage fishery resources found off the coast, as well as anadromous species and Continental Shelf fishery resources of the U.S., by exercising (a) sovereign rights for the purposes of exploring, exploiting, conserving, and managing all fish within the exclusive economic zone established by Presidential Proclamation 5030, dated March 10, 1983, and (b) exclusive fishery management authority beyond the exclusive economic zone over such anadromous species, Continental Shelf fishery resources, and fishery resources in special areas.

Executive Order 13186: Migratory Bird Treaty Act

The Executive Order (EO) 13186 (signed January 10, 2001) directs each Federal agency taking actions that could adversely affect migratory bird populations to work with USFWS to develop a Memorandum of Understanding that will promote the conservation of migratory bird populations.

Protocols developed under the Memorandum of Understanding will include the following agency responsibilities:

- avoid and minimize, to the maximum extent practicable, adverse impacts on migratory bird resources when conducting agency actions;
- restore and enhance habitat of migratory birds, as practicable; and
- prevent or abate the pollution or detrimental alteration of the environment for the benefit of migratory birds, as practicable.

The EO is designed to assist Federal agencies in their efforts to comply with the Migratory Bird Treaty Act (MBTA) (50 Code of Federal Regulations [CFR] 10 and 21) and does not constitute any legal authorization to take migratory birds. Take is defined under the MBTA as “the action of or attempt to pursue, hunt, shoot, capture, collect, or kill” (50 CFR 10.12) and includes intentional take (i.e., take that is the purpose of the activity in question) and unintentional take (i.e., take that results from, but is not the purpose of, the activity in question).

Executive Order 11990: Protection of Wetlands

EO 11990 (signed May 24, 1974) established a national policy to avoid adverse impacts on wetlands whenever there is a practicable alternative. The U. S. Department of Transportation promulgated Order 5660.1A in 1978 to comply with this direction. On federally funded projects, impacts on wetlands must be identified. Alternatives that avoid wetlands must be considered. If wetland impacts cannot be avoided, then all practicable measures to minimize harm must be included.

Executive Order 13112: Prevention and Control of Invasive Species

EO 13112 (signed February 3, 1999) directs all Federal agencies to prevent and control introductions of invasive species in a cost-effective and environmentally sound manner. The EO and directives from the FHWA require consideration of invasive species in NEPA analyses, including their identification and distribution, their potential impacts, and measures to prevent or eradicate them.

2.1.2 State Regulations

California Environmental Quality Act

CEQA (California Public Resource Code § 21000 et seq) is a statute that requires state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible. CEQA applies to certain activities of state and local public agencies. A public agency must comply with CEQA when it undertakes an activity defined by CEQA as a "project." A project is an activity undertaken by a public agency or a private activity which must receive some discretionary approval (meaning that the agency has the authority to deny the requested permit or approval) from a government agency which may cause either a direct physical change in the environment or a reasonably foreseeable indirect change in the environment.

Proposals for physical development in California are subject to the provisions of CEQA, as are many governmental decisions which do not immediately result in physical development (such as adoption of a general or community plan). Development project which requires a discretionary

governmental approval will require at least some environmental review pursuant to CEQA, unless an exemption applies. The environmental review required imposes both procedural and substantive requirements. A project may not be approved as submitted if feasible alternatives or mitigation measures are able to substantially lessen the significant environmental effects of the project. The City is the CEQA lead agency for the proposed Project.

California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game [CFG] Code Section 2050 et seq.) requires CDFW to establish a list of endangered and threatened species (Section 2070) and to prohibit the incidental taking of any such listed species except as allowed by the Act (Sections 2080-2089). In addition, CESA prohibits take of candidate species (under consideration for listing).

CESA also requires CDFW to comply with CEQA (Pub. Resources Code Section 21000 et seq.) when evaluating Incidental Take Permit applications (CFG Code Section 2081(b) and California Code Regulations, Title 14, section 783.0 et seq.), and the potential impacts the Project or activity for which the application was submitted may have on the environment. CDFW's CEQA obligations include consultation with other public agencies which have jurisdiction over the proposed Project or activity [California Code Regulations, Title 14, Section 783.5(d)(3)]. CDFW cannot issue an Incidental Take Permit if issuance would jeopardize the continued existence of the species [CFG Code Section 2081(c); California Code Regulations, Title 14, Section 783.4(b)].

The take prohibition of CESA specifically states that no person shall import into this state, export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the commission determines to be an endangered species or a threatened species, or attempt any of those acts (Fish & G. Code, § 2080; Cal. Code Regs., tit. 14, § 783.1). In this context, the term "take" is defined by Fish and Game Code section 86 as hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill. Penalties for violating section 2080 range from \$25,000 to \$50,000 for each violation, one-year imprisonment, or both fine and imprisonment (Fish & G. Code, § 12008.1).

Section 1602: Streambed Alteration Agreement

Under CFG Code 1602, public agencies are required to notify CDFW before undertaking any Project that will divert, obstruct, or change the natural flow, bed, channel, or bank of any river, stream, or lake. Preliminary notification and Project review generally occurs during the environmental process. When an existing fish or wildlife resource may be substantially adversely affected, CDFW is required to propose reasonable Project changes to protect the resources. These modifications are formalized in a Streambed Alteration Agreement that becomes part of the plans, specifications, and bid documents.

Section 3503 and 3503.5: Birds and Raptors

CFG Code Section 3503 prohibits the destruction of bird nests and Section 3503.5 prohibits the killing of raptor species and destruction of raptor nests. Trees and shrubs are present in and adjacent to the Project and could contain nesting sites.

Section 3513: Migratory Birds

CFG Code Section 3513 prohibits the take or possession of any migratory non-game bird as designated in the MBTA or any part of such migratory non-game bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

Porter Cologne Water Quality Control Act

California's Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. This Act requires a "Report of Waste Discharge" for any discharge of waste (liquid, solid, or gaseous) to land or surface waters that may impair beneficial uses for surface and/or groundwater of the State. It predates the CWA and regulates discharges to waters of the State. Waters of the State include more than waters of the U.S., including groundwater and surface waters not considered waters of the U.S. Additionally, the act prohibits discharges of "waste" as defined; this definition is broader than the CWA definition of "pollutant". Discharges under the Porter-Cologne Act are permitted by Waste Discharge Requirements and may be required even when the discharge is already permitted or exempt under the CWA.

The State Water Resources Control Board (SWRCB) and RWQCB are responsible for establishing water quality standards (objectives and beneficial uses) required by the CWA and regulating discharges to ensure compliance with water quality standards. Details regarding water quality standards in a Project area are contained in the applicable RWQCB Basin Plan. In California, Regional Boards designate beneficial uses for all water body segments in their jurisdictions, and then set criteria necessary to protect these uses. Consequently, water quality standards developed for particular water segments are based on designated use and vary depending on such use. The SWRCB identifies waters failing to meet standards for specific pollutants, which are then state listed in accordance with CWA Section 303(d). If a state determines that waters are impaired for one or more constituents and the standards cannot be met through point source or non-source point controls (NPDES permits or Waste Discharge Requirements), the CWA requires the establishment of TMDLs. TMDLs specify allowable pollutant loads from all sources (point, non-point, and natural) for a given watershed.

Regional Water Quality Control Boards

The SWRCB adjudicates water rights, sets water pollution control policy, and issues water board orders on matters of statewide application, and oversees water quality functions throughout the state by approving Basin Plans, TMDLs, and NPDES permits. RWQBs are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility.

2.1.3 Local Regulations

City of Elk Grove General Plan (As Amended)

The policies below are excerpted from the City of Elk Grove General Plan (as amended) (City of Elk Grove 2019). These policies are designed to guide conservation of native and non-native habitats, plants, and animals within the City's jurisdiction.

- Policy LU-3-22: Identify a mitigation program for critical habitat for special status species known to occur within the Study Areas. A proposed project determined to have a significant impact to habitat for special status species shall implement all feasible mitigation measures established in the program, including but not limited to land

dedication (which may be located either inside or outside the corresponding study area) or fee payment, or both.

- Policy PT-1-11: In land uses adjacent to natural open space areas, provide on-site landscaping as a transition to natural habitats to the extent feasible.
- Policy NR-1-2: Preserve and enhance natural areas that serve, or may potentially serve, as habitat for special-status species. Where preservation is not possible, require that appropriate mitigation be included in the project.
- Policy NR-1-3: Support the establishment of multipurpose open space areas to address a variety of needs, including but not limited to maintenance of agricultural uses, wildlife habitat, recreational open space, aesthetic benefits, and flood control. To the extent possible, lands protected in accordance with this policy should be in proximity to Elk Grove to facilitate use of these areas by Elk Grove residents, assist in mitigation of habitat loss within the City, and provide an open space resource close to the urbanized areas of Elk Grove.
- Policy NR-1-4: Avoid impacts to wetlands, vernal pools, marshland, and riparian (streamside) areas unless shown to be technically infeasible. Ensure that no net loss of wetland areas occurs, which may be accomplished by avoidance, revegetation, restoration on-site or through creation of riparian habitat corridors, or purchase of credits from a qualified mitigation bank.
- Policy NR-1-5: Recognize the value of naturally vegetated stream corridors, commensurate with flood control and public desire for open space, to assist in removal of pollutants, provide native and endangered species habitat and provide community amenities.
- Policy NR-1-6: Encourage the retention of natural stream corridors, and the creation of natural stream channels where improvements to drainage capacity are required.
- Policy NR-1-7: Consider the adoption of Habitat Conservation Plans to protect rare, threatened, or endangered species.
- Policy NR-1-9: Encourage development clustering where it would facilitate on-site protection of woodlands, grasslands, wetlands, stream corridors, scenic areas, or other appropriate features such as active agricultural uses and historic or cultural resources under the following conditions and requirements. Clustering shall not be allowed in the Rural Area.
- Policy NR-2-1: Preserve large native oak and other native tree species as well as large nonnative tree species that are an important part of the City's historic and aesthetic character. When reviewing native or non-native trees for preservation, consider the following criteria:
health of tree, safety hazards posed by the tree, suitability for preservation in place, biological value, aesthetic value, shade benefits, water quality benefits, runoff reduction benefits, and air quality benefits (pollutant reduction).
- Policy NR-2-5: Ensure that trees that function as an important part of the City's or a neighborhood's aesthetic character or as natural habitat on public and private land are retained or replaced to the extent possible during the development of new structures, roadways (public and private, including roadway widening), parks, drainage channels, and other uses and structures.

City of Elk Grove Swainson's Hawk Program

In 2003, the City established and adopted Chapter 16.130 (Swainson's Hawk Impact Mitigation Fees) of the Elk Grove Municipal Code, which establishes mitigation policies tailored for projects in Elk Grove that have been determined through the CEQA process to result in a "potential

significant impact” on Swainson’s hawk foraging habitat (City of Elk Grove, 2020). Chapter 16.130, often referred as the “Swainson’s Hawk Code,” serves as a conservation strategy that is achieved through the selection of appropriate replacement lands and through management of suitable habitat value on those lands in perpetuity. To mitigate for the loss of foraging habitat in the City, the Swainson’s Hawk Code allows a project applicant to provide mitigation by one or a combination of options, including:

1. *Provide direct land preservation to the City* by fee title or conservation easement on a per acre basis (one-to one mitigation ratio), including an endowment for easement monitoring. Interests in mitigation lands are to be held in trust by an entity acceptable to the City and/or the City in perpetuity.
2. *Pay Swainson's Hawk impact mitigation fee* on a per acre basis of habitat impacted. The current fee is listed in the Development Related Fee Booklet, which the City utilizes the fees collected to mitigate the project's impacts by acquiring land in fee title and/or conservation easements on suitable Swainson's hawk foraging habitat.; Swainson's Hawk payment of a mitigation fee is limited to projects less than 40 acres.
3. *Purchase mitigation credits* at an accredited mitigation bank that is acceptable to the City and California Department of Fish and Game.
4. *Purchase credits from a property owner* with eligible credits for projects in Elk Grove that is acceptable to the City and California Department of Fish and Game.
5. *Provide other instruments* to preserve suitable habitat as determined by the California Department of Fish and Game.

Lower Laguna Flood Control Project

The USACE issued authorization under Section 404 of the Federal CWA (Regulatory ID Number 199500313) June 5, 1998 for the Lower Laguna Flood Control Project. The Lower Laguna Flood Control Project proposed to provide flood protection to neighboring upland areas by constructing a bypass channel, installing twin 72-inch pipes with outfalls, and an extension of a 60-inch pipeline across Laguna Creek, as well as the installation of a 60-inch pipe with outfall from the water quality ponds on the Park Meadows South site across Laguna Creek and discharging into the bypass channel (Permit). The Permit authorized the fill of 12.39 acres of waters of the U.S. Proposed mitigation included the creation of 23.75 acres of waters onsite plus offsite vernal pool mitigation as required by the October 29, 1996 Biological Opinion (USFWS File 1-1-96-F-51) issued by the USFWS.

The 1996 Biological Opinion (BO) included conservation measures addressing giant garter snake, as well as vernal pool tadpole shrimp and vernal pool fairy shrimp. Measures relevant to giant garter snake, in part, included preservation of onsite perennial marsh and creation of additional marsh acreage within the greater Project area. Conservation measures addressing vernal pool tadpole shrimp and vernal pool fairy shrimp included the payment of in-lieu fees to purchase 1.46 vernal pool preservation credits for effects to 0.73 acre of vernal pools and the corresponding loss of habitat for vernal pool invertebrates.

The USACE reinitiated Section 7 Consultation with the USFWS on May 15, 1998 in order to meet four objectives: a) to allow for restoring vernal pools concurrently with the phasing of the project; (b) to extend the deadlines for placing preservation areas under conservation easements; (c).to address the reduction in project-related wetland impacts; and (d) to remove the requirement of

placing rock refugia along Laguna Creek for giant garter snakes (HELIX Environmental Planning Inc. 2023).

According to the BO for the deed restricted parcel, recreational trails are permitted within the parcel if they are located outside of the northern project boundary, which is considered the north slope of the Laguna Creek Bypass Channel. Since the proposed trail will be north of the bypass channel, the Project would be in compliance with the BO. Also, the Project does not propose to fill or alter wetland habitat that may be suitable for GGS within the deed restricted parcel. Work within the deed restricted parcel will be limited to the area north of the Laguna Bypass Channel within a barren, developed area that provides little to no habitat suitability for GGS.

2.2 Studies Required

2.2.1 Literature Search

Prior to fieldwork, literature research was conducted through the following government databases; the USFWS Information for Planning and Consultation (IPaC) list (**Appendix A**), CDFW California Natural Diversity Database (CNDDDB) (**Appendix B**), the CNPS Electronic Inventory of Rare and Endangered Plants (**Appendix C**), and the NMFS (**Appendix D**) in order to identify habitats and special status species having the potential to occur within the BSA.

2.2.2 Field Reviews

Prior to field surveys, the BSA was defined as the Project impact area plus an approximate 25-foot buffer to facilitate construction access and capture potential biological resources adjacent to Project limits. Habitat assessment and analysis of historic occurrences were conducted to determine the potential for each of the species in the lists referenced above to occur within the BSA.

2.2.3 Survey Methods

Biological surveys and habitat assessment methods included walking meandering transects through the entire BSA, observing vegetation communities, compiling notes on observed flora and fauna, and assessing the potential for existing habitat to support sensitive plants and wildlife. All plant and wildlife observations were recorded and are discussed in Chapter 3.

2.3 Personnel and Survey Dates

General biological surveys and habitat assessments were conducted by Dokken Engineering biologists, Andrew Dellas and Scott Salembier on April 4, 2018, and Hanna Sheldon and Vincent Chevreuil on July 27, 2023, and December 1, 2023. Additionally, jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018, to identify jurisdictional resources present within the BSA. Lastly, focused rare plant surveys were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018, as well as Andrew Dellas and Scott Salembier on June 21, 2018, during the appropriate blooming season for species determined to have potential to occur within the BSA. During the July and December 2023 biological surveys, surveying biologists also confirmed the results of the 2018 jurisdictional delineations.

The surveys consisted of a general assessment of biological conditions of the Project site, with special attention given to sensitive plant and wildlife species that were determined by the literature assessment to have a potential of occurring within the Project vicinity. Methodology involved

walking meandering transects throughout the BSA and recording observed vegetation and wildlife species as well as categorizing existing habitat communities. Wetland delineations were conducted in accordance with technical methods outlined in the *USACE Wetlands Delineation Manual* (USACE 1987), *Regional Supplement to the USACE Wetland Delineation Manual: Arid West Region* (USACE 2008), and *A Field Guide to the Identification of the Ordinary High-Water Mark (OHWM) in the Arid West Region of the Western United States* (Lichvar 2008). The results of the delineation are included in the attached Aquatic Resources Delineation Report (**Appendix E**).

2.4 Agency Coordination and Professional Contacts

2.4.1 United States Fish and Wildlife

An official species list was obtained from USFWS IPac on May 21, 2018, to determine federally listed species that may have potential to occur in the Project vicinity. An updated USFWS species list was obtained on November 17, 2023, and May 9, 2024 (**Appendix A**).

2.4.2 California Department of Fish and Wildlife

An official species list was obtained from CDFW's CNDDDB on May 21, 2018, to determine state listed species that may have potential to occur in the Project vicinity. An updated CNDDDB species list was obtained on November 17, 2023 (**Appendix B**).

2.4.3 California Native Plant Society

On May 21, 2018, a nine-quadrangle list of plant species with potential to occur in the Project vicinity was obtained from the CNPS Inventory of Rare and Endangered Plants of California. An updated list was obtained on November 17, 2023 (**Appendix C**).

2.4.4 National Marine Fisheries Service

On May 21, 2018, a list of federally listed fish species with the potential to occur in the Project vicinity was obtained from the NMFS West Coast Region Species List. An updated NMFS list was obtained on November 17, 2023. An updated list was obtained July 15, 2024. (**Appendix D**).

2.5 Limitations That May Influence Results

Sensitive wildlife species with the potential to occur in the BSA may be cryptic (difficult to detect) or transient, migratory species. The population size and locations of sensitive species may fluctuate through time. Because of this, the data collected for this biological resource technical report represents a "snapshot" in time and may not reflect actual future conditions. The collection of biological field data is normally subject to environmental factors that cannot be controlled or reliably predicted. Consequently, the interpretation of field data must be conservative and consider the uncertainties and limitations imposed by the environment. However, due to the experience and qualifications of the consulting biologists involved in the surveys, this limitation is not expected to severely influence the results or substantially alter the findings.

Biological surveys, jurisdictional delineation, and focused rare plant surveys were conducted during appropriate weather and temperature conditions, and during specific blooming periods. No limitations were determined for the studies required.

Chapter 3. Results: Environmental Setting

3.1 Description of the Existing Physical and Biological Conditions

3.1.1 Study Area

The Project area, defined as the area of direct impact, is approximately 29.72 acres. Prior to field surveys, the BSA was defined as the area required for Project activities, plus an approximate 25-foot buffer to account for adjacent biological resources and potential changes in Project design. From north to south, the BSA measures approximately 1,600 feet and from east to west measures approximately 2,400 feet at its widest point. The total area of the BSA is approximately 35.87 acres (**Figure 3. Project Features**).

3.1.2 Physical Conditions

Regionally, the BSA is located adjacent to SR 99 and East Stockton Boulevard within the City of Elk Grove, in Sacramento County, California. The BSA occurs within the Sacramento Valley Floristic Province (Jepson 2023). Sacramento County experiences Mediterranean conditions including warm, dry summers and cool, wet winters. The average annual high temperature is approximately 74 degrees Fahrenheit (°F), and the average annual lows reach approximately 48°F, with up to 18.52 inches of precipitation annually (U.S. Climate Data 2023). The elevation of the BSA is approximately 25 feet above mean sea level. The soil types within the BSA include Bruella sandy loam with 0 to 2 percent slopes (30.8% of BSA), Madera loam with 0 to 2 percent slopes (38.0% of BSA), San Joaquin silt loam, leveled, with 0 to 1 percent slopes (1.5% slopes), and San Joaquin silt loam with 0 to 3 percent slopes (29.8% of BSA) (Natural Resource Conservation Service [NRCS] 2023; **Appendix F**).

3.1.3 Biological Conditions


Vegetation communities within the BSA include disturbed/urban, annual grassland, perennial creek, emergent wetland, seasonal wetland, and seasonal wetland swale habitats (**Figure 4. Vegetation Communities; Appendix G**). Plant and wildlife species observed within the BSA during the 2018 biological survey efforts were used to define habitat types based on composition, abundance, and cover (**Table 1. Species Observed**).


Disturbed/Urban

The disturbed/urban land cover type is defined as areas that have been subject to previous or ongoing disturbances such as along roadsides, trails, and parking lots. SR 99 and Stockton Boulevard East/West are also included in this land cover type. Mowed, scraped or graded land, and gravel areas would be included in this land cover type. Disturbed land cover type is vegetated with diverse weedy flora. The BSA contains approximately 17.37 acres (~48%) of disturbed/urban land.

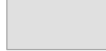
Annual Grassland


The Project area consists of primarily disturbed/urban habitat but is otherwise dominated by annual grasslands. The annual grasslands throughout the rural landscape consist of varying non-native species including wild oat (*Avena sp.*), Italian rye grass (*Festuca perennis*), medusahead (*Elymus caput-medusae*), curly dock (*Rumex crispus*), and others. Annual grasslands within the BSA are primarily located northwest of the intersection of Laguna Creek and Whitehouse Creek and east of SR99. The BSA contains approximately 10.17 acres (~28%) of annual grasslands.

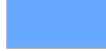
 Biological Study Area (35.87 acres)


 Deed Restricted Parcel


Vegetation Communities


 Disturbed/Urban (17.37 acres)

 Annual Grassland (10.17 acres)

 Perennial Creek (5.78 acres)

 Emergent Wetland (2.36 acres)

 Seasonal Wetland (0.05 acre)

 Seasonal Wetland Swale (0.14 acres)

V:\3040 Laguna Creek Trail Crossing\Biology\F4_VegComm.mxd

Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd



FIGURE 4
Vegetation Communities

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

Perennial Creeks

A portion of the BSA includes Whitehouse Creek and Laguna Creek. Laguna Creek and Whitehouse Creek are part of the Morrison Creek watershed, and Laguna Creek subwatershed, within the Lower Sacramento River Hydrologic Unit (HUC 6). The perennial creek habitat type is defined as the average wetted area within the perennial linear water features such as rivers, streams, and creeks. Habitat types typically found immediately adjacent to the stream and creek habitat within the BSA include seasonal wetland, seasonal wetland swales, emergent wetlands, and annual grassland habitats. Vegetation cover within perennial creeks in the BSA is dominated by swamp smartweed (*Persicaria hydropiperoides*). Emergent vegetation cover along the creek banks within the BSA is dominated by soft rush (*Juncus effusus*), tall flatsedge (*Cyperus eragrostis*), tule (*Schoenoplectus acutus var. occidentalis*) and spike rush (*Eleocharis palustris*). The BSA contains approximately 5.78 acres (~16%) of perennial creeks.

Emergent Wetland

Freshwater emergent wetlands are characterized by erect, rooted herbaceous hydrophytes such as common cattail. Emergent wetlands are flooded frequently enough so that the roots of the vegetation are in an anaerobic environment. On the upper margins of this habitat, saturated or periodically flooded soils support several moist soil plant species including soft rush, tall flatsedge, and saltgrass (*Distichlis spicata*). Lower, wetter portions of freshwater emergent wetlands in the Project area are composed of swamp smartweed, and tule.

Freshwater emergent wetlands are among the most productive wildlife habitats in California. Many species rely on freshwater emergent wetlands for their entire life cycle. GGS uses these wetlands as its primary habitat and has a moderate potential to occur within the BSA. Slow-moving waters provide important resting and foraging habitats for migratory water birds such as the song sparrow “Modesto population”, and black phoebe, both of which were observed during the biological surveys conducted on December 1, 2023. The BSA contains approximately 2.36 acres (~7%) of emergent wetlands.

Seasonal Wetland

Seasonal wetlands are defined as ephemeral wetlands that pond during the rainy season and dry during the summer dry season. This habitat type is dominated by hydrophytic vegetation types of grasses, herbs, and forbs. Vegetation cover in seasonal wetlands within the BSA is composed primarily of curly dock, cutleaf geranium (*Geranium dissectum*), field mustard (*Brassica rapa*), English plantain (*Plantago lanceolata*), and Himalayan blackberry (*Rubus armeniacus*). The seasonal wetland habitat type occurs west of Whitehouse Creek and north of Laguna Creek in the eastern portion of the BSA. Seasonal wetlands can provide habitat for vernal pool associates, and habitat for a wide variety of wildlife including songbirds, waterfowl, reptiles, and other wildlife species. The BSA contains approximately 0.05 acres (~0.1%) of seasonal wetlands.

Seasonal Wetland Swale

The seasonal wetland swale land cover type is defined as low meandering channels that tend to be saturated long enough to support vegetative associations. Swale features often represent the headwaters of streams, connect seasonal wetlands, and/or drain small watersheds into defined creeks. Swales can be supported by minor groundwater seepage. Swales within the BSA contain curly dock, yellow starthistle (*Centaurea solstitialis*), Italian ryegrass, ripgut brome (*Bromus diandrus*), and other nonnative grasses. Seasonal swales that occur within and between vernal

pool complexes are classified as vernal swales. The seasonal wetland swale habitat type occurs east of Whitehouse Creek in the eastern portion of the BSA. The BSA contains approximately 0.14 acres (~0.4%) of seasonal wetland swales.

Table 1. Species Observed

The following is a comprehensive list of species observed from seven site visits that occurred for the Project on the following dates: April 4, April 24-26, and June 21, 2018, and July 27, 2023, and December 1, 2023.

Common Name	Scientific Name	Native (N)/ Non-native (X) [Cal-IPC Rating]
Plant Species		
black mustard	<i>Brassica nigra</i>	X [Moderate]
blue dicks	<i>Dichelostemma capitatum</i>	N
broadleaf cattail	<i>Typha latifolia</i>	N
bullthistle	<i>Cirsium vulgare</i>	X [Moderate]
California brome	<i>Bromus carinatus</i>	N
California bulrush	<i>Schoenoplectus californicus</i>	N
California manroot	<i>Marah fabacea</i>	N
California poppy	<i>Eschscholzia californica</i>	N
California Wild Rose	<i>Rosa californica</i>	N
Canary Island pine	<i>Pinus canariensis</i>	X
carpet clover	<i>Trifolium monanthum</i>	N
Chinese pistache	<i>Pistacia chinensis</i>	X
Chinese privet	<i>Ligustrum sinense</i>	X
Chinese Tallow	<i>Triadica sebifera</i>	X [Moderate]
Cichory	<i>Cichorium intybus</i>	X
coast redwood	<i>Sequoia sempervirens</i>	N
common fiddleneck	<i>Amsinckia intermedia</i>	N
common lippia	<i>Phyla nodiflora</i>	N
common smartweed	<i>Persicaria hydropiperoides</i>	X
common Sow-thistle	<i>Sonchus oleraceus</i>	X
common Spike-rush	<i>Eleocharis palustris</i>	N
common stork's-bill	<i>Erodium cicutarium</i>	X [Limited]
common tarweed	<i>Centromadia pungens</i>	N
coyote brush	<i>Baccharis pilularis</i>	N
coyote-thistle	<i>Eryngium castrense</i>	N
creeping saltbush	<i>Atriplex semibaccata</i>	X [Moderate]
curly dock	<i>Rumex crispus</i>	X [Limited]
curvepod yellowcress	<i>Rorippa curvisiliqua</i>	N
cut-leaved crane's-bill	<i>Geranium dissectum</i>	X [Limited]
Dallis grass	<i>Paspalum diatatum</i>	X
english plantain	<i>Plantago lanceolata</i>	X [Limited]
field mustard	<i>Brassica rapa</i>	X [Limited]

field sedge	<i>Carex praegracilis</i>	N
flax-leaved horseweed	<i>Erigeron bonariensis</i>	X
floating primrose-willow	<i>Ludwigia peploides</i>	N
fountain grass	<i>Pennisetum setaceum</i>	X [Moderate]
foxtail Barley	<i>Hordeum murinum</i>	X [Moderate]
foxtail brome	<i>Bromus madritensis</i>	X
Fremont cottonwood	<i>Populus fremontii</i>	N
fringed willowherb	<i>Epilobium ciliatum</i>	N
French lavender	<i>Lavandula stoechas</i>	X
glossy privet	<i>Ligustrum lucidum</i>	X [Limited]
Goodding's willow	<i>Salix gooddingii</i>	N
hairy hawkbit	<i>Leontodon saxatilis</i>	X
hairy vetch	<i>Vicia villosa ssp. villosa</i>	X
harvest brodiaea	<i>Brodiaea elegans</i>	N
Himalayan Blackberry	<i>Rubus armeniacus</i>	X [High]
Hyssop loosestrife	<i>Lythrum hyssopifolia</i>	X [Limited]
interior live oak	<i>Quercus wislizeni</i>	N
Italian Ryegrass	<i>Lolium multiflorum</i>	X [Moderate]
Italian thistle	<i>Carduus pycnocephalus</i>	X [Moderate]
jointed charlock	<i>Raphanus sativus</i>	X [Limited]
little quaking-grass	<i>Briza minor</i>	X
London plane tree	<i>Platanus hispanica</i>	X
lupine sp.	<i>Lupinus</i>	N
Mediterranean barley	<i>Hordeum marinum gussoneanum</i>	X [Moderate]
medusa head	<i>Taeniatherum caput-medusae</i>	X [High]
Mexican Fan Palm	<i>washingtonia robusta</i>	X [Moderate]
milk thistle	<i>Silybum marianum</i>	X [Limited]
Muehlenberg's Centaury	<i>Zeltnera muehlenbergii</i>	N
narrow leaf milkweed	<i>Asclepias fascicularis</i>	N
narrowleaf willow	<i>Salix exigua</i>	N
Northern California black walnut	<i>Juglans hindsii</i>	N
Pacific poison oak	<i>Toxicodendron diversilobum</i>	N
pennyroyal	<i>Mentha pulegium</i>	X [Moderate]
Pitgland tarweed	<i>Holocarpha virgata</i>	N
Prickly lettuce	<i>Lactuca serriola</i>	X
purple owl's-clover	<i>Castilleja exserta exserta</i>	N
rippgut brome	<i>Bromus diandrus</i>	X [Moderate]
rose Clover	<i>Trifolium hirtum</i>	X [Limited]
rough cocklebur	<i>Xanthium strumarium</i>	N
Saltgrass	<i>Distichlis spicata</i>	N
Saltmarsh aster	<i>Symphotrichum subulatum</i>	N

scarlet oak	<i>Quercus coccinea</i>	X
shortpod mustard	<i>Hirschfeldia incana</i>	X [Moderate]
small six-weeks grass	<i>Vulpia microstachys</i>	N
soft chess brome	<i>Bromus hordeaceus</i>	X [Limited]
soft rush	<i>Juncus effusus</i>	N
spikeweed	<i>Centromedia fitchii</i>	N
spreading Rush	<i>Juncus patens</i>	N
sturdy sedge	<i>Carex alma</i>	N
sweet fennel	<i>Foeniculum vulgare</i>	X [Moderate]
tall flatsedge	<i>Cyperus eragrostis</i>	N
Tasmanian blue gum	<i>Eucalyptus globulus</i>	X [Limited]
tule	<i>Schoenoplectus acutus var. occidentalis</i>	N
tumbleweed	<i>Salsola tragus</i>	X [Limited]
turkey mullein	<i>Croton setiger</i>	N
valley oak	<i>Quercus lobata</i>	N
vernal pool buttercup	<i>Ranunculus bonariensis trisepalus</i>	
wall bedstraw	<i>Galium parisiense</i>	X
watercress	<i>Nasturtium officinale</i>	N
Western redbud	<i>Cercis occidentalis</i>	N
White stemmed filaree	<i>Erodium brachycarpum</i>	X
wild pea	<i>Pisum sativum elatius</i>	X
wild oat	<i>Avena fatua</i>	X [Moderate]
wild radish	<i>Raphanus raphanistrum</i>	X
yellow starthistle	<i>Centaurea solstitialis</i>	X [High]
Animal Species		
American Coot	<i>Fulica americana</i>	N
American crow	<i>Corvus brachyrhynchos</i>	N
American Pipit	<i>Anthus rubescens</i>	N
American Robin	<i>Turdus migratorius</i>	N
Anna's Hummingbird	<i>Calypte anna</i>	N
Barn Swallow	<i>Hirundo rustica</i>	N
Black Phoebe	<i>Sayornis nigricans</i>	N
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	N
Bushtit	<i>Psaltiriparus minimus</i>	N
California Quail	<i>Callipepla californica</i>	N
California Scrub-Jay	<i>Aphelocoma californica</i>	N
Canada Goose	<i>Branta canadensis</i>	N
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	N
Common Gallinule	<i>Gallinula galeata</i>	N
Cooper's Hawk	<i>Accipiter cooperii</i>	N
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	N
European Starling	<i>Sturnus vulgaris</i>	X
Great Egret	<i>Ardea alba</i>	N
Green Heron	<i>Butorides virescens</i>	N

House Finch	<i>Haemorhous mexicanus</i>	X
House Sparrow	<i>Passer domesticus</i>	X
Killdeer	<i>Charadrius vociferus</i>	N
Mallard	<i>Anas platyrhynchos</i>	N
Mourning Dove	<i>Zenaida macroura</i>	N
Northern Mockingbird	<i>Mimus polyglottos</i>	N
Northern flicker	<i>Colaptes auratus</i>	N
Prairie Falcon	<i>Falco mexicanus</i>	N
Red-shouldered Hawk	<i>Buteo lineatus</i>	N
Red-tailed Hawk	<i>Buteo jamaicensis</i>	N
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	N
Ring-necked Pheasant	<i>Phasianus colchicus</i>	N
Rock Pigeon (Feral Pigeon)	<i>Columba livia</i>	N
Savannah Sparrow	<i>Passerculus sandwichensis</i>	N
Snowy Egret	<i>Egretta thula</i>	N
Song Sparrow	<i>Melospiza melodia</i>	N
Swainson's Hawk	<i>Buteo swainsoni</i>	N
Turkey Vulture	<i>Cathartes aura</i>	N
Western Bluebird	<i>Sialia mexicana</i>	N
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	N
White-tailed Kite	<i>Elanus leucurus</i>	N
Wild turkey	<i>Meleagris gallopavo</i>	N
Wilson's Snipe	<i>Gallinago delicata</i>	N
Yellow-rumped Warbler	<i>Setophaga coronata</i>	N
Western fence lizard	<i>Sceloporus occidentalis</i>	N
Western pond turtle	<i>Emys marmorata</i>	N

Wildlife

Wildlife observed within the BSA included local bird species such as the killdeer (*Charadrius vociferus*), white-tailed kite (*Elanus leucurus*), northern flicker (*Colaptes auratus*), barn swallow (*Hirundo rustica*), savannah sparrow (*Passerculus sandwichensis*), song sparrow (*melospiza melodia*), American crow (*Corvus brachyrhynchos*), California scrubjays (*Aphelocoma californica*), mourning dove (*Zenaida macroura*), western meadowlark (*Sturnella neglecta*), black phoebe (*Savornis nigricans*), barn swallow (*Hirundo rustica*), turkey vulture (*Cathartes aura*), western bluebird (*Sialia mexicana*) and white-crowned sparrow (*Zonotrichia leucophrys*). Most bird observations were recorded within the emergent wetland habitat and adjacent annual grassland habitat; however, species were observed throughout the BSA.

3.1.4 Habitat Connectivity

The CDFW Biogeographic Information & Observation System was reviewed to determine if the BSA is located within an Essential Connectivity Area. The BSA is within an area of Terrestrial Connectivity Rank 1 – Limited Connectivity Opportunity. These are areas where land use may limit options for providing connectivity (e.g., agriculture, urban) or no connectivity importance has been identified in models. Implementation of this Project will not permanently fragment any existing natural habitats in such a way that would prohibit wildlife movement, and therefore will not impact any existing habitat connectivity networks.

3.1.5 Regional Species and Habitats and Natural Communities of Concern

Plant and animal species have special status if they have been listed as such by Federal or state agencies or by one or more special interest groups, such as CNPS. Prior to the field survey, literature searches were conducted using USFWS IPaC, CDFW CNDDDB, CNPS, and NMFS databases to identify regionally sensitive species with potential to occur within the BSA. **Table 2. Special Status Species with Potential to Occur in the Project Vicinity** provides the list of regional special status species returned by the database searches, describes the habitat requirements for each species, and states if the species was determined to have potential to occur within the BSA. There were 23 plant species and 34 wildlife species with the potential to occur in the Project vicinity returned by the database searches. A total of fourteen special status species have potential to occur within the Project area: burrowing owl, song sparrow “Modesto population”, Swainson’s hawk, tricolored blackbird, white-tailed kite, yellow-headed blackbird, GGS, NWPT, alkali-sink goldfields, Boggs Lake hedge-hyssop, dwarf downingia, legenere, Sanford’s arrowhead, and woolly rose-mallow.

Table 2. Special Status Species with the Potential to Occur in the Project Vicinity

Common Name	Species Name	Status	General Habitat Description	Habitat Present/Absent	Rationale and Potential for Occurrence
Amphibian Species					
California tiger salamander - central California DPS	<i>Ambystoma californiense pop. 1</i>	Fed: State: CDFW:	T T WL	A	Presumed Absent: The BSA lacks suitable aquatic habitat to support breeding of CTS. In addition, there are no documented CNDDDB occurrences within 10 miles of the Project area. Due to lack of suitable habitat and lack of local occurrences, this species is presumed absent. FESA Determination: No effect
Western spadefoot	<i>Spea hammondi</i>	Fed: State: CDFW:	PT -- SSC	A	Presumed Absent: The BSA lacks sandy/gravelly soils within suitable upland habitat for the species. The upland habitat with and adjacent to the BSA is surrounded by residential and commercial businesses. The nearest most recent CNDDDB occurrences of the species is approximately 9.7 miles northeast of the BSA recorded in 1978. Due to the lack of suitable habitat and the lack of local occurrences, the species is presumed absent. FESA Determination: No determination (Proposed Threatened)
Bird Species					
Bank swallow	<i>Riparia riparia</i>	Fed: State: CDFW:	-- T --	A	Presumed Absent: The BSA lacks suitable foraging and nesting habitat for the species. There are also no documented CNDDDB occurrences within 10 miles of the Project area. Due to lack of suitable habitat and lack of local occurrences, this species is presumed absent.

				Requires vertical banks or cliffs with fine textured/sandy soils for nesting (tunnel and burrow excavations). Nests exclusively near streams, rivers, lakes, or the ocean. Breeds from May through July.		
Burrowing owl	<i>Athena cunicularia</i>	Fed: State: CDFW:	-- -- SSC	The species inhabits arid, open areas with sparse vegetation cover such as deserts, abandoned agricultural areas, grasslands, and disturbed open habitats. Can be associated with open shrub stages of pinyon-juniper and ponderosa pine habitats. Nests in old small mammal burrows but may dig own burrow in soft soil. Nests are lined with excrement, pellets, debris, grass, and feathers. The species may use pipes, culverts, and nest boxes, and even buildings where burrows are scarce. Breeding occurs March through August (below 5,300 feet).	P	High Potential: The BSA contains annual grassland habitat which is potentially suitable nesting and foraging habitat for the species. Additionally, there is a recent (2016) documented CNDDDB occurrence of the species approximately 2 miles northwest of the BSA. The nearest occurrence of burrowing owl is approximately 0.5 miles south of the BSA recorded in 2007 and is presumed extant. Due to the presence of suitable habitat within the BSA and local occurrences, burrowing owl has a high potential to occur.
California black rail	<i>Laterallus jamaicensis coturniculus</i>	Fed: State: CDFW:	-- T FP	A rare, yearlong California resident of brackish and freshwater emergent wetlands in delta and coastal locations including the San Francisco Bay area, Sacramento-San Joaquin Delta, Morro Bay, the Salton Sea, and lower Colorado River. More than 90% of the species are found in the tidal salt marshes of the northern San Francisco Bay region, predominantly in San Pablo and Suisun Bays. Smaller populations occur in the San Francisco Bay, the Outer Coast of Marin County, and freshwater marshes in the foothills of the Sierra Nevada. The species is extirpated from San Diego County and the majority of coastal southern California. Occurs in tidal emergent wetlands dominated by pickleweed, in brackish marshes	A	Presumed Absent: The BSA lacks suitable delta or coastal brackish wetlands, and the BSA is not located in the species known range within the San Francisco Bay Area or Sacramento-San Joaquin Delta. The nearest presumed extant occurrence of the species is approximately 7 miles southwest of the BSA within the Stone Lakes National Wildlife Refuge. Due to the lack of suitable habitat and the lack of local occurrences, the species is presumed absent from the BSA.

				dominated by bulrushes with pickleweed, and in freshwater wetlands dominated by bulrushes, cattails, and salt grass. Species prefers high wetland areas, away from areas experiencing fluctuating water levels. Requires vegetation providing adequate overhead cover for nesting. Eggs are laid from March through June.		
Cooper's hawk	<i>Accipiter cooperii</i>	Fed: State: CDFW:	-- -- WL	A breeding resident throughout most of the wooded portion of the state. Breeds in southern Sierra Nevada foothills, New York Mts., Owens Valley, and other local areas in southern California. Ranges from sea level to above 2700 m (0-9000 ft). Dense stands of live oak, riparian deciduous, or other forest habitats near water used most frequently. Hunts in broken woodland and habitat edges; catches prey in air, on ground, and in vegetation.	A	Presumed Absent: The BSA lacks forest habitat and contains no trees suitable to support nesting of the species. There is one documented CNDDDB occurrence approximately 4 miles northeast of the Project area. Due to lack of suitable habitat, this species is presumed absent from the BSA.
Double-crested cormorant	<i>Nannopterum auritum</i>	Fed: State: CDFW:	-- -- WL	This adaptable species inhabits coasts, bays, lakes, and rivers. Found in almost any aquatic habitat such as rocky northern coasts, mangrove swamps, large reservoirs, and small inland ponds. Nests in trees nearby or over water, on sea cliffs, or on ground on islands. Forms colonies of stick nests high in trees on islands or in patches of flooded timber. Feeds on a variety of fish.	A	Presumed Absent: The BSA lacks fish-bearing coasts, bays, lakes, and rivers required by the species. There are two documented CNDDDB occurrences of the species near the Bufferlands Open Space Preserve approximately 5 miles northwest of the Project area (2005). Due to lack of suitable habitat within the BSA, this species is presumed absent.
Ferruginous hawk	<i>Buteo regalis</i>	Fed: State: CDFW:	-- -- WL	Inhabit open areas such as grasslands, sagebrush, saltbush-greasewood shrublands, and edges of pinyon-juniper forests. Prefer to forage in grasslands with abundant small mammal populations. The species nests on lone trees, cliffs, utility structures, outcrops, boulders, shrubs, knolls, or haystacks. If they do ground nest, it will be on a slope or hill crest.	A	Presumed Absent: The BSA lacks suitable nesting habitat for the species, including large lone trees, cliffs, outcrops, etc. There are two documented CNDDDB occurrences of the species near the Bufferlands Open Space Preserve approximately 5 miles northwest of the Project area (2003). Due to lack of suitable nesting habitat in the BSA, this species is presumed absent.

Golden eagle	<i>Aquila chrysaetos</i>	Fed: -- State: -- CDFW: FP	-- -- FP	Inhabits rolling foothills, mountain areas, sage-juniper flats, and desert communities. Requires open terrain for hunting, often utilizing rolling foothills and mountain terrain, wide arid plateaus deeply cut by streams and canyons, open mountain slopes, and cliffs and rock outcrops, grasslands and early successional stages of forest and shrub habitats. Territory is estimated to average 36 mi ² in southern California and 48 mi ² in northern California. Nests on cliffs of all heights and in large trees in open areas; may reuse previous nest sites. Breeds from late January through August (0-11,500 feet).	A	Presumed Absent: The BSA does not contain foothills, mountain areas, sage-juniper flats, or desert habitat communities. The nearest extant occurrence of the species is approximately 8 miles northeast of the BSA (1991). Due to the lack of potentially suitable habitat and the distance to known extant occurrences, the species is presumed absent from the BSA.
Least Bell's vireo	<i>Vireo bellii pusillus</i>	Fed: E State: E CDFW: --	E E --	Summer resident of southern California inhabiting low elevation riparian habitats in the vicinity of water and dry river bottoms. Prefers willows, baccharis, mesquite and other low, dense vegetation as nesting site. Forages in dense brush and occasionally treetops. The species is known to occur in all four southern California national forests, with the largest population in the Los Padres National Forest (below 2,000 feet).	A	Presumed Absent: The BSA lacks dense riparian habitats with willows, baccharis, mesquite and other low, dense vegetation or trees required for foraging and nesting. There are also no CNDDDB occurrences within 10 miles of the BSA. Due to lack of suitable habitat, this species is presumed absent. FESA Determination: No effect
Merlin	<i>Falco columbarius</i>	Fed: -- State: -- CDFW: WL	-- -- WL	The boreal subspecies inhabits areas near forests, rivers, lakes, and bogs. The prairie subspecies inhabits riparian habitats and deciduous trees. The species occurs in grasslands, open forests, and coastal areas during migratory seasons. They nest in conifers and deciduous trees, typically in abandoned nests of crows and hawks. Rarely do they nest in tree cavities, cliffs, or the ground. Breeds in semi-open areas with trees.	A	Presumed Absent: The BSA lacks rivers, lakes and bogs near forested habitat. There are five documented CNDDDB occurrences of the species near the Bufferlands Open Space Preserve approximately 5 miles northwest of the Project area (2004). However, due to the lack of suitable habitat onsite, the species is presumed absent.

Purple martin	<i>Progne subis</i>	Fed: State: CDFW:	-- -- SSC	Present in California as a summer migrant, arriving in March and departing by late September. Inhabits valley foothill and montane hardwood/hardwood-conifer, coniferous habitats, and riparian habitats. Associated with closed-cone pine-cypress, ponderosa pine, Douglas-fir, and redwood. Nests in tall, old, isolated trees or snags in open forest or woodland and in proximity to a body of water. Frequently nests within former woodpecker cavities; may nest in human-made structures such as nesting boxes, under bridges and in culverts. Needs abundant aerial insect prey. Breeds April through August.		Presumed Absent: The BSA lacks suitable valley foothill and montane hardwood/hardwood-conifer, coniferous or riparian habitats required by the species. The nearest known extant occurrence of the species is approximately 8.5 miles northwest of the BSA (2003). Due to the lack of suitable habitat and distance from known extant occurrences the species is presumed absent from the BSA.
Song sparrow ("Modesto" population)	<i>Melospiza melodia</i> pop. 1	Fed: State: CDFW:	-- -- SSC	An endemic bird found exclusively in the north-central portion of the Central Valley, with highest densities in the Butte Sink and Sacramento-San Joaquin River Delta. The species is usually found in open brushy habitats, along the borders of ponds or streams, abandoned pastures, desert washes, thickets, or woodland edges. In addition, there is a strong affinity for emergent freshwater marshes dominated by tules and cattails, riparian willow thickets, and valley oak forests with a blackberry understory. Breeds from March through August. Nest found in base of shrubs or clumps of grass.	P	Present: The BSA includes annual grassland habitat and adjacent emergent wetland habitat which provides suitable foraging and nesting habitat for the species. There are 9 documented CNDDDB occurrences of the species approximately 5-6 miles east of the BSA near Stone Lakes National Wildlife Refuge. Additionally, the species was identified during the April 2018 biological survey efforts; therefore, the species is expected to be present within the BSA.
Swainson's hawk	<i>Buteo swainsoni</i>	Fed: State: CDFW:	-- T --	Inhabits grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, alfalfa or grain fields	P	High Potential: The BSA lacks suitable nesting habitat for the species but does contain a patch of grassland habitat which provides potentially suitable foraging habitat for the species. The species was observed soaring over the BSA during the April 2018 biological

				that support a stable rodent prey base. Breeds March to late August.		survey efforts. Additionally, there are over 50 CNDDDB occurrences within 10 miles of the BSA, including one historic (1989) occurrence within the BSA. Due to the presence of suitable foraging and observance of the species during one of the biological surveys, the species has a high potential to utilize suitable foraging habitat within the BSA.
Tricolored blackbird	<i>Agelaius tricolor</i>	Fed: State: CDFW:	-- T SSC	Inhabits freshwater marsh, swamp and wetland communities, but may utilize agricultural or upland habitats that can support large colonies, often in the Central Valley area. Requires dense nesting habitat that is protected from predators, is within 3-5 miles from a suitable foraging area containing insect prey and is within 0.3 miles of open water. Suitable foraging includes wetland, pastureland, rangeland, at dairy farms, and some irrigated croplands (silage, alfalfa, etc.). Nests in dense cattails, tules, willow, blackberry, wild rose, or tall herbs. Nests mid-March to early August but may extend until October or November in the Sacramento Valley region.	P	Moderate Potential: The BSA contains fresh emergent wetland habitat which may provide potentially suitable nesting habitat for the species. These habitats are moderately dense and are dominated by tules and cattails. There are over 30 documented CNDDDB occurrences within 10 miles of the BSA, including one within the eastern portion of the BSA (2014). However, over multiple years of biological surveys tricolored blackbird has not been observed nesting within the BSA, and the species is known to have a high fidelity for nesting sites. Therefore, based on the presence of suitable habitat and recent CNDDDB occurrences, the species has a moderate potential of occurring within the BSA.
Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	Fed: State: CDFW:	T E --	Species inhabits riparian forests, along broad, lower flood bottoms of larger river systems. Nests in large blocks of riparian jungles often mixed with cottonwoods. Nesting appears to be preferred in riparian forest habitats with a dense understory; requires water near nesting site. Breeds June- August.	A	Presumed Absent: The Project area lacks dense riparian forest habitat and does not contain a large river system. In addition, there are no extant CNDDDB occurrences within 10 miles of the BSA. Due to lack of suitable habitat and lack of local occurrences, this species is presumed absent from the BSA. FESA Determination: No effect

White-tailed kite	<i>Elanus leucurus</i>	Fed: -- State: -- CDFW: FP		Inhabits rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Prefers open grasslands, meadows or marshes for foraging close to isolated, dense-topped trees for nesting and perching. Breeds February- October.	P	High Potential: The BSA contains open grassland habitat which is potentially suitable foraging habitat for the species. The most recent CNDDDB occurrence is approximately 4 miles northeast of the BSA near the Bufferlands Open Space Preserve (2008). Additionally, the species was observed soaring in the Project vicinity during the April 2018 and December 2023 biological survey efforts. Due to the presence of potentially suitable foraging habitat and observance of the species during the biological surveys, the species has a high potential to utilize habitat within the BSA for foraging.
Yellow-headed blackbird	<i>Xanthocephalus xanthocephalus</i>	Fed: -- State: -- CDFW: SSC		Occurs primarily as a migrant and summer resident from April to early October. The species almost exclusively nests in marshes with tall emergent vegetation such as tules (<i>Scirpus sp.</i>) or cattails (<i>Typha sp.</i>), in open areas and edges over water at depths typically ranging from 1-4 feet deep. Frequently breeds within marshes edges of lakes, reservoirs, or larger ponds. Breeds from April-July.	P	Moderate Potential: The BSA contains potentially suitable habitat for the species, including fresh emergent wetland areas within and adjacent to Laguna Creek. These habitats are moderately dense and are dominated by tules and cattails, which the species is known to inhabit for nesting and foraging. There is one historic CNDDDB occurrence nearby the Sacramento River approximately 6 miles east of the BSA (1899). Due to potentially suitable habitat within the Project area, this species has a moderate potential to occur within the BSA.
Fish Species						
Chinook salmon - Central Valley spring-run ESU	<i>Oncorhynchus tshawytscha pop. 11</i>	Fed: T State: T CDFW: --		Spring-run Chinook enter the Sacramento-San Joaquin River system to spawn, requiring larger gravel particle size and more water flow through their redds than other salmonids. Remaining runs occur in Butte, Mill, Deer, Antelope, and Beegum Creeks, tributaries to the Sacramento River. Known to occur in Siskiyou and Trinity counties.	A EFH-A	Presumed Absent: The BSA does not contain suitable habitat for the species and anadromous fish are not known to occur in Laguna Creek. Levee and pumping station barriers from the Sacramento River to Laguna Creek prevent passage of the species. Furthermore, Laguna Creek has no direct connection to any streams that support anadromous fish such as the Sacramento River or Cosumnes River.

						<p>There is a pumping station present along the Sacramento River Delta that blocks anadromous fish from entering Morrison Creek and/or Laguna Creek (Calfish 2023). According to the Biological Resources Section of the Elk Grove General Plan Background Report, because open water habitats within the City are not tributaries to the Sacramento River, Central Valley Chinook salmon, Central Valley steelhead, Delta smelt, green sturgeon, Kern brook lamprey, Pacific lamprey, river lamprey, and Sacramento splittail are unlikely to occur within the City (City of Elk Grove 2002).</p> <p>FESA Determination: No effect</p>
Chinook salmon - Sacramento River winter-run ESU	<i>Oncorhynchus tshawytscha</i> pop. 7	Fed: State: CDFW:	E E --	Winter-run Chinook are currently restricted within the Sacramento River below Keswick dam; species does not spawn in tributaries. Species requires cold water over gravel beds to spawn.	A EFH-A	<p>Presumed Absent: The BSA does not contain suitable habitat for the species and anadromous fish are not known to occur within Laguna Creek. Levee and pumping station barriers from the Sacramento River to Laguna Creek prevent passage of the species. Furthermore, Laguna Creek has no direct connection to any streams that support anadromous fish such as the Sacramento River or Cosumnes River. There is a pumping station present along the Sacramento River Delta that blocks anadromous fish from entering Morrison Creek and/or Laguna Creek (Calfish 2023). According to the Biological Resources Section of the Elk Grove General Plan Background Report, because open water habitats within the City are not tributaries to the Sacramento River, Central Valley Chinook salmon, Central Valley steelhead, Delta smelt, green sturgeon, Kern brook lamprey, Pacific lamprey, river lamprey, and</p>

						<p>Sacramento splittail are unlikely to occur within the City (City of Elk Grove 2002).</p> <p>FESA Determination: No effect</p>
Delta smelt	<i>Hypomesus tanspacificus</i>	Fed: State: CDFW:	T -- --	Occurs within the Sacramento-San Joaquin Delta and seasonally within the Suisun Bay, Carquinez Strait and San Pablo Bay. Most often occurs in partially saline waters.	A	<p>Presumed Absent: The BSA does not contain suitable saline waters to support the species, and the BSA is outside the range of the species.</p> <p>FESA Determination: No effect</p>
Green sturgeon – southern DPS	<i>Acipenser medirostris</i> pop. 1	Fed: State: CDFW:	T -- --	Most marine of the sturgeon species. Predominately spawns in the upper Sacramento River, with some recorded in the Rogue River, Klamath and Trinity Rivers (Klamath River basin). In the Sacramento River, green sturgeon spawn above Hamilton City up to Keswick Dam. Known to occupy other river bodies including the lower Feather River; spawning not recorded; no green sturgeon has ever been documented in the San Joaquin River or its tributaries. Large cobbles preferred for spawning but may utilize a range of substrates from bedrock to sand. Spawning occurs March-July.	A EFH-A	<p>Presumed Absent: The BSA does not contain suitable habitat for the species and anadromous fish are not known to occur in Laguna Creek. Levee barriers from the Sacramento River to Laguna Creek prevent passage of the species. Furthermore, Laguna Creek has no direct connection to any streams that support anadromous fish such as the Sacramento River or Cosumnes River. There is a pumping station present along the Sacramento River Delta that blocks anadromous fish from entering Morrison Creek and/or Laguna Creek (Calfish 2023). According to the Biological Resources Section of the Elk Grove General Plan Background Report, because open water habitats within the City are not tributaries to the Sacramento River, Central Valley Chinook salmon, Central Valley steelhead, Delta smelt, green sturgeon, Kern brook lamprey, Pacific lamprey, river lamprey, and Sacramento splittail are unlikely to occur within the City (City of Elk Grove 2002).</p> <p>FESA Determination: No effect</p>
Longfin smelt	<i>Spirinchus thaleichthys</i>	Fed: State: CDFW:	PE T --	Within California, occurs slightly upstream from Rio Vista (on the Sacramento River in the Delta) including	A	<p>Presumed Absent: The BSA does not contain suitable saline waters for the</p>

				the Cache Slough region and Medford Island (on the San Joaquin River in the Delta) through Suisun Bay and Suisun Marsh, the San Pablo Bay, the main San Francisco Bay, South San Francisco Bay, the Gulf of the Farallones, Humboldt Bay, and the Eel river estuary & local coastal areas. Resides in California and are primarily an anadromous estuarine species that can tolerate salinities ranging from freshwater to nearly pure seawater. Prefers temperatures in the range of 16-18°C and salinities ranging from 15-30 ppt. Their spatial distribution within a bay or estuary is seasonally variable. Longfin smelt may also make daily migrations; remaining deep during the day and rising to the surface at night.		species, and the BSA is outside the range of the species. FESA Determination: No determination (Proposed Endangered).
Sacramento perch	<i>Archoplites interruptus</i>	Fed: -- State: -- CDFW: SSC	-- -- SSC	Inhabits sloughs, lakes, and slow moving rivers of the Central Valley. Prefers turbid lakes, reservoirs and ponds warmed by summer heat and absent of plants; may occasionally occur in clear water among beds of aquatic vegetation. Species tolerates high temperatures, high salinities, high turbidity, and low water clarity. Young require aquatic and overhanging vegetation for cover. Spawns March-August in water temperatures between 64-84°F.	A	Presumed Absent: The BSA is outside of the species known range. The only known extant occurrence of the species is within Lake Greenhaven approximately 20 miles northwest of the BSA (1973). Laguna Creek has no connection with Lake Greenhaven, and no other known populations were identified within the USGS 7.5-minute 9-quadrangles search. Due to the lack of connection to waterbodies of known extant occurrences the species is presumed absent from the BSA.
Sacramento splittail	<i>Pogonichthys macrolepidotus</i>	Fed: -- State: -- CDFW: SSC	-- -- SSC	Historically inhabited low moving rivers, sloughs, and alkaline lakes of the Central Valley; now restricted to the Delta, Suisun Bay and associated marshes. Species is adapted to fluctuating environments with tolerance to water salinities from 10-18 ppt., low oxygen levels (< 1.0 mg/L) and temperatures of 41-75°F. Spawns late February- early July, with a peak in	A	Presumed Absent: The BSA lacks low moving rivers, sloughs and alkaline lakes in which the species occurs. Additionally, the BSA is outside of the species known range, and is presumed absent.

				March-April; requires flooded vegetation for spawning activity and protective cover for young.		
Steelhead - Central Valley DPS	<i>Oncorhynchus mykiss irideus</i> pop. 11	Fed: State: CDFW:	T -- --	This DPS includes naturally spawned anadromous <i>O. mykiss</i> (steelhead) originating below natural and manmade impassable barriers from the Sacramento and San Joaquin Rivers and their tributaries; excludes such fish originating from San Francisco and San Pablo Bays and their tributaries. Spawning occurs in watersheds while rearing occurs in freshwater or estuary habitats prior to emigrating to the ocean in the winter and spring. Preferred spawning sites contain gravel substrate with sufficient water flow and riverine cover. Rearing habitat contains sufficient feeding with associated riparian forest containing willow and cottonwoods. Migration upstream for reproduction occurs from October to May with spawning occurring January to April.	A EFH-A	<p>Presumed Absent: The BSA does not contain suitable habitat for the species and anadromous fish are not known to occur within Laguna Creek. Levee and pumping station barriers from the Sacramento River to Laguna Creek prevent passage of the species. Furthermore, Laguna Creek has no direct connection to any streams that support anadromous fish such as the Sacramento River or Cosumnes River. There is a pumping station present along the Sacramento River Delta that blocks anadromous fish from entering Morrison Creek and/or Laguna Creek (Calfish 2023). According to the Biological Resources Section of the Elk Grove General Plan Background Report, because open water habitats within the City are not tributaries to the Sacramento River, Central Valley Chinook salmon, Central Valley steelhead, Delta smelt, green sturgeon, Kern brook lamprey, Pacific lamprey, river lamprey, and Sacramento splittail are unlikely to occur within the City (City of Elk Grove) 2002.</p> <p>FESA Determination: No effect</p>
Invertebrate Species						
Crotch bumble bee	<i>Bombus crotchii</i>	Fed: State: CDFW:	-- CE --	This species is known to occur in central California, Nevada south to Baja California and into Mexico. Inhabits coastal areas, deserts and the Central Valley. The species nests underground in grassland, shrubland and chaparral habitats. The species has a short tongue and primarily feeds on the following plants	A	<p>Presumed Absent: The BSA lacks suitable foraging habitat for the species. Although there is a patch of grassland habitat within the BSA, the area has been previously disturbed, and the site lacks the preferred plant diversity and abundance to support foraging of the species. Additionally, the grassland habitat within and adjacent to the BSA is fragmented by</p>

				<i>Asclepias</i> , <i>Chaenactis</i> , <i>Lupinus</i> , <i>Medicago</i> , <i>Phacelia</i> and <i>Salvia</i> .		residential and commercial development. There are no CNDDDB occurrences within 10 miles of the BSA. Due to the lack of suitable foraging habitat and lack of recent occurrences, the species is presumed absent from the BSA.
Monarch butterfly	<i>Danaus plexippus</i>	Fed: State: CDFW:	C -- --	Winter roosts along the coast from northern Mendocino to Baja California. Utilizes wind protected tree groves in proximity to nectar and water sources. Host plants include milkweed species such as <i>Asclepias syriaca</i> , <i>A. incarnata</i> , and <i>A. speciosa</i> . Suitable habitat includes fields, meadows, weedy areas, marshes, and roadsides. Mass adult migrations occur from August to October.	A	Presumed Absent: The BSA lacks wind protected tree groves. Narrowleaf milkweed was observed within the BSA during biological surveys. However, no individuals of the species were observed. There are also no CNDDDB occurrences within 10 miles of the BSA. Due to lack of suitable habitat and lack of local occurrences, this species is presumed absent. FESA Determination: No determination (Candidate Species).
Valley elderberry longhorn beetle	<i>Desmocerus californicus dimorphus</i>	Fed: State: CDFW:	T -- --	Species requires red or blue elderberry (<i>Sambucus sp.</i>) as host plants. Typically occurs in moist valley oak woodlands associated with riparian corridors in the lower Sacramento River and upper San Joaquin River drainages. Adults are active, feeding, and breeding from March until June (sea level-3,000 feet).	A	Presumed Absent: The BSA lacks the elderberry shrubs, the required host plant of the species. The species is presumed absent. FESA Determination: No effect

<p>Vernal pool fairy shrimp</p>	<p><i>Branchinecta lynchi</i></p>	<p>Fed: T State: -- CDFW: --</p>	<p>T -- --</p>	<p>In California, species inhabits portions of Tehama county, south through the Central Valley, and scattered locations in Riverside County and the Coast Ranges. Species is associated with smaller and shallower cool-water vernal pools approximately 6 inches deep and short periods of inundation. In the southernmost extremes of the range, the species occurs in large, deep cool-water pools. Inhabited pools have low to moderate levels of alkalinity and total dissolved solids. The shrimp are temperature sensitive, requiring pools below 50 F to hatch and dying within pools reaching 75 F. Young emerge during cold-weather winter storms</p>	<p>A</p>	<p>Presumed Absent: The BSA lacks vernal pool habitat required by the species; and therefore, is presumed absent. FESA Determination: No effect</p>
<p>Vernal pool tadpole shrimp</p>	<p><i>Lepidurus packardii</i></p>	<p>Fed: E State: -- CDFW: --</p>	<p>E -- --</p>	<p>Inhabits vernal pools and swales containing clear to highly turbid waters such as pools located in grass bottomed swales of unplowed grasslands, old alluvial soils underlain by hardpan, and mud-bottomed pools with highly turbid water.</p>	<p>A</p>	<p>Presumed Absent: The BSA lacks vernal pool habitat required by the species; and therefore, is presumed absent. FESA Determination: No effect</p>
<p>Mammal Species</p>						
<p>American badger</p>	<p><i>Taxidea taxus</i></p>	<p>Fed: -- State: -- CDFW: --</p>	<p>-- -- SSC</p>	<p>Prefers treeless, dry, open stages of most shrub and herbaceous habitats with friable soils and a supply of rodent prey. Species also inhabits forest glades and meadows, marshes, brushy areas, hot deserts, and mountain meadows. Species maintains burrows within home ranges estimated between 338-1,700 acres, dependent on seasonal activity. Burrows are frequently re-used, but new burrows may be created nightly. Young are born in March and April within burrows</p>	<p>A</p>	<p>Presumed Absent: The BSA contains a patch of grassland habitat but is surrounded by urban development including a highway 99. Badgers are highly susceptible to vehicle mortality and human disturbance. Therefore, it is unlikely the species would use grassland habitat within the BSA for foraging or den sites. The BSA also lacks forest glades and meadows, marshes, brushy areas, hot deserts, and mountain meadows which the species normally inhabits. The nearest CNDDB</p>

				dug in relatively dry, often sandy, soil, usually in areas with sparse overstory cover. Species is somewhat tolerant of human activity, but is sensitive to automobile mortality, trapping, and persistent poisons (up to 12,000 feet).		occurrence is approximately 8 miles northeast of the BSA (1991). Due to lack of suitable habitat and lack of local occurrences, this species is presumed absent from the BSA.
Reptile Species						
Giant Garter Snake	<i>Thamnophis gigas</i>	Fed: State: CDFW:	T T --	Inhabits marsh, swamp, wetland (including agricultural wetlands), sloughs, ponds, rice fields, low gradient streams and irrigation/drainage canals adjacent to uplands. Ideal habitat contains both shallow and deep water with variations in topography. Species requires adequate water during the active season (April-November), emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat and mammal burrows estivation. Requires grassy banks and openings in waterside vegetation for basking and higher elevation uplands for cover and refuge from flood waters during winter dormant season.	P	Low Potential: The BSA contains permanent aquatic habitat, herbaceous wetland vegetation and grassy uplands which may be potentially suitable for the species. There are 13 historic documented CNDDB occurrences within 10 miles of the BSA, including one historic (1987) occurrence in the western portion of the BSA. A habitat assessment for GGS was completed for the Project, which concluded that the BSA does contain suitable upland and aquatic habitat. However, the Project vicinity has undergone major commercial and residential development over the past 20 years, which has fragmented and degraded local GGS habitat. Given that the BSA is surrounded by urban development and bordered by Highway 99 it is unlikely that GGS would be encountered within the Project area. However, due to the presence of potentially suitable habitat, the species has a low potential to occur. FESA Determination: May affect, not likely to adversely affect
Northwestern pond turtle	<i>Actinemys marmorata</i>	Fed: State: CDFW:	PT -- SSC	A fully aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation. Requires basking sites and suitable upland habitat (sandy banks or grassy open field) for reproduction (sea level to 4,690 feet).	P	Present: The BSA contains Laguna Creek and Whitehouse Creek which provides permanent aquatic habitat suitable for the species. One western pond turtle was observed during the April 2018 biological survey efforts at the confluence of

						<p>Whitehouse Creek and Laguna Creek. Additionally, there is a documented CNDDDB occurrence within Laguna Creek, approximately 3 miles east of the BSA. Due to presence of suitable habitat within the BSA, and observance of the species during survey efforts, the species is expected to be present within the BSA.</p> <p>FESA Determination: No determination (Proposed Threatened).</p>
Plant Species						
Ahart's dwarf rush	<i>Juncus leispemus</i> <i>var. aharti</i>	Fed: State: CNPS:	-- -- 1B.2	An annual herb inhabiting grassland swale, gopher mounds and vernal pool margins of mesic valley and foothill grassland communities. Flowers March – May (98-751 feet).	A	Presumed Absent: The BSA contains potentially suitable grassland habitat that borders wetland/swale complexes; however, the BSA is below the species known elevation range, and the nearest presumed extant occurrence is approximately 10 miles from the BSA. The species is presumed absent from the BSA.
Alkali-sink goldfields	<i>Lasthenia chrysantha</i>	Fed: State: CNPS:	-- -- 1B.1	An annual herb native to California. Generally found in alkali sinks, valley grassland, vernal pools, saline flats, and wetland-riparian areas. Blooms February to June (<300 ft).	P	Low Potential: The BSA contains marginally suitable grassland habitat for the species. In addition, there is one CNPS species observation approximately 2 miles northwest of the BSA from 2019. The species was not observed within the BSA during focused rare plant surveys conducted in 2018. However, due to potentially suitable habitat and a recent occurrence, this species has a low potential of occurring within the BSA.
Boggs Lake hedge-hyssop	<i>Gratiola heterosepala</i>	Fed: State: CNPS:	-- E 1B.2	An annual herb inhabiting clay soils and shallow waters of marshes and swamps, lake margins, and vernal pools. Flowers April-August (33-7,792 feet).	P	Low Potential: The BSA contains potentially suitable shallow water habitat to support the species. The nearest presumed extant CNDDDB occurrence is approximately 2 miles east of the BSA (1991). The species was not observed during focused rare plant surveys conducted in 2018. However, due to the

						presence of potentially suitable habitat and the proximity to the extant occurrence, the species has a low potential to occur within the BSA.
Bolander's water-hemlock	<i>Cicuta maculata var. bolanderi</i>	Fed: State: CNPS:	-- -- 2B.2	A perennial herb inhabiting coastal marshes and swamps with fresh or brackish water. Blooms July-September (6-660 feet).	A	Presumed Absent: The BSA does not contain suitable coastal marsh or brackish waters, and the nearest presumed extant occurrence is approximately 13 miles from the BSA within the Sacramento Delta region. Due to the lack of suitable habitat and distance to presumed extant occurrences the species is presumed absent from the BSA.
Bristly sedge	<i>Carex comosa</i>	Fed: State: CNPS:	-- -- 2B.1	A perennial herb inhabiting coastal prairies, marshes and swamps along lake margins, and valley foothill grasslands communities. Blooms May-September (0-2,050 feet).	A	Presumed Absent: The BSA does not contain suitable coastal prairies, marshes, swamps, or valley foothill grassland communities. The nearest presumed extant occurrence of the species is approximately 7 miles from the BSA. Due to the lack of suitable habitat and the distance to extant populations the species is presumed absent from the BSA.
Delta mudwort	<i>Limosella australis</i>	Fed: State: CNPS:	-- -- 1B.2	A perennial stoloniferous herb inhabiting low elevation muddy banks of riparian scrub, freshwater or brackish marshes and swamps, and intertidal flats. Flowers May-August (0 - 32feet).	A	Presumed Absent: The BSA lacks brackish marsh/swamp habitat and intertidal flats. The nearest presumed extant occurrence of the species is approximately 12 miles from the BSA. Due to the distance to extant populations the species is presumed absent from the BSA.
Delta tule pea	<i>Lathyrus jepsonii var jepsonii</i>	Fed: State: CNPS:	-- -- 1B.2	A perennial herb inhabiting freshwater and brackish marshes of coastal and estuarine communities. Flowers May - August (0 - 98 feet).	A	Presumed Absent: The BSA lacks coastal and estuarine communities required for the species. The nearest presumed extant occurrence of the species is approximately 12 miles from the BSA. Due to the lack of suitable habitat the species is presumed absent from the BSA.

Dwarf downingia	<i>Downingia pusilla</i>	Fed: State: CNPS:	-- -- 2B.2	An annual herb inhabiting vernal pools and mesic valley and foothill grassland communities. Flowers March-May (3-1,460 feet).	P	Low Potential: The BSA lacks vernal pool habitat but does contain grassland habitat and shallow aquatic habitat that may be suitable for the species. The nearest presumed extant occurrence is approximately 2 miles east of the BSA (1991). The species was not observed within the BSA during the focused rare plant surveys conducted in 2018. However, due to the presence of potentially suitable habitat and the proximity to the extant occurrences the species has a low potential to occur within the BSA.
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<p>Ferris' milk-vetch</p>	<p><i>Astragalus tener var. ferrisiae</i></p>	<p>Fed: State: CNPS:</p>	<p>-- -- 1B.1</p>	<p>An annual herb inhabiting vernal mesic meadows and seeps and sub-alkaline flats within valley and foothill grassland communities. Known only from six extant occurrences. Flowers April - May (6-246 feet).</p>	<p>A</p>	<p>Presumed Absent: The BSA does contain valley grasslands; however, the web soil survey report (NCRS 2018) for the Project does not indicate any of the soils within the BSA to be highly alkaline. Therefore, suitable soils for the species do not exist within the BSA. The nearest presumed extant occurrence is approximately 15 miles from the BSA. Due to the lack of suitable soils and the distance from extant occurrences, the species is presumed absent from the BSA.</p>
<p>Heckard's pepper-grass</p>	<p><i>Lepidium latipes var. heckardii</i></p>	<p>Fed: State: CNPS:</p>	<p>-- -- 1B.2</p>	<p>An annual herb found in alkaline flats within valley or foothill grasslands. Flowers March-May (0 - 660 feet).</p>	<p>A</p>	<p>Presumed Absent: The BSA does contain valley grasslands; however, the web soil survey report (NCRS 2023) for the Project does not indicate any of the soils within the BSA to be highly alkaline. Therefore, suitable soils for the species do not exist within the BSA. The nearest presumed extant occurrence is approximately 7 miles southwest of the BSA (2010). Due to the lack of suitable soils and the distance from extant occurrences, the species is presumed absent from the BSA.</p>
<p>Legenere</p>	<p><i>Legenere limosa</i></p>	<p>Fed: State: CNPS:</p>	<p>-- -- 1B.1</p>	<p>An annual herb inhabiting wet areas, vernal pools, and ponds. Flowers May-June (0-2,887 feet).</p>	<p>P</p>	<p>Low Potential: The BSA contains shallow aquatic habitat that has potential to support the species. There are 19 documented CNDDDB occurrences within 10 miles of the BSA. The nearest presumed extant CNDDDB occurrence is approximately 2 miles east of the BSA (1991). The species was not observed within the BSA during the focused rare plant surveys conducted in 2018. However, due to the presence of potentially suitable habitat and the proximity to the presumed extant occurrences, the species has a low potential of occurring within the BSA.</p>

Marsh skullcap	<i>Scutellaria galericulata</i>	Fed: -- State: -- CNPS: 2B.2	A	A perennial rhizomatous herb inhabiting wet sites and streambanks of lower montane coniferous forest, mesic meadows and seeps, and marsh and swamp communities. Flowers June-September (0 -6,889 feet).	Presumed Absent: The BSA does not contain suitable lower montane coniferous forest or mesic meadow habitat. The nearest presumed extant occurrence of the species is approximately 12 miles from the BSA. Due to the lack of suitable habitat the species is presumed absent from the BSA.
Mason's lilaeopsis	<i>Lilaeopsis masonii</i>	Fed: -- State: R CNPS: 1B.2	A	A perennial rhizomatous herb found exclusively in the Sacramento-San Joaquin River Delta and San Francisco Bay. Found in low elevation freshwater and brackish marshes adjacent to surface water. Flowers June - August (0 - 100 feet).	Presumed Absent: The BSA is not located within the Sacramento-San Joaquin River Delta or San Francisco Bay area in which the species exclusively occurs. The nearest presumed extant occurrence of the species is approximately 10 miles from the BSA within the Sacramento Delta channel. Due to the location of the BSA and the distance to extant populations, the species is presumed absent from the BSA.
Pappose tarplant	<i>Centromadia parryi ssp. parryi</i>	Fed: -- State: -- CNPS: 1B.2	A	An annual herb inhabiting chaparral, coastal scrub, meadows, seeps, marshes, swamps (coastal salt), and valley foothill grasslands often with alkaline soils. Flowers May - November (0 - 1377 ft.).	Presumed Absent: The BSA contains potentially suitable valley grassland habitat; however, the web soil survey report (NCRS 2018) for the Project does not indicate any of the soils within the BSA to be highly alkaline. Therefore, suitable soils for the species do not exist within the BSA. There are also no presumed extant CNDDDB occurrences within 10 miles of the BSA. Due to the lack of suitable soils and the lack of local occurrences, the species is presumed absent from the BSA.
Peruvian dodder	<i>Cuscuta obtusiflora var. glandulosa</i>	Fed: -- State: -- CNPS: 2B.2	A	An annual parasitic vine inhabiting freshwater marsh communities on herbs such as Alternanthera sp., Dalea sp., Lythrum sp., Polygonum sp., and Xanthium sp. Flowers July - October (49-1,640 feet).	Presumed Absent: The species has not been documented since the 1940's within California, of which one occurrence is noted as questionable by CNDDDB approximately 3 miles from the BSA. Given that the species is presumed to be extirpated from the area, it is presumed absent from the BSA.

Sacramento Orcutt grass	<i>Orcuttia viscida</i>	Fed: State: CNPS:	E E 1B.2	An annual herb inhabiting vernal pools. Flowers April-July (98-328 feet).	A	<p>Presumed Absent: The BSA lacks vernal pool habitat and is below the known elevation range of the species. The nearest presumed extant population is approximately 11 miles from the BSA with the species known elevation range. Due to being outside of the species known elevation range, the species is presumed absent from the BSA.</p> <p>FESA Determination: No effect</p>
Sanford's arrowhead	<i>Sagittaria sanfordii</i>	Fed: State: CNPS:	-- -- 1B.2	A perennial rhizomatous herb inhabiting freshwater marshes, swamps, ponds and ditches. Flowers May-October (0-2,132 feet).	P	<p>Moderate Potential: The BSA contains potentially suitable freshwater marsh and creek channels required for the species. There are 31 documented CNDDDB species occurrences within 10 miles of the BSA. The nearest presumed extant CNDDDB occurrence of the species is approximately 1 mile north of the BSA (1996). Due to potentially suitable habitat within the BSA along with the abundance of local occurrences, this species has a moderate potential to occur.</p>
Saline clover	<i>Trifolium hydrophilum</i>	Fed: State: CNPS:	-- -- 1B.2	An annual herb inhabiting mesic, alkaline soils of salt marsh, marshes and swamps, vernal pools, and valley and foothill grasslands. Flowers April-June (0 - 1,000 feet).	A	<p>Presumed Absent: The BSA lacks alkaline soils required by the species (NCRS 2018). In addition, the BSA lacks saline marsh habitat where this species is normally found. The nearest presumed extant occurrence is approximately 6 miles southwest of the BSA (2009). Due to the lack of suitable soils, lack of salt marsh habitat and the distance from extant occurrences, the species is presumed absent from the BSA.</p>
Side-flowering skullcap	<i>Scutellaria lateriflora</i>	Fed: State: CNPS:	-- -- 2B.2	A perennial rhizomatous herb inhabiting mesic meadow and seeps and marsh and swamp communities. Known in CA from only three occurrences in the	A	<p>Presumed Absent: The BSA is not located within the Sacramento-San Joaquin River Delta. There are also no documented CNDDDB occurrences within 10 miles of the BSA. Due to the location of</p>

				Sacramento-San Joaquin Delta. Flowers July (0-1,640 feet).		the BSA and the distance to extant populations, the species is presumed absent from the BSA.
Slender Orcutt grass	<i>Orcuttia tenuis</i>	Fed: State CNPS:	T E 1B.1	An annual herb inhabiting vernal pools, often within gravelly soils. Flowers May-October (115-5,774 feet).	A	Presumed Absent: The BSA lacks vernal pool habitat and is below the known elevation range of the species. The nearest presumed extant CNDDDB occurrence is approximately 6 miles northeast of the BSA within the species known elevation range. Due to lack of suitable habitat, this species is presumed absent from the BSA. FESA Determination: No effect
Suisun marsh aster	<i>Symphyotrichum lentum</i>	Fed: State CNPS:	-- -- 1B.2	A perennial rhizomatous herb inhabiting wetlands, freshwater marsh, and brackish-marsh communities. Flowers May-November (0-984 feet).	A	Presumed Absent: The BSA is outside of the known range of the species, which is the Sacramento Delta region. Additionally, there are no documented CNDDDB occurrences within 10 miles of the Project area. Due to the lack of local occurrences, this species is presumed absent from the BSA.
Watershield	<i>Brasenia schreberi</i>	Fed: State CNPS:	-- -- 2B.3	A perennial rhizomatous aquatic herb inhabiting ponds, slow streams and freshwater marsh and swamp communities. Flowers June-September (98-7,217 feet).	A	Presumed Absent: The BSA contains potentially suitable slow-moving stream channel habitat; however, the BSA is below the known elevation range of the species. The nearest presumed extant CNDDDB occurrence is approximately 8 miles southwest of the BSA within the species known elevation range. Due to lack of suitable habitat, the species is presumed absent from the BSA.
Woolly rose-mallow	<i>Hibiscus lasiocarpus var. occidentalis</i>	Fed: State CNPS:	-- -- 1B.2	A perennial rhizomatous herb inhabiting freshwater wetlands, wet banks, and marsh communities. Often found in-between riprap on levees. Flowers June-September (0-394 feet).	P	Moderate Potential: The BSA contains potentially suitable aquatic habitats for the species. The nearest presumed extant occurrence is approximately 5 miles west of the BSA (2009). Due to the presence of potentially suitable habitat and the distance to extant occurrences, the

						species is considered to have a moderate potential to occur within the BSA.
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<p>Federal Designations (Fed): (FESA, USFWS) E: Federally listed, endangered T: Federally listed, threatened C: Candidate P: Proposed</p>	<p>State Designations (CA): (CESA, CDFW) E: State-listed, endangered T: State-listed, threatened</p>
<p>Other Designations CDFW_SSC: CDFW Species of Special Concern CDFW_FP: CDFW Fully Protected</p>	
<p>California Native Plant Society (CNPS) Designations: <i>*Note: according to CNPS (Skinner and Pavlik 1994), plants on Lists 1B and 2 meet definitions for listing as threatened or endangered under Section 1901, Chapter 10 of the California Fish and Game Code. This interpretation is inconsistent with other definitions.</i> 1A: Plants presumed extinct in California. 1B: Plants rare and endangered in California and throughout their range. 2: Plants rare, threatened, or endangered in California but more common elsewhere in their range. 3: Plants about which need more information; a review list.</p>	
<p>Plants 1B, 2, and 4 extension meanings: _1 Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat) _2 Fairly endangered in California (20-80% occurrences threatened) _3 Not very endangered in California (<20% of occurrences threatened or no current threats known)</p>	
<p>Habitat Potential Absent [A] - No habitat present and no further work needed. Habitat Present [P] - Habitat is or may be present. The species may be present.</p>	
<p>Potential for Occurrence Criteria: Present: Species was observed on site during a site visit or focused survey and will likely be present during implementation of the Project. High: Habitat (including soils and elevation factors) for the species occurs on site and a known occurrence has been recorded within 5 miles of the site. Moderate: Potentially suitable habitat occurs onsite but there are a lack of local recent occurrences. Low: Marginally suitable habitat or low quality habitat onsite and there are no recent occurrences of the species near the Project vicinity. Presumed Absent: Focused surveys were conducted, and the species was not found, or species was found within the database search, but habitat (including soils and elevation factors) do not exist on site, or the known geographic range of the species does not include the survey area.</p>	
<p>Source: (CDFW 2024b), (CNPS 2024), (Calflora 2024), (Jepson 2024), (USFWS 2024), (NMFS 2024).</p>	

Chapter 4. Results: Biological Resources, Discussion of Impacts, and Mitigation

4.1 Habitats and Natural Communities of Special Concern

Habitats are considered to be of special concern based on Federal, state, or local laws regulating their development; limited distributions; and/or the habitat requirements of special-status plants or animals occurring on site. Wetlands and waters of the U.S. are also considered sensitive by both Federal and state agencies. Laguna Creek, Whitehouse Creek, emergent wetlands, seasonal wetland swales, and seasonal wetlands have been identified as natural communities of special concern within the BSA and are discussed in this section. Additionally, annual grassland is discussed as a habitat of special concern as it may serve as potential foraging and nesting habitat for several special status species such as: burrowing owl, Swainson’s hawk, GGS, and white-tailed kite. **Table 3. Impacts to Sensitive Natural Habitats** and **Figure 5. Project Impacts** outline the impacts of the Project on this community. Avoidance and minimization, and compensatory mitigation measures concerning Laguna Creek, Whitehouse Creek, emergent wetlands, seasonal wetland swales, seasonal wetlands, and annual grassland habitat are discussed in detail in their respective sections.

Table 3. Impacts to Sensitive Natural Habitats

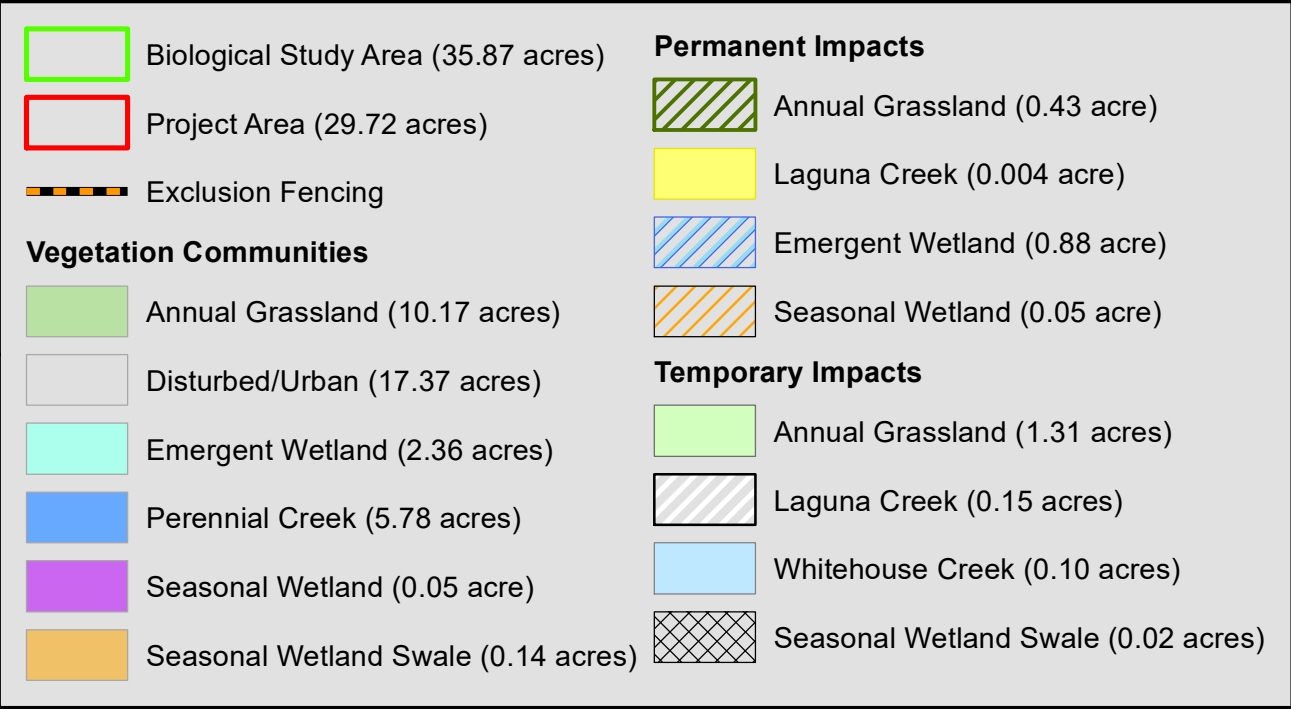
Impact Type (acres)	Habitat and Natural Communities of Special Concern					
	Laguna Creek	Whitehouse Creek	Emergent Wetland	Seasonal Wetland	Annual Grassland	Seasonal Wetland Swale
Temporary	0.15	0.10	0	0	1.31	0.02
Permanent	0.004	0	0.88	0.05	0.43	0
Total	0.154	0.10	0.88	0.05	1.66	0.02

4.1.1 Discussion of Laguna Creek

Laguna Creek is a natural riverine tributary of Morriston Creek that runs east to west through central Sacramento County. Surface water in Laguna Creek persists throughout the growing season in most years. When surface water is absent, the water table is usually at or very near the land surface.

4.1.1.1 Survey Results for Laguna Creek

The BSA contains approximately 2,300 linear feet (~5.19 acres) of Laguna Creek. This segment of Laguna Creek within the BSA is bordered by annual grasslands, emergent wetlands, and disturbed/urban habitat communities and flows east to west underneath the bridge along SR 99. Vegetation within Laguna Creek is dominated by swamp smartweed. Emergent vegetation along the creek banks within the BSA is dominated by soft rush, tall flatsedge, tule and spike rush.



Laguna Creek Bypass Channel

V:\3040 Laguna Creek Trail Crossing\Biology\F5_Protect Impacts.mxd

Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd

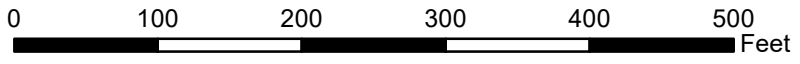


FIGURE 5
Project Impacts

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

4.1.1.2 Project Impacts to Laguna Creek

The Project would have temporary and permanent impacts to Laguna Creek. The construction of the multi-use trail will permanently impact approximately 0.004 acres (157 square feet) of Laguna Creek, as this section of the creek is within the cut and fill limits. Additionally, approximately 0.15 acres of Laguna Creek would be temporarily impacted during construction to allow for temporary construction access and easements, and construction of the multi-use trail. Temporary impacts may include but are not limited to, de-watering, installation of a temporary water diversion, grading, and compaction. All temporary impacts to Laguna Creek will be restored to previous existing conditions upon completion of construction (**Table 3; Figure 5**).

4.1.1.3 Avoidance and Minimization Efforts for Laguna Creek

The following avoidance, minimization, and mitigation measures will be incorporated into the Project design and Project construction to reduce potential impacts to Laguna Creek and other jurisdictional waters within the BSA.

BIO-1: Every individual working on the Project must attend a biological awareness training session delivered by the USFWS and/or CDFW approved Project biologist. This training program will include information regarding the sensitive habitats and special-status species that may occur within the Project area, and the importance of avoiding impacts to these species and their habitat.

BIO-2: Prior to the start of construction activities, the Project limits within environmentally sensitive areas (Laguna Creek, Whitehouse Creek, annual grasslands, emergent wetlands, seasonal wetland, and seasonal wetland swale), will be marked with temporary high visibility fencing or staking to ensure construction will not further encroach into sensitive resources. Environmentally sensitive areas will be marked on project plans.

BIO-3: BMPs will be incorporated into Project construction to minimize impacts on the environment including erosion and the release of pollutants (e.g. oils, fuels):

- Exposed soils and material stockpiles would be stabilized, through watering or other measures, to prevent the movement of dust at the Project site caused by wind and construction;
- Implementation of the Project shall require approval of a site-specific SWPPP or Water Pollution Control Program that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- All construction roadway areas would be properly protected to prevent excess erosion, sedimentation, and water pollution;
- All vehicle and equipment fueling/maintenance would be conducted outside of any surface waters;
- Equipment used in and around jurisdictional waters must be in good working order and free of dripping or leaking contaminants;

- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering jurisdictional waters;
- All erosion control measures, and storm water control measures would be properly maintained until the site has returned to a pre-construction state;
- All construction materials would be hauled off-site after completion of construction;
- Upon completion of construction activities, any temporary barriers to surface water flow must be removed in a manner that would allow flow to resume with the least disturbance to the substrate.

BIO-4: Vegetation removal will not exceed what is shown on the plans without prior approval from the Project biologist. If trees will be trimmed rather than removed, trimming must comply with ANSI A300 pruning standards and must not:

- leave branch stubs
- make unnecessary heading cuts
- cut off the branch collar (not make a flush cut)
- top or lion's tail trees (stripping a branch from the inside leaving foliage just at the ends)
- remove more than 25 percent of the foliage of a single branch
- remove more than 25 percent of the total tree foliage in a single year
- damage other parts of the tree during pruning
- use wound paint
- climb the tree with climbing spikes

BIO-5: Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must remain outside of jurisdictional waters. Any necessary equipment washing must occur where the water cannot flow into water bodies.

BIO-6: A chemical spill kit must be kept onsite and available for use in the event of a spill.

4.1.1.4 Compensatory Mitigation for Laguna Creek

The Project would result in approximately 0.004 permanent impacts to Laguna Creek and temporary impacts will consist of approximately 0.15 acres. In addition to avoidance and minimization measures **BIO-1** through **BIO-6**, the following compensatory mitigation will be required:

BIO-7: The City of Elk Grove will fulfill all compensatory mitigation required by permitting agencies (CDFW, USFAC, RWQCB) as outlined in the final environmental permits acquired for the Project. Compensatory mitigation will be developed during the permitting phase and is anticipated to be required for all aquatic resources impacted by the Project including, Laguna Creek, Whitehouse Creek, seasonal wetland, seasonal wetland swale and emergent wetland. The mitigation may consist of credit purchases, in lieu fee payments, or on/offsite habitat enhancement or restoration. All temporary impacts will be mitigated at a minimum 1:1 ratio and all permanent impacts will be mitigated at a minimum of 2:1 ratio.

4.1.1.5 Cumulative Impacts to Laguna Creek

The City is working on several projects along the LCIRT which has been identified as a high priority project by the City's Trail Committee. These projects are in various stages of planning and design and will improve bicycle and pedestrian facilities along this trail corridor. The implementation of these projects and any other projects occurring in or adjacent to Laguna Creek would be considered separate from the proposed Project and will undergo independent environmental analyses; thus, the Project is not anticipated to contribute to cumulative impacts to Laguna Creek.

4.1.2 Discussion of Whitehouse Creek

Whitehouse Creek is a man-made excavated creek that flows from east to west through central Sacramento County and has been redirected around residential developments north of the BSA. Whitehouse Creek joins Laguna Creek within the BSA approximately 0.25 miles east of East Stockton Boulevard. Surface water within Whitehouse Creek is present for extended periods especially early in the growing season but is absent by the end of the growing season in most years. The water table is variable, extending from saturated to the surface to a water table well below the ground surface.

4.1.2.1 Survey Results for Whitehouse Creek

The BSA contains approximately 500 linear feet (~0.50 acres) of Whitehouse Creek. This segment of Whitehouse Creek within the BSA is bordered by annual grasslands, seasonal wetlands, and seasonal wetland swale communities and flows from south to north on the eastern side of the BSA. Vegetation within Whitehouse Creek is dominated by swamp smartweed. Emergent vegetation along the creek banks within the BSA is dominated by soft rush, tall flatsedge, tule, and spike rush.

4.1.2.2 Project Impacts to Whitehouse Creek

The Project would result in approximately 0.10 acres of temporary impacts to Whitehouse Creek to allow for construction of the new single-span pedestrian overcrossing/bridge (**Table 3; Figure 5**). Temporary impacts would include de-watering or installation of a temporary water diversion within Whitehouse Creek. All materials would be removed upon completion of the crossing. No permanent impacts to Whitehouse Creek are anticipated.

4.1.2.3 Avoidance and Minimization Efforts for Whitehouse Creek

With the incorporation of the avoidance and minimization measure **BIO-1** through **BIO-6**, impacts to Whitehouse Creek would be avoided.

4.1.2.4 Compensatory Mitigation for Whitehouse Creek

The Project would result in approximately 0.10 acres of temporary impacts to Whitehouse Creek. With the incorporation of compensatory mitigation as outlined in measure **BIO-7** the City will mitigate for temporary impacts to Whitehouse Creek.

4.1.2.5 Cumulative Impacts to Whitehouse Creek

The City is working on several projects along the LCIRT which has been identified as a high priority project by the City's Trail Committee. These projects are in various stages of planning and design and will improve bicycle and pedestrian facilities along this trail corridor. Construction from these projects and any other projects occurring in or adjacent to Whitehouse Creek would be considered separate from the proposed Project and would conduct independent environmental analyses; thus, the Project is not anticipated to contribute to cumulative impacts to Whitehouse Creek.

4.1.3 Discussion of Annual Grasslands

Annual grassland habitats are generally comprised of annual plant species such as grasses and forbs. Plant diversity within annual grassland habitat, within the BSA, is influenced by annual rainfall. Many wildlife species use annual grasslands for foraging, but often require other adjacent habitat communities or features for breeding, nesting, or refuge. This habitat usually occurs within flat plains or gently rolling hills.

4.1.3.1 Survey Results for Annual Grasslands

The Project area contains approximately 10.17 acres of annual grassland habitat. The largest, continuous patch of annual grassland occurs northwest of the confluence of Whitehouse Creek and Laguna Creek within the eastern portion of the BSA. The dominant plant species observed within this habitat include several invasive species: wild oat, Italian rye grass, medusahead, and curly dock. However, this habitat community supports many local wildlife species and has the potential to provide suitable habitat for multiple special-status species, as further discussed in Section 4.3. Therefore, annual grassland habitat within the BSA is considered a natural community of special concern for this project.

4.1.3.2 Project Impacts to Annual Grasslands

The Project would have temporary and permanent impacts to annual grassland habitat including approximately 1.31 acres of temporary impacts, and approximately 0.43 acres of permanent impacts. Temporary impacts will result from construction access to build the trail, and permanent impacts will include permanent fill for the trail alignment (**Table 3; Figure 5**).

4.1.3.3 Avoidance and Minimization Efforts for Annual Grasslands

The incorporation of avoidance and minimization measures **BIO-1** and **BIO-2** would reduce potential impacts to annual grasslands within the Project area. Additionally, the following measure would further minimize the temporary impacts to annual grassland habitat and other natural communities of special concern.

BIO-8: Following the completion of construction, soils that have been temporarily disturbed within sensitive upland/aquatic habitat (annual grasslands, emergent wetlands, seasonal wetland, and seasonal wetland swale) will be decompacted and seeded with California native plant species. At least two seed mixes will be developed, one for upland habitats and one for wetland habitats. The upland seed mix will contain narrowleaf milkweed (*Asclepias fascicularis*). The native seed mix must be approved by the Project biologist and seeds must be sourced within 50 miles of the Project site from within the Central Valley region. Seed mixes will be developed to kick start vegetation growth, stabilize soils, and reestablish plant diversity. The final post-construction seed mix must be applied between October-February.

4.1.3.4 Compensatory Mitigation for Annual Grasslands

In addition to avoidance and minimization measures **BIO-1**, **BIO-2**, and **BIO-7**, compensatory mitigation will be required for special status species associated with annual grassland habitat (**BIO-11** in Section 4.3.1). Given implementation of these measures, no additional compensatory mitigation is proposed for impacts to annual grassland habitat.

4.1.3.5 Cumulative Impacts to Annual Grasslands

The Project is located adjacent to residential communities and commercial properties; any other projects occurring within annual grassland habitat near the Project would be separate from the proposed Project and would undergo independent environmental analysis. Therefore, the Project is not anticipated to contribute to cumulative impacts to annual grassland habitat.

4.1.4 Discussion of Emergent Wetlands

Emergent wetlands are characterized by erect, rooted herbaceous hydrophytes. Dominant vegetation is generally perennial monocots. All emergent wetlands are flooded frequently, enough so that the roots of the vegetation prosper in an anaerobic environment. The vegetation may vary in size from small clumps to vast areas covering several kilometers. The acreage of fresh emergent wetlands in California has decreased dramatically since the turn of the century due to drainage and conversion to other uses, primarily agriculture. Fresh emergent wetlands are among the most productive wildlife habitats in California. They provide food, cover, and water for more than 160 species of birds, and numerous mammals, reptiles, and amphibians.

4.1.4.1 Survey Results for Emergent Wetlands

Jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018, to identify jurisdictional resources present within the BSA. Wetland delineations were conducted in accordance with technical methods outlined in the Corps of Engineers Wetlands Delineation Manual (USACE 1987), *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008), and *A Field Guide to the Identification of the OHWM in the Arid West Region of the Western United States* (Lichvar 2008). During these survey efforts two emergent wetlands were identified within the BSA.

The Project area contains approximately 2.36 acres of emergent wetland habitat. Within the BSA the largest patch of emergent wetland habitat is located along the northern banks of Laguna Creek adjacent to both sides of SR 99. On the upper margins of this habitat, saturated or periodically flooded soils support several moist soil plant species including soft rush, tall flatsedge, and saltgrass. Lower, wetter portions of freshwater emergent wetlands in the Project area are composed of swamp smartweed and tule.

4.1.4.2 Project Impacts to Emergent Wetlands

The Project would have impacts to one emergent wetland located east of SR 99. Approximately 0.25 acres of emergent wetland will be permanently filled as a result of the multi-use path. Additionally, approximately 0.63 acres of emergent wetland habitat will be impacted as a result of construction access, which may include clearing/grubbing, soil compaction, and disturbance of topsoil. Ultimately, the locations and types of impacts to the emergent wetland would permanently alter the hydrology, soils and vegetation that support a wetland community which would result in the permanent loss of wetland function and value. Exclusion fencing will be erected around the limits of the temporary and permanent impacts to prevent encroachment of personnel or equipment into sensitive habitat. No vegetation removal will be permitted outside of the exclusion

fencing. Furthermore, since the emergent wetland is hydrologically connected to Laguna Creek, it is expected to retain its wetland hydrology and characteristics throughout and after Project implementation. Therefore, the emergent wetland habitat beyond the exclusion fencing is not anticipated to be impacted by Project activities. (**Table 3; Figure 5**). The net permanent impact to emergent wetland habitat is approximately 0.88 acres. No direct or indirect impacts to the emergent wetland habitat west of SR 99 are anticipated.

4.1.4.3 Avoidance and Minimization Efforts for Emergent Wetlands

With the incorporation of the avoidance and minimization measures **BIO-1** through **BIO-3** and **BIO-5** through **BIO-6**, impacts to emergent wetlands would be minimized.

4.1.4.4 Compensatory Mitigation for Emergent Wetlands

Compensatory mitigation will be required for impacts to emergent wetlands. Measure **BIO-7** in Section 4.1.1. will ensure the appropriate compensatory mitigation is fulfilled in accordance with permitting agencies. Permanent impacts to emergent wetlands will be compensated at a minimum of 2:1 ratio.

4.1.4.5 Cumulative Impacts to Emergent Wetlands

Cumulative impacts to emergent wetland habitat include altered hydrology due to placement of fill within the boundaries of the wetland. This process will result in a permanent net loss of approximately 0.88 acres of emergent wetland habitat. Since a portion of the emergent wetland will be paved over to create the multi-use trail, loss of habitat will also occur for species that may use the wetland for survival or reproduction. Furthermore, wetland loss can add stress to the remaining wetlands, decrease local landscape diversity and decrease connectivity among aquatic resources (U.S. EPA, 2024). However, emergent wetland impacts associated with the Project will be appropriately mitigated per measure **BIO-7**, and therefore are not anticipated to result in a cumulative impact.

4.1.5 Discussion of Seasonal Wetlands

Seasonal wetlands can be identified by the presence of all three key wetland indicator characteristics – hydrophytic vegetation, hydric soils, and wetland hydrology. Seasonal wetlands are flooded frequently, creating unique anaerobic conditions which support soils and vegetation typically not found in upland areas. Wetlands are productive habitats, and their distinctive conditions warrant consideration as a vital part of a hydrologic system.

4.1.5.1 Survey Results for Seasonal Wetlands

Jurisdictional delineations conducted on April 24 – April 26, 2018, identified 2 seasonal wetlands within the BSA. The seasonal wetlands within the BSA are hydraulically connected to and influenced by the adjacent perennial stream channels, Laguna and Whitehouse Creeks. The Project area contains approximately 0.05 acres of seasonal wetland habitat. The two seasonal wetlands are found in the large continuous patch of annual grassland habitat that occurs northwest of the confluence of Whitehouse Creek and Laguna Creek within the eastern portion of the BSA. Dominant vegetation within the seasonal wetland includes curly dock, cutleaf geranium, field mustard, English plantain, and Himalayan blackberry.

4.1.5.2 Project Impacts to Seasonal Wetlands

The Project would impact both seasonal wetlands located within the BSA. Approximately 0.006 acres (200 square feet) of seasonal wetland habitat will be permanently filled as a result of the multi-use path. Additionally, approximately 0.03 acres of seasonal wetland habitat will be impacted as a result of construction access, which may include clearing/grubbing, soil compaction, and disturbance of topsoil. Ultimately, the locations and types of impacts to the seasonal wetlands would permanently alter the hydrology, soils and vegetation that support a wetland community. The remaining portions of seasonal wetland habitat would no longer contain the same habitat value or function; and therefore, the entire boundary of seasonal wetland habitat is considered to be a permanent impact (**Table 3; Figure 5**). The net permanent impact to seasonal wetland habitat is approximately 0.05 acres.

4.1.5.3 Avoidance and Minimization Efforts for Seasonal Wetlands

With the incorporation of the avoidance and minimization measures **BIO-1** through **BIO-3** and **BIO-5** through **BIO-6**, impacts to seasonal wetlands would be minimized.

4.1.5.4 Compensatory Mitigation for Seasonal Wetlands

Compensatory mitigation will be required for impacts to seasonal wetlands. Compensatory mitigation will be implemented for seasonal wetlands in accordance with measure **BIO-7**. Permanent impacts to seasonal wetlands will be compensated at a minimum of 2:1 ratio; however, final compensatory mitigation will be developed with regulatory agencies during the permitting phase of the Project.

4.1.5.5 Cumulative Impacts to Seasonal Wetlands

Cumulative impacts to the seasonal wetland habitat include altered hydrology due to placement of fill within the boundaries of the wetland. This process will result in a permanent net loss of approximately 0.05 acres of seasonal wetland habitat. Since both seasonal wetlands will be paved over to create the multi-use trail, loss of habitat will also occur for species that may use the wetland for survival or reproduction. Furthermore, wetland loss can add stress to the remaining wetlands, decrease local landscape diversity and decrease connectivity among aquatic resources (U.S. EPA, 2024). However, seasonal wetland impacts associated with the Project will be appropriately mitigated per measure **BIO-7**, and therefore are not anticipated to result in a cumulative impact.

4.1.6 Discussion of Seasonal Wetland Swale

Seasonal wetland swales are defined as low meandering channels that tend to be saturated long enough to support vegetative associations. Swale features often represent the headwaters of streams, connect seasonal wetlands, and/or drain small watersheds into defined creeks. Swales can be supported by minor groundwater seepage.

4.1.6.1 Survey Results for Seasonal Wetland Swale

Jurisdictional delineations conducted on April 24 – April 26, 2018, identified two seasonal wetland swales within the BSA. The seasonal wetland swales within the BSA are hydraulically connected to and influenced by the adjacent perennial stream channels, Laguna and Whitehouse Creeks, as well as the adjacent seasonal wetlands. The Project area contains approximately 0.14 acres of seasonal wetland swale habitat, with one smaller swale occurring west of Whitehouse Creek and a larger swale located east of Whitehouse Creek. Vegetation within seasonal wetland swale habitat consists of curly dock, yellow starthistle, Italian ryegrass, ripgut brome, and other nonnative grasses.

4.1.6.2 Project Impacts to Seasonal Wetland Swale

The Project would impact both of the seasonal wetland swales within the BSA. No permanent fill will be placed within seasonal wetland swale habitat. However, the boundary of the swale is within close proximity to the proposed pedestrian overcrossing/bridge over Whitehouse Creek. Therefore, construction access will be required along the outer margin of the seasonal wetland swale. Approximately 0.02 acres of temporary impacts are anticipated, and are likely to consist of clearing/grubbing, soil compaction, and disturbance of topsoil (**Table 3; Figure 5**). However, the impacts are on the edge of the seasonal wetland swale, and the majority of the aquatic feature will remain intact; and therefore, will retain its value and function as wetland habitat upon completion of the Project. Additionally, the edge of the wetland will be revegetated with California native seed mix, appropriate for wetland habitat, in accordance with measure **BIO-7**. Furthermore, due to the direct surface connection of the seasonal wetland swale located west of Whitehouse Creek to the seasonal wetland to the north, indirect impacts to seasonal wetland swale habitat are anticipated. Potential impacts to the seasonal wetland swale may include changes in hydrology, soils and vegetation due to the filling of the adjacent seasonal wetland. These impacts are included in the total temporary impacts to seasonal wetland swale habitat of approximately 0.02 acres.

4.1.6.3 Avoidance and Minimization Efforts for Seasonal Wetland Swale

With the incorporation of the avoidance and minimization measures **BIO-1** through **BIO-3** and **BIO-5** through **BIO-6**, permanent impacts to the seasonal wetland swale would be avoided.

4.1.6.4 Compensatory Mitigation for Seasonal Wetland Swale

Compensatory mitigation will be required for impacts to seasonal wetland swale habitat. Compensatory mitigation will be implemented for seasonal wetlands in accordance with measure **BIO-7**. Permanent impacts to seasonal wetland swales will be compensated at a minimum of 2:1 ratio; however, final compensatory mitigation will be developed with regulatory agencies during the permitting phase of the Project.

4.1.6.5 Cumulative Impacts to Seasonal Wetland Swale

The Project will temporarily impact approximately 0.02 acres of seasonal wetland swale habitat. However, with the inclusion of compensatory mitigation for Project impacts to jurisdictional waters, no cumulative impacts to seasonal wetland swale habitat is anticipated.

4.2 Special Status Plant Species

Prior to field surveys, a list of regional special status plant species with potential to occur within the Project vicinity was compiled from database searches. The potential for each species to occur within the BSA was determined by analyzing the habitat requirements of each species and

comparing the habitat requirements to available habitat within the BSA. After a careful comparison between habitat requirements and the habitat available within the BSA, six special status plants were determined to have potential to occur: alkali-sink goldfields, Boggs Lake hedge-hyssop, dwarf downingia, legenera, Sanford's arrowhead, and woolly rose-mallow. Rare plant surveys were conducted April 24, 25 and 26, 2018, by Dokken biologists Andrew Dellas and Courtney Owens, as well as June 21, 2018, by Dokken Engineering biologist Andrew Dellas and Scott Salembier. Rare plant surveys included habitat assessments, and focused surveys for special status plant species. No special status plant species were identified during the survey efforts. No Project-related impacts to special status plant species are anticipated.

4.2.1 Discussion of Special Status Plant Species

The following species, including alkali sink goldfields, Boggs Lake Hedge-hyssop, dwarf downingia, legenera, Sanford's arrowhead, and woolly rose-mallow, are discussed together in the following section due to shared habitat requirements and avoidance and minimization measures.

Alkali Sink Goldfields

Alkali sink goldfields is not a state or federally listed species but is a CNPS rare plant rank 1B.1. This species is an annual herb found in alkali sinks, valley grassland, vernal pools, saline flats, and wetland-riparian areas. The species blooms February-June at elevations at and lower than 300 feet.

Boggs Lake Hedge-Hyssop

Boggs Lake hedge-hyssop is not federal listed but is endangered under CESA and has a CNPS rare plant rank of 1B.2. Boggs Lake hedge-hyssop is an annual herb inhabiting clay soils and shallow waters of marshes and swamps, lake margins, and vernal pools. The species flowers from April-August at elevations ranging from 33-7,792 feet.

Dwarf Downingia

Dwarf downingia is not a state or federal listed species but is a CNPS rare plant rank 2B.2. Dwarf downingia is an annual herb inhabiting vernal pools and mesic valley and foothill grassland communities. The species flowers from March-May at elevations ranging from 3-1,460 feet.

Legenera

Legenera is not a state or federal listed species but is a CNPS rare plant rank 1B.1. Legenera is an annual herb inhabiting wet areas, vernal pools, and ponds. The species flowers from May-June at elevations ranging from 0-2,887 feet.

Sanford's Arrowhead

Sanford's arrowhead is not a state or federal listed species but is a CNPS rare plant rank 1B.2. Sanford's arrowhead is a perennial rhizomatous herb inhabiting freshwater marshes, swamps, ponds and ditches. The species flowers from May-October at elevations ranging from 0-2,132 feet.

Woolly Rose-Mallow

Woolly rose-mallow is not a state or federal listed species but is a CNPS rare plant rank 1B.2. Woolly rose-mallow is a perennial rhizomatous herb inhabiting freshwater wetlands, wet banks, and marsh communities, and is often found in-between riprap on levees. The species flowers from June-September at elevations ranging from 0-394 feet.

4.2.1.1 Survey Results for Special Status Plant Species

Alkali-sink goldfields

The BSA contains grassland habitat which may be suitable for the species. In addition, there is one CNPS occurrence approximately 2 miles northwest of the BSA from 2019. The species was not observed within the BSA during focused rare plant surveys conducted in April and June 2018. However, given the presence of potentially suitable habitat and lapse in time since the floristic surveys, the species has a low potential to occur within the BSA.

Boggs Lake hedge-hyssop

The BSA contains potentially suitable shallow aquatic habitat to support the species. The nearest presumed extant occurrence is approximately 2 miles east of the BSA (1991). The species was not observed within the BSA during focused rare plant surveys conducted in April and June 2018. However, given the presence of potentially suitable habitat and lapse in time since the floristic surveys, the species has a low potential to occur within the BSA.

Dwarf Downingia

The BSA contains potentially suitable shallow aquatic habitat to support the species. The nearest presumed extant occurrence is approximately 2 miles east of the BSA (1991). The species was not observed within the BSA during focused rare plant surveys conducted in April and June 2018. However, given the presence of potentially suitable habitat and lapse in time since the floristic surveys, the species has a low potential to occur within the BSA.

Legenere

The BSA contains potentially suitable shallow aquatic habitat in which the species is known to inhabit. The nearest presumed extant CNDDDB occurrence is approximately 2 miles east of the BSA (1991). The species was not observed within the BSA during focused rare plant surveys conducted in April and June 2018. However, given the presence of potentially suitable habitat and lapse in time since the floristic surveys, the species has a low potential to occur within the BSA.

Sanford's arrowhead

The BSA does contain potentially suitable emergent wetland and creek habitat. The nearest presumed extant occurrence of the species is approximately 1 mile north of the BSA (1996). This perennial species was not observed within the BSA during focused rare plant surveys conducted in April and June 2018. However, given the presence of potentially suitable habitat and lapse in time since the floristic surveys, the species has a moderate potential to occur within the BSA.

Woolly rose-mallow

The BSA contains potentially suitable aquatic habitat to support the species. The nearest presumed extant occurrence is within approximately 5 miles west of the BSA (2009). The focused rare plant surveys conducted in 2018 did not adequately cover the blooming period of this species, which occurs from June-September. Due to the presence of potentially suitable habitat and local extant occurrences of the species, woolly rose-mallow has a moderate potential to occur within the BSA.

4.2.1.2 Project Impacts to Special Status Plant Species

The Project will result in temporary and permanent impacts to grassland habitat, as well as shallow wetland habitat, including seasonal wetland, emergent wetland and seasonal wetland swale (see **Table 3** in Section 4.1). Although some of these species were not detected during the

2018 focused rare plant surveys, pursuant to the recommendations in the *Protocols for Surveying and Evaluating Impacts to Species Status Native Plant Populations and Natural Communities* (CDFW 2018), a single season of negative surveys is not sufficient to determine absence of a species. Therefore, a second round of rare plant surveys will be conducted during the bloom period prior to construction as described in measure **BIO-9**. With the inclusion of measure **BIO-9** below, no direct impacts to the species are anticipated.

4.2.1.3 Avoidance and Minimization Efforts for Special Status Plant Species

BIO-9: A focused rare plant survey will be conducted within the Project area prior to the start of construction. Surveys will be conducted during the appropriate blooming period for the following species: Alkali-sink goldfields, Boggs Lake hedge-hyssop, dwarf downingia, legenera, Sanford's arrowhead, and wooly rose-mallow. If rare plants are discovered during pre-construction surveys but can be reasonably avoided, ESA fence will be installed to protect the specimens in place.

If a special-status plant specimen is present within the Project area and cannot be fully avoided, the Project biologist will relocate individual(s) and/or collect seeds to ensure the continued existence of the local population. Area of relocation or re-seeding will be at the discretion of the Project biologist but will be located within suitable habitat and within the same watershed of the Project, preferably at a location that is protected in perpetuity. If relocation or seed collection of Boggs Lake hedge-hyssop is required a CDFW 2081 Incidental Take Permit must first be obtained.

4.2.1.4 Compensatory Mitigation for Special Status Plant Species

With the implementation of avoidance, minimization measure **BIO-9**, the Project will avoid potential effects to special-status plant species. Compensatory mitigation for special status plant species is not required or proposed at this time.

4.2.1.5 Cumulative Impacts for Special Status Plant Species

With the incorporation of the avoidance and minimization measure for special status plant species, and compensatory mitigation for the loss of potentially suitable emergent wetland, seasonal wetland, and annual grassland habitat, cumulative impacts to local special status plant populations are not anticipated.

4.3 Special Status Animal Species

Preliminary literature research was conducted to determine the special status wildlife species with the potential to occur in the BSA. A review of CNDDDB, USFWS, and NOAA Fisheries online databases concluded that 34 special status wildlife species had the potential to occur within the Project vicinity. Analysis of specific habitat requirements and current and historical occurrences determined the BSA was potentially suitable for following species: Swainson's hawk, white-tailed kite, burrowing owl, song sparrow "Modesto population", tricolored blackbird, yellow-headed blackbird, GGS, and NWPT.

All biological field surveys included a habitat assessment, and focused surveys for special status wildlife species. Swainson's hawk, white-tailed kite, NWPT, and Song sparrow ("Modesto" population) were observed during the biological surveys. No other special status species were observed during the field surveys, but they are still considered to have potential of occurring within

the BSA based on presence of potentially suitable habitat and recently documented regional occurrences, as detailed in Table 2.

4.3.1 Discussion of Swainson's Hawk

Swainson's hawk is state-listed as threatened. Swainson's hawk migrates annually from wintering areas in South America to breeding locations in northwestern Canada, the western U.S., and Mexico. In California, Swainson's hawks nest throughout the Sacramento Valley in large trees in riparian habitats and in isolated trees in or adjacent to agricultural fields. The breeding season extends from late March through late August, with peak activity from late May through July. In the Sacramento Valley, Swainson's hawks forage in large, open agricultural habitats, including alfalfa and hay fields (CDFW 1994). The breeding population in California has declined by an estimated 91% since 1900; this decline is attributed to the loss of riparian nesting habitats and the conversion of native grassland and woodland habitats to agriculture and urban development (CDFW 1994).

4.3.1.1 Swainson's Hawk Survey Results

The eastern edge of the BSA contains a patch of grassland habitat which provides potentially suitable foraging habitat for Swainson's hawk. The species was observed soaring over the BSA during the April 4, 2018, biological survey. Given this observation, the species has a high potential to utilize suitable foraging habitat within the BSA. The BSA lacks suitable nesting habitat for the species.

4.3.1.2 Project Impacts to Swainson's Hawk

The Project will permanently remove approximately 0.43 acres of potentially suitable Swainson's hawk foraging habitat due to the proposed trail alignment. Additionally, the Project will result in approximately 1.31 acres of temporary impacts to suitable foraging habitat, which may include construction access for personnel and equipment, clearing and grubbing, as well as grading and compaction.

However, the BSA lacks suitable nesting habitat for Swainson's hawk, and therefore, take of the species is not anticipated. With avoidance of take, a CDFW Section 2081 Incidental Take Permit for Swainson's hawk is not warranted for the Project.

4.3.1.3 Swainson's Hawk Avoidance and Minimization Efforts

The following protective measure has been incorporated to minimize and avoid impacts to Swainson's hawk:

BIO-10: No Project activity will be completed from March 1 through August 31 unless the Project biologist conducts Swainson's hawk nesting surveys within the work area and a ½ mile buffer, following survey methodology developed by the Swainson's Hawk Technical Advisory Committee prior to commencing Project activities. Should a nesting Swainson's hawk pair be found within ½ mile of the Project, the Project biologist will provide a no-work buffer recommendation to CDFW, as well as a plan to avoid take of the species. Project activities will not proceed until the appropriate no-work buffer is established, and the appropriate take avoidance strategies are implemented, as determined by the Project biologist.

4.3.1.4 Compensatory Mitigation for Swainson's Hawk

The following measure will compensate for the permanent loss of potentially suitable Swainson's hawk foraging habitat:

BIO-11: Annual grassland habitat within the Project area is considered Swainson's hawk foraging habitat and is protected under Chapter 16.130 of the City Municipal Code, Swainson's Hawk Impact Mitigation Fees. The City will mitigate for the permanent loss of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through participation in the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance, other method acceptable to the California Department of Fish and Wildlife, or other method acceptable to the Elk Grove City Council pursuant to Section 16.130.110.

4.3.1.5 Cumulative Impacts to Swainson's Hawk

With the implementation of avoidance, minimization, and mitigation measures **BIO-10** and **BIO-11**, the Project will avoid take of Swainson's hawk, and will offset the loss of suitable foraging habitat. Therefore, the Project is not anticipated to result in a cumulative impact to the local Swainson's hawk population.

4.3.2 Discussion of White-Tailed Kite

White-tailed kite is a fully protected species under CFG Code Section 3511. The species has a restricted distribution in the U.S., occurring only in California and western Oregon and along the Texas coast (American Ornithologists' Union 1983). The species is fairly common in California's Central Valley margins with scattered oaks and river bottomlands. White-tailed kites nest in riparian and oak woodlands and forage in nearby grasslands, pastures, agricultural fields, and wetlands. They use nearby treetops for perching and nesting sites. Voles and mice are common prey species.

4.3.2.1 White-Tailed Kite Survey Results

The BSA contains potentially suitable foraging habitat for the species. Additionally, the species was observed soaring in the Project vicinity during the April 4, 2018, and December 1, 2023, biological surveys. Due to the presence of suitable foraging habitat, and observance of the species during biological survey efforts, white-tailed kite has a high potential to utilize habitat within the BSA for foraging. The BSA lacks suitable nesting habitat for the species.

4.3.2.2 Project Impacts to White-Tailed Kite

The Project will permanently remove approximately 0.43 acres of potentially suitable white-tailed kite foraging habitat in order to accommodate the proposed trail alignment. Additionally, the Project will result in approximately 1.31 acres of temporary impacts to suitable foraging habitat, which may include construction access for personnel and equipment, clearing and grubbing, as well as grading and compaction.

4.3.2.3 White-Tailed Kite Avoidance and Minimization Efforts

With the implementation of avoidance, minimization, and mitigation measures **BIO-1**, **BIO-2** and **BIO-4**, the Project will avoid direct impacts to white-tailed kite. Furthermore, implementation of measure **BIO-8** will ensure areas of temporary impact are de-compacted and restabilized with application of California native seeds.

4.3.2.4 Compensatory Mitigation for White-Tailed Kite

White-tailed kite and Swainson's hawk share foraging habitats and it is anticipated that mitigation for Swainson's hawk grassland foraging habitat, as stated in measure **BIO-11**, will mitigate for the loss of white-tailed kite foraging habitat. Therefore, compensatory mitigation specific to this species is not required or proposed at this time.

4.3.2.5 Cumulative Impacts to White-Tailed Kite

With the implementation of compensatory mitigation measure **BIO-11**, the Project is not anticipated to result in a permanent loss of white-tailed kite foraging habitat that would result in a cumulative impact to the local population.

4.3.3 Discussion of Burrowing Owl

The burrowing owl is not a state or federally listed species but is a CDFW Species of Special Concern. The burrowing owl inhabits arid, open areas with sparse vegetation cover such as deserts, abandoned agricultural areas, grasslands, and disturbed open habitats. The species requires friable soils for burrow construction and prefers areas on bare, well drained, level to sloping sites. Typically, the species occupies small old mammal burrows, but has been known to utilize pipes, culverts and nest boxes when preferred burrows are absent. Burrowing owls may use a site for breeding, wintering, foraging, and/or migration stopovers. Breeding season takes place from February 1 to August 31 with peak breeding from March to August (CDFW 2012).

4.3.3.1 Burrowing Owl Survey Results

The annual grassland habitat within the BSA provides potentially suitable nesting and foraging habitat for the species. Several mammal burrows were observed during the April 4, 2018, biological survey; however, no burrowing owl or signs of burrowing owl were observed within the BSA. Additionally, the species is known to occur approximately 0.5 miles south of the BSA. Given the potentially suitable habitat onsite, and nearby occurrences of the species, burrowing owl has a high potential to occur.

4.3.3.2 Project Impacts to Burrowing Owl

The Project will permanently remove approximately 0.43 acres of potentially suitable burrowing owl foraging and nesting habitat. Additionally, the Project will result in approximately 1.31 acres of temporary impacts to suitable foraging habitat, which may include construction access for personnel and equipment, clearing and grubbing, as well as grading and compaction.

Although, no burrowing owl or signs of burrowing were observed during survey efforts the species has a high potential to occupy grassland habitat within the Project area prior to construction. Therefore, pre-construction burrowing owl surveys are recommended prior to the start of Project activities to avoid direct impacts to the species.

4.3.3.3 Burrowing Owl Avoidance and Minimization Efforts

Implementation of the following measure will avoid impacts to burrowing owl:

BIO-12: Prior to the start of Project-related activities the Project biologist will conduct pre-construction surveys for burrowing owl within the Project area plus a 500-foot buffer. Surveys will follow CDFW's Staff Report on Burrowing Owl Mitigation, which includes four surveys at least 3 weeks apart prior to the start of Project activities. The final survey must not be conducted within 14 days prior to the start of Project activities. If burrowing owls are identified within the survey area the Project biologist will consult with CDFW to determine appropriate no-work buffer distances, avoidance strategies and/or mitigation for impacted nest sites.

4.3.3.4 Compensatory Mitigation for Burrowing Owl

With the implementation of species-specific avoidance and minimization measure **BIO-12**, direct impacts to burrowing owls are not anticipated. Burrowing owl and Swainson's hawk

share similar foraging habitat requirements and it is anticipated that mitigation for Swainson's hawk foraging habitat, as stated in mitigation measures **BIO-11**, will mitigate for the loss of burrowing owl foraging/nesting habitat. Compensatory mitigation specific to this species is not required or proposed at this time.

4.3.3.5 Cumulative Impacts to Burrowing Owl

With implementation of species-specific avoidance and minimization measure **BIO-12**, the Project will avoid direct effects to burrowing owl. Additionally, with the inclusion of compensatory mitigation for grassland foraging habitat (**BIO-11**) the Project is not anticipated to result in a permanent loss of burrowing owl foraging/nesting habitat that would result in a cumulative impact to the local population.

4.3.4 Discussion of Emergent Wetland Nesting Songbirds

The following species, including song sparrow ("Modesto" population), tricolored blackbird, and yellow-headed blackbird are discussed together in the following section due to shared habitat requirements and avoidance and minimization measures.

Song sparrow ("Modesto" population)

The song sparrow is not a state of federally listed species but is a CDFW Species of Special Concern. The ecological requirements of the species are largely undescribed, but the species is known to have an affinity for emergent freshwater marshes dominated by tules and cattails described as being moderately dense vegetation to supply cover for nest sites, a source of standing or running water, semi-open canopies to allow light, and exposed ground or leaf litter for foraging (Grinnell and Miller 1944), (Marshall 1948). Habitat loss, fragmentation, and degradation are the primary threats to the species. Nesting season for the species usually begins in April, and most nesters in California are nonmigratory, with other migrants coming from the north (Shuford and Gardali 2008).

Tricolored blackbird

The tricolored blackbird is state listed as threatened under CESA. This species typically nests in freshwater marsh or other areas with dense, emergent vegetation such as dense cattails or tules, thickets of blackberry and willow. However, when preferred nesting is not available the species has been known to nest in grain (triticale), fiddleneck, thistles etc. (University of California Davis 2015, Meese 2008). Most tricolored blackbirds forage within 3 miles of their colony sites and require some source of water in proximity to their colony location. Preferred foraging habitats include crops such as rice, alfalfa, irrigated pastures, and ripening or cut grain fields, as well as annual grasslands, cattle feedlots, and dairies. The species may also forage in remnant native habitats, including wet and dry vernal pools and other seasonal wetlands, riparian scrub habitats, and open marsh borders (Shuford and Gardali 2008).

Yellow-headed blackbird

The yellow-headed blackbird is not a federal or state listed species but is a CDFW Species of Special Concern. Yellow-headed blackbird tend to nest and roost in dense emergent vegetation, feeding primarily on seeds and cultivated grains, while eating insects through the breeding season. Nesting occurs in dense wetlands of cattails and tules and timed to coincide with maximum emergence of aquatic insects. Breeding season typically lasts from mid-April to late July. The species occurs throughout the Central Valley during breeding season and migrates south during the winter months.

4.3.4.1 Emergent Wetland Nesting Songbird Survey Results

Song sparrow (“Modesto” population)

During the April 2018 biological survey efforts song sparrow (“Modesto” population) was identified, through call, within the BSA. The emergent wetland and seasonal wetland/annual grassland habitat within the BSA serve as suitable nesting and foraging habitat for the species. Given detection of the species during biological surveys and presence of both suitable nesting and foraging habitat, the species is expected to be present within the BSA.

Tricolored Blackbird

Tricolored blackbird was not observed during the biological surveys, but the BSA contains emergent wetland and seasonal wetland/annual grassland habitat, which provides potentially suitable nesting and foraging habitat for the species. Additionally, there are 6 presumed extant occurrences of the species within 5 miles of the BSA. Due to the presence of potentially suitable nesting and foraging habitat and local extant occurrences of the species tricolored has a moderate potential to occur within the BSA.

Yellow-headed blackbird

Yellow-headed blackbird was not observed during the biological surveys, but the BSA contains emergent wetland and seasonal wetland/annual grassland habitat, which provides potentially suitable nesting and foraging habitat for the species. There is one historic CNDDDB occurrence nearby the Sacramento River approximately 6 miles east of the BSA (1899), and several recent occurrences in the Central Valley region (iNaturalist 2024). Due to the presence of potentially suitable nesting and foraging habitat and the proximity to known extant occurrences, the species is considered to have a moderate potential to occur within the BSA.

4.3.4.2 Project Impacts to Emergent Wetland Nesting Songbirds

In order to accommodate the proposed alignment of the trail the Project is anticipated to temporarily and permanently impact potentially suitable nesting and foraging habitat for these species, including emergent wetland, seasonal wetland and annual grassland (see **Table 3** in Section 4.1). With the implementation of **BIO-13** below, as well as the use of Standard BMPs, and proposed compensatory mitigation for impacts to jurisdictional waters and annual grassland habitat, the Project will not result in direct impacts to song sparrow (“Modesto” population) or yellow-headed blackbird. Additionally, the Project will not result in take of tricolored blackbird, and consultation with CDFW under Section 2081 Incidental Take Permit is not warranted.

4.3.4.3 Emergent Wetland Nesting Songbird Avoidance and Minimization Efforts

Implementation of measure **BIO-13** would avoid impacts to song sparrow (“Modesto” population), tricolored blackbird, yellow-headed blackbird, and other nesting migratory birds that have potential to occur within the Project area.

BIO-13: If vegetation removal or ground disturbance is planned to occur during the nesting season (February 1st – August 31st), the Project biologist will conduct a pre-construction nesting bird survey within 7 days prior to vegetation removal or ground disturbance. Within 2 weeks of the nesting bird survey, all vegetation cleared by the Project biologist will be removed from the Project site.

A minimum 100-foot no-disturbance buffer will be established around any active nest of migratory birds and a minimum 300-foot no-disturbance buffer will be established around any nesting raptor species. Upon receiving notification of an active nest, the contractor will immediately stop work until the appropriate buffer is established. Work within the

buffer zone will only proceed once the Project biologists has determined that the young have fledged. A reduced buffer may be considered at the discretion of the Project biologist and wildlife agencies.

If tricolored blackbird is discovered nesting within the Project area during the pre-construction nesting bird survey, the Project biologists will notify CDFW, and no Project related activities will proceed until CDFW has issued an Incidental Take Permit for tricolored blackbird or has provided written approval to start work.

4.3.4.4 Compensatory Mitigation for Emergent Wetland Nesting Songbirds

With the implementation of site-specific compensatory measures **BIO-7** and **BIO-11** impacts to jurisdictional waters, including emergent wetland and seasonal wetland, as well as grassland habitat will be appropriately mitigated. Therefore, long-term indirect impacts to song sparrow (“Modesto” population), tricolored blackbird, and yellow-headed blackbird, through habitat loss, are not anticipated. Compensatory mitigation specific to these species is not proposed at this time.

4.3.4.5 Cumulative Impacts to Emergent Wetland Nesting Songbirds

With implementation of site-specific avoidance and minimization measures, as well as compensatory mitigation for habitats that have the potential to support special-status species, the Project will not result in cumulative impacts to song sparrow (“Modesto” population), tricolored blackbird, or yellow-headed blackbird.

4.3.5 Discussion of Northwestern Pond Turtle

The NWPT is a CDFW Species of Special Concern and is proposed to be listed under the FESA. NWPTs are native to the west coast and are found from Baja California, Mexico north through Klickitat County, Washington. The NWPT is a fully aquatic turtle, inhabiting ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. The species requires suitable basking sites such as logs, rocks and exposed banks and associated upland habitat consisting of sandy banks or grassy open fields for reproduction. The species is omnivorous, consuming aquatic wildlife and vegetation. The NWPT is known to hibernate underwater beneath a muddy bottom in colder climates and breed from March to August (Zeiner 1990). Nests are generally found on south facing slopes in flat areas with low vegetation and dry, hard soil.

4.3.5.1 Northwestern Pond Turtle Survey Results

The BSA contains suitable aquatic habitat, including seasonal wetland, seasonal wetland swale, emergent marsh, Laguna Creek and Whitehouse Creek, as well as suitable upland habitat, consisting of the channel banks and annual grassland habitat. Additionally, the species was observed during the April 24-26, 2018, biological surveys, at the confluence of Whitehouse Creek and Laguna Creek. Due to the presence of suitable habitat and the observation of the species during the jurisdictional delineation, the species is considered present within the BSA.

4.3.5.2 Project Impacts to Northwestern Pond Turtle

The Project is anticipated to permanently impact a total of approximately 0.93 acres of aquatic habitat (emergent wetland, seasonal wetland, seasonal wetland swale, and Laguna Creek) and approximately 0.43 acres of suitable upland habitat (annual grassland). Additionally, the Project is anticipated to temporarily impact a total of approximately 0.27 acres of aquatic habitat (emergent wetland, seasonal wetland, seasonal wetland swale, Laguna Creek and Whitehouse Creek), and approximately 1.31 acres of suitable upland habitat (annual grassland). Temporary

impacts within perennial creek habitat would include installation of a temporary water diversion or de-watering system, clearing/grubbing of aquatic vegetation to allow access for construction personnel and equipment. Temporary impacts within grassland and wetland habitat may include construction access for personnel and equipment, clearing and grubbing, as well as grading and compaction. However, temporarily disturbed soils within grassland and wetland habitats would be de-compacted and re-vegetated with California native seeds after completion of the Project.

Given that NWPT is proposed to be listed under the FESA, Section 7 consultation will be required with USFWS upon official listing of the species. Since the species has been observed within the BSA there is a high likelihood of encountering the species during implementation of the Project. Though no determination will be made for purposes of Section 7 consultation at this time, once officially listed under FESA, the determination for NWPT is proposed to be *May Affect, Likely to Adversely Affect*.

4.3.5.3 Northwestern Pond Turtle Avoidance and Minimization Efforts

The measures below are intended to avoid and minimize potential impacts to NWPT:

BIO-14: To avoid impacts to western pond turtles, the Project biologist will conduct a pre-construction survey of the Laguna Creek, Whitehouse Creek, and adjacent banks and wetlands, and upland habitats within the Project area. Surveys will be conducted no more than 24 hours prior to onset of construction. In addition, the Project biologists will monitor initial in-water work and de-watering activities, including clearing/grubbing of aquatic vegetation.

If a turtle is located within the construction area, the Project biologist will temporarily halt work in the vicinity of the discovery and capture the turtle(s) and relocate the species to appropriate aquatic habitat a safe distance from the construction site. The relocation site must be within the same water body found at the Project site (Laguna Creek or Whitehouse Creek).

BIO-15: If water pumps are used to dewater the Project area, pump intakes will be screened and equipped with an energy dissipater to protect aquatic species. Intake pumps will include a mesh screen with openings that do not exceed 3.96 millimeters (5/32 inches) measured diagonally.

BIO-16: Prior to ground disturbing activities or in-water work, animal exclusion fencing will be installed on the edge of the Project boundary within natural habitat communities. The fencing will consist of silt fencing, or a similar material such that turtles, snakes, or other wildlife cannot get through or become entangled in it and will be buried a minimum of 6 inches below ground and will extend 12-18 inches above the ground. At any access opening in the fence, the fence will be installed to turn 180 degrees away from the access point for a length of approximately 10 feet and at a minimum width of one foot from the original fence. The on-site personnel, provided the environmental awareness training by the Project biologist, will inspect the exclusion fencing daily to ensure the fence is kept in good working order. The fence will be maintained and repaired as necessary throughout construction.

BIO-17: No plastic or synthetic monofilament netting shall be used as erosion control or other BMP measures within the project area. All material will be comprised of natural fibers.

- BIO-18:** To prevent the inadvertent entrapment of NWPT, all excavated, steep-walled holes or trenches more than 3 inches wide and 1 foot deep will be inspected for NWPT then covered at the close of each working day by plywood or similar materials. If it is not feasible to cover an excavation, one or more escape ramps constructed of earthen fill or wood \geq 6 inches wide shall be installed. Before such holes or trenches are filled, they must be thoroughly inspected by the biologist for trapped NWPT. If at any time a trapped NWPT is detected, the biologist or monitor will relocate the NWPT to nearby suitable habitat well outside the work area.
- BIO-19:** Any heavy equipment to be operated in or near water or suitable upland habitat will use non-toxic (e.g., vegetable oil-based) hydraulic fluids only. A spill management plan will be developed to ensure that all equipment will be free of oil and fuel leaks. Equipment refueling and maintenance will only occur at staging areas to avoid fuel, hydraulic fluids, and lubricants from entering the waterway or suitable upland habitat. Further, absorptive pads or impermeable pans should be placed under the vehicles to contain spills and leaks.
- BIO-20:** The NWPT may overwinter in aquatic or muddy substrates or on land as far as 1640 feet from aquatic habitat. NWPT that overwinter in upland habitat can begin movements as early as 25 August (peaking between September and October) through 30 November. NWPT will begin moving back to aquatic habitat between 1 February and 1 May. Monitoring of ground-disturbing activities in suitable upland habitat, within 1640 feet from presumed occupied aquatic habitat, shall occur from 25 August to 1 December and from 31 January to 1 May. If an overwintering NWPT is excavated and unharmed, construction activities will cease within 50 feet of the turtle until the biologist or monitor can relocate the NWPT to a location specified in the relocation plan. If a NWPT is excavated and injured, the biologist will take the NWPT to a Service-approved rehabilitation center. If it is killed, the NWPT will be taken to a designated repository. If the biologist or monitor exercises this authority, the Service will be notified within 48 hours.

4.3.5.4 Compensatory Mitigation for Northwestern Pond Turtle

With the implementation of site-specific avoidance and minimization measure **BIO-14** through **BIO-20**, direct impacts to NWPTs will be minimized. Given the current pending listing status of the species under FESA, species-specific compensatory mitigation is not proposed at this time.

4.3.5.5 Cumulative Impacts to Northwestern Pond Turtle

With the implementation of site-specific avoidance and minimization measures, potential Project impacts to NWPT will be minimized. Furthermore, although some margins of Laguna Creek and Whitehouse Creek will be permanently impacted, the Project will not result in long-term effects to these aquatic resources in such a way that would make it inhabitable to NWPT. Compensatory mitigation for impacts to aquatic resources will occur in accordance with measure **BIO-7**. Therefore, no cumulative impacts to suitable NWPT habitat or the local NWPT population are anticipated.

4.3.6 Discussion of Giant Garter Snake

GGS is a state and federally listed species. GGS is one of the largest garter snakes and is endemic to the wetlands within the Sacramento and San Joaquin valleys. GGS inhabits marshes, sloughs, ponds, small lakes, low gradient streams, and other waterways and agricultural wetlands, such as irrigation and drainage canals and rice fields, and the adjacent uplands (USFWS 2017). GGS feed on small aquatic animals such as fish, tadpoles, and frogs. Essential habitat components for GGS consist of: wetlands with adequate water during the snake's active season (early-spring through mid- fall) to provide food and cover; emergent herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat during the active season; upland habitat with grassy banks and openings in waterside vegetation for basking; and higher elevation uplands for escape cover (vegetation, burrows) and underground refugia (crevices and small mammal burrows) (Hansen 1980). The GGS breeding season extends through March and April, and females give birth to live young from late July through early September. At birth, young disperse into dense cover and typically double in size by one year of age, while sexual maturity average three years in males and five years for females. According to studies of marked snakes in the Natomas Basin, snakes moved about 0.25-0.5 miles per day (Hansen and Brode 1993). GGS typically inhabit small mammal burrows for winter dormancy, escape and cover, and also as refuge from extreme heat during their active period. Burrows are typically close to wetland or water sources; however, GGS have been documented using burrows as far as 820 feet from the edge of marsh habitat (Wylie et al. 1997).

4.3.6.1 Giant Garter Snake Survey Results

The BSA contains permanent aquatic habitat, herbaceous wetland vegetation and grassland habitat which may be potentially suitable for the species. On March 6, 2020, herpetologist Eric Hansen performed a GGS habitat assessment within the Project area (**Appendix H. GGS Habitat Assessment**). The assessment concluded that habitat surrounding Laguna Creek is deemed suitable for supporting a permanent population of GGS; habitat around Whitehouse Creek is marginally suitable at best.

The BSA is also located within a portion of a designated giant garter snake conservation area identified under the 1996 Biological Opinion issued by the USFWS for the Lower Laguna Flood Control Project (Service File 1-1-96-F-51). This area is currently covered by a Deed Restriction and occurs in a portion of the BSA west of W Stockton Boulevard (Figure 4).

There are 13 historic documented CNDBB occurrences of the species within 10 miles of the BSA, however, the three occurrences closest to the BSA have been extirpated. The nearest presumed extant occurrence of the species is located approximately 3.5 miles southeast of the BSA on the east side of Waterman Road (2002). The Project vicinity has undergone major commercial and residential development over the past 20 years, which has degraded and fragmented remaining habitat that could support GGS. Given that the BSA is surrounded by urban development and bordered by SR 99 it is unlikely that GGS would be encountered within the Project area. However, due to the presence of potentially suitable habitat, the species has a low potential to occur.

4.3.6.2 Project Impacts to Giant Garter Snake

The Project will result in temporary and permanent impacts to potentially suitable GGS habitat (**Table 4**). Temporary impacts to GGS habitat include disturbance of approximately 1.31 acres of upland habitat, and 0.27 acres of aquatic habitat. Temporary impacts will include but are not limited to, clearing and grubbing, equipment access, grading, compaction, de-watering, temporary water diversion and staging. However, temporarily disturbed soils within grassland

and wetland habitats would be de-compacted and re-vegetated with California native seeds after completion of the Project (**BIO-8**).

Permanent impacts to potentially suitable GGS habitat include a loss of approximately, 0.43 acres of upland habitat, and a total of approximately 0.93 acres of aquatic habitat. Permanent impacts will occur due to the placement of fill required to construct the new trail and associated overcrossing. Consultation with USFWS for the species under Section 7 will be required. Though GGS is unlikely to be present, given the habitat is suitable for supporting a permanent population of GGS and permanent impacts totaling to 1.36 acres would occur, the Project is *Not Likely to Adversely Affect* GGS. With incorporation of avoidance and minimization measures, the Project is not anticipated to have take of GGS under CESA, and therefore consultation with CDFW under Section 2081 is not warranted.

Table 4. Project Impacts to GGS Habitat

GGS Habitat	Temporary Impacts (acres)	Permanent Impacts (acres)
Upland Habitat (annual grassland)	1.31	0.43
Aquatic Habitat (Laguna Creek, Whitehouse Creek, emergent wetland, seasonal wetland, seasonal wetland swale)	0.27	0.93
Total (acres)	1.58	1.36

4.3.6.3 Giant Garter Snake Avoidance and Minimization Efforts

The Project will result in temporary and permanent impacts to potentially suitable GGS aquatic and upland habitat. With implementation of **BIO-1**, **BIO-2**, **BIO-15** through **BIO-20**, and the below measures, impacts to GGS and GGS habitat will be avoided and minimized.

BIO-21: Ground disturbing activities within suitable GGS habitat (includes all aquatic habitat and upland habitat within 200 ft of aquatic habitat) will be conducted between May 1st and October 1st. This is the active period for giant garter snakes and the risk of direct mortality is lessened because snakes are expected to actively react and avoid danger. Ground disturbing activities may occur outside of this period if written approval is received by the U.S. Fish and Wildlife Service Sacramento Office prior to starting any work.

BIO-22: A USFWS and CDFW approved biologist will conduct a clearance survey for giant garter snake within 24-hours prior to commencing any Project related activity within 200 feet GGS aquatic habitat. A clearance survey will be repeated if a lapse in construction activity of two weeks or greater has occurred. If individuals of the species are discovered during construction, work will stop in the area of discovery and coordination with the appropriate resource agencies will occur. The USFWS and Project biological monitor

will be immediately notified if a snake is found during construction activities. The snake will be monitored by the biological monitor and allowed to leave the area on its own. Project activities will not be reinitiated until documentation for compliance with FESA and CESA is obtained.

BIO-23: On site monitoring during all ground disturbance activities of the project will be conducted using a USFWS and CDFW approved biologist.

BIO-24: Any dewatered habitat shall remain dry for at least 15 consecutive days after April 15 and prior to excavating or filling of the dewatered habitat.



4.3.6.4 Compensatory Mitigation for Giant Garter Snake

Compensatory mitigation for impacts to potentially suitable GGS habitat may be required and will be finalized during Section 7 consultation with USFWS.


4.3.6.5 Cumulative Impacts to Giant Garter Snake

With the implementation of species-specific avoidance and minimization measures and incorporation of any USFWS required compensatory mitigation, the Project is not anticipated to contribute to regional-scale cumulative impacts to GGS and associated habitat. Overall, there is a low likelihood for GGS to occur onsite, but the species cannot be entirely ruled out, and therefore informal Section 7 consultation will be required with USFWS. All measures that result from Section 7 consultation will be incorporated into the Project.

The Project would create a temporal and permanent loss to potentially suitable GGS upland and aquatic habitat. However, the Project would not result in fragmentation of the remaining potentially suitable GGS upland or aquatic habitat onsite and would not alter the surrounding habitat in such a way that would create uninhabitable conditions post-construction.

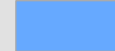
 Biological Study Area (35.87 acres)  Exclusion Fencing


Upland Habitat

 Annual grassland (10.17 acres)

Aquatic Habitat


 Emergent Wetland (2.36 acres)

 Perennial Creek (5.78 acres)

 Seasonal Wetland (0.05 acre)


 Seasonal Wetland Swale (0.14 acres)


Temporary GGS Habitat Impacts

 Aquatic (0.27 acres)

 Upland (1.31 acres)

Permanent GGS Habitat Impacts

 Aquatic (0.88 acres)

 Upland (0.43 acres)

Laguna Creek Bypass Channel

V:\3040 Laguna Creek Trail Crossing\Biology\F5_GGS Impacts.mxd

Source: ESRI Maps Online; Dokken Engineering 8/9/2024; Created By: kjacobson



1 inch = 150 feet



FIGURE 6
GGG Habitat Impacts

CML-5479(072)

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

Chapter 5. Conclusions and Regulatory Determinations

5.1 Federal Endangered Species Act Consultation Summary

Based on an analysis of species occurrences and habitat requirements, effect determinations were made for each federally listed, candidate or proposed species as shown in **Table 5** below. A total of 18 federally listed species were returned via database searches and two of these species have potential to occur or are presumed present within the Project area. Informal Section 7 will be initiated with USFWS for GGS. Upon official listing of NWPT under FESA, formal Section 7 consultation will be required with USFWS.

Table 5. Federally Listed Species Determinations

Species Name	Federal Status	Potential	Determination
California tiger salamander – central California DPS (<i>Ambystoma californiense</i> pop. 1)	Threatened	Absent	No Effect
Chinook salmon - Central Valley spring-run ESU (<i>Oncorhynchus tshawytscha</i> pop. 11)	Threatened	Absent	No Effect
Chinook salmon – Sacramento River winter-run ESU (<i>Oncorhynchus tshawytscha</i> pop. 7)	Endangered	Absent	No Effect
Delta smelt (<i>Hypomesus tanspacificus</i>)	Threatened	Absent	No Effect
Giant garter snake (<i>Thamnophis gigas</i>)	Threatened	Moderate Potential	May affect, not likely to adversely effect
Green sturgeon – southern DPS (<i>Acipenser medirostris</i> pop. 1)	Threatened	Absent	No Effect
Least Bell's vireo (<i>Vireo bellii pusillus</i>)	Endangered	Absent	No Effect
Longfin smelt (<i>Spirinchus thaleichthys</i>)	Candidate Endangered	Absent	No Effect
Monarch butterfly (<i>Danaus plexippus</i>)	Candidate Endangered	Absent	No Effect
Sacramento Orcutt grass (<i>Orcuttia viscida</i>)	Endangered	Absent	No Effect
Slender Orcutt grass (<i>Orcuttia tenuis</i>)	Threatened	Absent	No Effect
Steelhead – Central Valley DPS (<i>Oncorhynchus mykiss irideus</i> pop. 11)	Threatened	Absent	No Effect
Valley elderberry longhorn beetle (<i>Desmocerus californicus dimorphus</i>)	Threatened	Absent	No Effect
Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	Threatened	Absent	No Effect

Vernal pool tadpole shrimp (<i>Lepidurus packardii</i>)	Endangered	Absent	No Effect
Northwestern pond turtle (<i>Actinemys marmorata</i>)	Proposed Threatened	Present	No determination
Western Spadefoot (<i>Spea hammondii</i>)	Proposed Threatened	Absent	No Effect
Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>)	Threatened	Absent	No Effect

5.2 Essential Fish Habitat Consultation Summary

No essential fish habitat is present within the Project limits. No essential fish habitat consultation is required.

5.3 California Endangered Species Act Consultation Summary

Three state listed species were determined to have the potential to occur within the Project area: Swainson’s hawk, GGS, and tricolored blackbird. With the inclusion of avoidance and minimization measures, no direct impacts to GGS, Swainson’s hawk, or tricolored blackbird are anticipated.

Swainson’s Hawk

Swainson’s hawk was observed soaring over the BSA during one of the April 2018 biological surveys. However, the Project area lacks suitable nesting habitat, and no nesting trees with Swainson’s hawk will be removed. Considering no Swainson’s hawk nesting trees will be removed, and with the implementation of Project minimization and avoidance measures and proposed compensatory mitigation for Swainson’s hawk foraging habitat, the Project will not result in take of Swainson’s hawk. With the avoidance of take, consultation with CDFW under Section 2081 Incidental Take Permit is not warranted for the Project.

Tricolored blackbird

The Project area contains potentially suitable nesting habitat for tricolored blackbird. However, the species was not observed during biological survey efforts spanning multiple years. With the implementation of Project avoidance and minimization measures (pre-construction nesting bird surveys), and compensatory mitigation for impacts to aquatic habitats, take of tricolored blackbird is not anticipated. If tricolored blackbird is discovered nesting within the Project area during pre-construction nesting bird surveys consultation with CDFW under CESA will be required, in accordance with measure **BIO-13**. However, consultation with CDFW under Section 2081 for tricolored blackbird is not warranted at this time.

Giant Garter Snake

The Project area contains potentially suitable upland and aquatic habitat for GGS. However, there is an extremely low likelihood of encountering the species onsite due to major regional developments of suitable GGS habitat that have occurred over the past 20 years. Therefore, consultation with CDFW under Section 2081 regarding GGS is not warranted as take is not expected.

5.4 Wetlands and Other Waters Coordination Summary

The Project will permanently affect a total of approximately 0.93 acres of waters of the United States, state and CDFW jurisdiction. In addition, the Project will have temporary effects to 0.27 acres of waters of the U.S., state and CDFW waters.

Prior to work within these areas, the City will obtain a CWA Section 404 Individual Permit from USACE, Section 401 Water Quality Certification from the RWQCB for discharge into state waters, and Section 1600 Streambed Alteration Agreement from CDFW for impacts to waters and wildlife habitat. Because ground disturbance associated with the Project will exceed one acre in size, the Project will be required to obtain a Section 402 Notice of Intent under the National Pollutant Discharge Elimination System from the RWQCB.

5.5 Invasive Species

In February 1999, EO 13112 was signed, requiring Federal agencies to work on preventing and controlling the introduction and spread of invasive species. Measure **BIO-25** will be incorporated into the Project to ensure that invasive species are not introduced or spread.

BIO-25: Prior to arrival at the Project site and prior to leaving the Project site, construction equipment that may contain invasive plants and/or seeds will be cleaned to reduce the spreading of noxious weeds.

5.6 Other

5.6.1 General Wildlife

To minimize and avoid potential effects to local wildlife, the following measures **BIO-26** through **BIO-29** will be implemented.

BIO-26: All food-related trash must be disposed into closed containers and must be removed from the Project area daily. Construction personnel must not feed or otherwise attract wildlife to the Project area.

BIO-27: The contractor must not apply rodenticide or herbicide within the Project area.

BIO-28: If any wildlife is encountered during the course of construction, said wildlife will be allowed to leave the construction area unharmed.

BIO-29: The Project area contains narrowleaf milkweed, which may provide suitable habitat for native insects (e.g., Monarch butterfly [*Danaus plexippus*]). Prior to construction the Project biologist will inspect milkweed plants for signs of any life stage of Monarch butterfly. If eggs/larvae of Monarch butterfly are discovered on any plants within the Project area they will be flagged and protected in place until fully hatched/emerged. The appropriate no disturbance buffers will be determined by the Project biologist.

5.6.2 Migratory Birds

Native birds, protected under the MBTA and similar provisions under CFG Code, currently nest or have the potential to nest within the Project impact area. Avoidance and minimization measure **BIO-13** stated in Section 4.3.4.3 will ensure potential impacts to migratory birds nesting birds are avoided.

Chapter 6. References

- American Ornithologists Union 1983 American Ornithologists' Union. 1983. Checklist of North American Birds. 6th ed. Lawrence, KS: Allen Press
- CalFish 2023 CalFish. 2023. California Fish Passage Assessment Database. Available at: <<https://www.calfish.org/ProgramsData/HabitatandBarriers/CaliforniaFishPassageAssessmentDatabase.aspx>> (accessed 10/14/2024).
- CDFW 2012 California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. State of California Natural Resources Agency. Available at: <<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=838843>> (accessed 12/18/2023).
- CDFW 2018 California Department of Fish and Wildlife. 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. Available at: <<https://wildlife.ca.gov/Conservation/Survey-Protocols#377281280-plants>> (accessed 12/18/2023).
- CDFW 2023a California Department of Fish and Wildlife. 2021. Biogeographic Information and Observation System Habitat Connectivity Viewer. Available at: <<https://wildlife.ca.gov/Data/BIOS>> (accessed 12/15//2023).
- CDFW 2023b California Department of Fish and Wildlife. 2023. California Natural Diversity Database. Available at: <<http://www.dfg.ca.gov/biogeodata/cnddb/>> (accessed: 11/17/2023).
- CDFW 1994 CDFW. 1994. Staff Report regarding Mitigation for Impacts to Swainson's Hawks (*Buteo swainsoni*) in the Central Valley of California. Available at: <https://www.dfg.ca.gov/wildlife/nongame/survey_monitor.html>
- City of Elk Grove 2002 City of Elk Grove. nd. Elk Grove General Plan Background Report – Biological Resources. Available at: <https://www.elkgrovecity.org/sites/default/files/city-files/Departments/Planning/Reports/Background%20Report/chapter_5_bio_resources.pdf> (accessed 10/14/2024).
- City of Elk Grove 2019 City of Elk Grove. 2019. City of Elk Grove General Plan. Available at: <http://www.elkgrovecity.org/city_hall/departments_divisions/planning/land_use_regulations/general_plan_and_community_plans>(accessed 12/18/2023).
- City of Elk Grove 2020 City of Elk Grove. 2020. Swainson's Hawk Program. Available at: <<https://www.elkgrovecity.org/resources-and-policies/swainsons-hawk-program#:~:text=The%20City%20of%20Elk%20Grove,in%20and%20around%20Elk%20Grove.>> (accessed 12/18/2023)

- CNPS 2023 California Native Plant Society. 2023. Inventory of Rare and Endangered Plants of California. Available at: <<http://www.rareplants.cnps.org/>> (accessed 11/17/2023).
- FESA 1973 Federal Endangered Species Act. 1973. U.S. Fish and Wildlife. Available at: <<https://www.fws.gov/endangered/laws-policies/>>
- Grinnel and Miller 1944 Grinnell, J., and Miller, A.H. 1944. The distribution of the birds of California. *Pac. Coast Avifauna* 27.
- Hansen 1980 Hansen, C.E. 1980. Western aquatic garter snakes in central California: an ecological and evolutionary perspective. Master of Arts thesis, California State University, Fresno, California.
- Hansen and Brode 1993 Hansen, C.E. and J.M. Brode. 1993. Results of relocating canal habitat of the giant garter snake (*Thamnophis gigas*) during widening of State Route 99/70 in Sacramento and Sutter counties, California. Final report for Caltrans Interagency Agreement 03E325 (FG7550) (FY87/88-91-92). Unpublished. 36 pp.
- HELIX Environmental Planning 2023 HELIX Environmental Planning Inc. 2023. Laguna Creek Trail and Bruceville Road Sidewalk Improvements Project Natural Environmental Study.
- iNaturalist 2024 iNaturalist.2024. Available at: <<https://www.inaturalist.org/>> (accessed 5/10/2024).
- Jepson 2023 Jepson eFlora. 2023. Geographic subdivisions. Available at: <<https://ucjeps.berkeley.edu/eflora/geography.html>> (accessed 12/8/2023).
- Lichvar 2008 Lichvar, R.W. & McColley, S.M. 2008. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. United States Army Engineer Research and Development Center, Hanover, New Hampshire.
- Marshall 1948 J.T., Jr. 1948. Ecologic races of Song Sparrows in the San Francisco Bay Region. Part I. Habitat and abundance. *Condor* 50:193-215.
- Meese 2008 Meese, Robert J, Ph.D. 2008. Detection, Monitoring, and Fates of Tricolored Blackbird Colonies in 2008 in the Central Valley of California. Available at: <<http://tricolor.ice.ucdavis.edu/node/4602>>
- NMFS 2023 National Marine Fisheries Science. 2023. NMFS Species List for Laguna Creek Trail Crossing Project (requested: 11/17/2023).
- NRCS 2023 Natural Resource Conservation Service. 2023. Custom Soil Resources Report for Sacramento County, California. Available at: <<https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>> (accessed 12/8/2023).

- RWQCB 2018 RWQCB. 2018. Storm Water Program – MS4 Municipal Permits. Available at: <https://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/>
- Shuford and Gardali 2008 Shuford, W. D., and Gardali, T., editors. 2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Studies of Western Birds 1. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game, Sacramento. Available at: <<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentVersionID=19850>>
- University of Davis 2016 University of California, Davis. 2016. Tricolored Blackbird Portal. Information Center for the Environment, University of California, Davis. Available at: <<http://tricolor.ice.ucdavis.edu/>>
- U.S. Climate Data 2023 United States Climate Data. 2023. Sacramento Weather Averages. Available at: <<https://www.usclimatedata.com>> (accessed 12/8/2023).
- U.S. EPA 2024 United States Environmental Protection Agency. 2024. Report on the Environment – Wetlands. Available at: <<https://www.epa.gov/report-environment/wetlands>> (accessed 3/21/2024).
- USACE 1987 United States Army Corps of Engineers. 1987. Corps of Engineers Wetlands Delineation Manual. Environmental Laboratory, Vicksburg, Mississippi.
- USACE 2008 United States Army Corps of Engineers. 2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). United States Army Engineer Research and Development Center, Vicksburg, Mississippi.
- USFWS 2017 United States Fish and Wildlife. 2017. Recovery Plan for the Giant Garter Snake (*Thamnophis gigas*). Pacific Southwest Region, Sacramento, California. Vii + 71 pp.
- USFWS 2024 United States Fish and Wildlife Service. 2024. Official Species List: U.S. Department of the Interior – Fish and Wildlife Service: Sacramento Fish and Wildlife Office. (requested: 5/9/2024).
- Wylie et al. 1997 Wylie, G. D, M.L. Cassaza, and J.K. Daugherty. 1997. 1996 Progress Report for the Giant garter Snake Study. Unpublished Report, USGS, Biological Resources Division, Dixon Research Station, Dixon, California.
- Zeiner 1990 Zeiner, D.C., W.F. Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. California's Wildlife. Vol. I-III. CDFW, Sacramento California

Appendix A. USFWS Species List



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

05/09/2024 17:47:29 UTC

Project Code: 2024-0088218

Project Name: Laguna Overcrossing Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2))

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

PROJECT SUMMARY

Project Code: 2024-0088218
Project Name: Laguna Overcrossing Project
Project Type: Road/Hwy - New Construction
Project Description: Pedestrian overcrossing over SR-99
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.431441199999995,-121.39459326549505,14z>



Counties: Sacramento County, California

ENDANGERED SPECIES ACT SPECIES

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

REPTILES

NAME	STATUS
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened
Northwestern Pond Turtle <i>Actinemys marmorata</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

AMPHIBIANS

NAME	STATUS
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened
Western Spadefoot <i>Spea hammondi</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5425	Proposed Threatened

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

CRUSTACEANS

NAME	STATUS
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

FLOWERING PLANTS

NAME	STATUS
Lassics Lupine <i>Lupinus constancei</i>	Endangered

NAME

STATUS

Population:

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: <https://ecos.fws.gov/ecp/species/7976>

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: Dokken Engineering

Name: Katie Jacobson

Address: 110 Blue Ravine Rd #200

City: Folsom

State: CA

Zip: 95630

Email: kjacobson@dokkenengineering.com

Phone: 9168449581

Appendix B. CNDDDB Species List



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Quad (Courtland (3812135) OR Bruceville (3812134) OR Galt (3812133) OR Clarksburg (3812145) OR Florin (3812144) OR Elk Grove (3812143) OR Sacramento East (3812154) OR Sacramento West (3812155) OR Carmichael (3812153))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Ahart's dwarf rush <i>Juncus leiospermus</i> var. <i>ahartii</i>	PMJUN011L1	None	None	G2T1	S1	1B.2
alkali-sink goldfields <i>Lasthenia chrysantha</i>	PDAST5L030	None	None	G2	S2	1B.1
American badger <i>Taxidea taxus</i>	AMAJF04010	None	None	G5	S3	SSC
American bumble bee <i>Bombus pensylvanicus</i>	IIHYM24260	None	None	G3G4	S2	
bank swallow <i>Riparia riparia</i>	ABPAU08010	None	Threatened	G5	S3	
black-crowned night heron <i>Nycticorax nycticorax</i>	ABNGA11010	None	None	G5	S4	
Boggs Lake hedge-hyssop <i>Gratiola heterosepala</i>	PDSCR0R060	None	Endangered	G2	S2	1B.2
Bolander's water-hemlock <i>Cicuta maculata</i> var. <i>bolanderi</i>	PDAP10M051	None	None	G5T4T5	S2?	2B.1
bristly sedge <i>Carex comosa</i>	PMCYP032Y0	None	None	G5	S2	2B.1
burrowing owl <i>Athene cunicularia</i>	ABNSB10010	None	None	G4	S2	SSC
California black rail <i>Laterallus jamaicensis coturniculus</i>	ABNME03041	None	Threatened	G3T1	S2	FP
California linderiella <i>Linderiella occidentalis</i>	ICBRA06010	None	None	G2G3	S2S3	
California tiger salamander - central California DPS <i>Ambystoma californiense</i> pop. 1	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
chinook salmon - Central Valley spring-run ESU <i>Oncorhynchus tshawytscha</i> pop. 11	AFCHA0205L	Threatened	Threatened	G5T2Q	S2	
chinook salmon - Sacramento River winter-run ESU <i>Oncorhynchus tshawytscha</i> pop. 7	AFCHA0205B	Endangered	Endangered	G5T1Q	S2	
Coastal and Valley Freshwater Marsh <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA	None	None	G3	S2.1	
Cooper's hawk <i>Accipiter cooperii</i>	ABNKC12040	None	None	G5	S4	WL
Crotch bumble bee <i>Bombus crotchii</i>	IIHYM24480	None	Candidate Endangered	G2	S2	
Delta mudwort <i>Limosella australis</i>	PDSCR10030	None	None	G4G5	S2	2B.1



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Delta smelt <i>Hypomesus transpacificus</i>	AFCHB01040	Threatened	Endangered	G1	S1	
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	PDFAB250D2	None	None	G5T2	S2	1B.2
double-crested cormorant <i>Nannopterum auritum</i>	ABNFD01020	None	None	G5	S4	WL
dwarf downingia <i>Downingia pusilla</i>	PDCAM060C0	None	None	GU	S2	2B.2
Elderberry Savanna <i>Elderberry Savanna</i>	CTT63440CA	None	None	G2	S2.1	
Ferris' milk-vetch <i>Astragalus tener</i> var. <i>ferrisiae</i>	PDFAB0F8R3	None	None	G2T1	S1	1B.1
ferruginous hawk <i>Buteo regalis</i>	ABNKC19120	None	None	G4	S3S4	WL
giant gartersnake <i>Thamnophis gigas</i>	ARADB36150	Threatened	Threatened	G2	S2	
golden eagle <i>Aquila chrysaetos</i>	ABNKC22010	None	None	G5	S3	FP
great blue heron <i>Ardea herodias</i>	ABNGA04010	None	None	G5	S4	
great egret <i>Ardea alba</i>	ABNGA04040	None	None	G5	S4	
Great Valley Cottonwood Riparian Forest <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA	None	None	G2	S2.1	
Great Valley Mixed Riparian Forest <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA	None	None	G2	S2.2	
Great Valley Valley Oak Riparian Forest <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA	None	None	G1	S1.1	
green sturgeon - southern DPS <i>Acipenser medirostris</i> pop. 1	AFCAA01031	Threatened	None	G2T1	S1	
hairy water flea <i>Dumontia oregonensis</i>	ICBRA23010	None	None	G1G3	S1	
Heckard's pepper-grass <i>Lepidium latipes</i> var. <i>heckardii</i>	PDBRA1M0K1	None	None	G4T1	S1	1B.2
hoary bat <i>Lasiurus cinereus</i>	AMACC05032	None	None	G3G4	S4	
least Bell's vireo <i>Vireo bellii</i> <i>pusillus</i>	ABPBW01114	Endangered	Endangered	G5T2	S3	
legenere <i>Legenere limosa</i>	PDCAM0C010	None	None	G2	S2	1B.1
longfin smelt <i>Spirinchus thaleichthys</i>	AFCHB03010	Candidate	Threatened	G5	S1	



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
marsh skullcap <i>Scutellaria galericulata</i>	PDLAM1U0J0	None	None	G5	S2	2B.2
Mason's lilaepsis <i>Lilaeopsis masonii</i>	PDAP119030	None	Rare	G2	S2	1B.1
merlin <i>Falco columbarius</i>	ABNKD06030	None	None	G5	S3S4	WL
midvalley fairy shrimp <i>Branchinecta mesovallensis</i>	ICBRA03150	None	None	G2	S2S3	
Northern Hardpan Vernal Pool <i>Northern Hardpan Vernal Pool</i>	CTT44110CA	None	None	G3	S3.1	
pappose tarplant <i>Centromadia parryi ssp. parryi</i>	PDAST4R0P2	None	None	G3T2	S2	1B.2
Peruvian dodder <i>Cuscuta obtusiflora var. glandulosa</i>	PDCUS01111	None	None	G5T4?	SH	2B.2
purple martin <i>Progne subis</i>	ABPAU01010	None	None	G5	S3	SSC
Ricksecker's water scavenger beetle <i>Hydrochara rickseckeri</i>	IICOL5V010	None	None	G2?	S2?	
Sacramento Orcutt grass <i>Orcuttia viscida</i>	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
Sacramento perch <i>Archoplites interruptus</i>	AFCQB07010	None	None	G1	S1	SSC
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	AFCJB34020	None	None	G3	S3	SSC
Sacramento Valley tiger beetle <i>Cicindela hirticollis abrupta</i>	IICOL02106	None	None	G5TH	SH	
saline clover <i>Trifolium hydrophilum</i>	PDFAB400R5	None	None	G2	S2	1B.2
Sanford's arrowhead <i>Sagittaria sanfordii</i>	PMALI040Q0	None	None	G3	S3	1B.2
side-flowering skullcap <i>Scutellaria lateriflora</i>	PDLAM1U0Q0	None	None	G5	S2	2B.2
slender Orcutt grass <i>Orcuttia tenuis</i>	PMPOA4G050	Threatened	Endangered	G2	S2	1B.1
song sparrow ("Modesto" population) <i>Melospiza melodia pop. 1</i>	ABPBXA3013	None	None	G5T3?Q	S3?	SSC
steelhead - Central Valley DPS <i>Oncorhynchus mykiss irideus pop. 11</i>	AFCHA0209K	Threatened	None	G5T2Q	S2	
Suisun Marsh aster <i>Symphotrichum lentum</i>	PDASTE8470	None	None	G2	S2	1B.2
Swainson's hawk <i>Buteo swainsoni</i>	ABNKC19070	None	Threatened	G5	S4	



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
tricolored blackbird <i>Agelaius tricolor</i>	ABPBXB0020	None	Threatened	G1G2	S2	SSC
valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	IICOL48011	Threatened	None	G3T3	S3	
Valley Oak Woodland <i>Valley Oak Woodland</i>	CTT71130CA	None	None	G3	S2.1	
vernal pool fairy shrimp <i>Branchinecta lynchi</i>	ICBRA03030	Threatened	None	G3	S3	
vernal pool tadpole shrimp <i>Lepidurus packardii</i>	ICBRA10010	Endangered	None	G3	S3	
watershield <i>Brasenia schreberi</i>	PDCAB01010	None	None	G5	S3	2B.3
western pond turtle <i>Emys marmorata</i>	ARAAD02030	Proposed Threatened	None	G3G4	S3	SSC
western ridged mussel <i>Gonidea angulata</i>	IMBIV19010	None	None	G3	S2	
western spadefoot <i>Spea hammondi</i>	AAABF02020	None	None	G2G3	S3S4	SSC
western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
white-tailed kite <i>Elanus leucurus</i>	ABNKC06010	None	None	G5	S3S4	FP
woolly rose-mallow <i>Hibiscus lasiocarpus var. occidentalis</i>	PDMAL0HOR3	None	None	G5T3	S3	1B.2
yellow-headed blackbird <i>Xanthocephalus xanthocephalus</i>	ABPBXB3010	None	None	G5	S3	SSC

Record Count: 74

Appendix C. CNPS Species List

















CNPS Rare Plant Inventory



Search Results




29 matches found. Click on scientific name for details

Search Criteria: 9-Quad include [3812135:3812134:3812133:3812145:3812144:3812143:3812154:3812155:3812153]

▲ COMMON NAME	SCIENTIFIC NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED	PHOTO
Ahart's dwarf rush	<u>Juncus leiospermus var. ahartii</u>	Juncaceae	annual herb	Mar-May	None	None	G2T1	S1	1B.2	Yes	1984-01-01	 © 2004 Carol W. Witham
alkali-sink goldfields	<u>Lasthenia chrysantha</u>	Asteraceae	annual herb	Feb-Apr	None	None	G2	S2	1B.1	Yes	2019-09-30	 © 2009 California State University, Stanislaus
Boggs Lake hedge-hyssop	<u>Gratiola heterosepala</u>	Plantaginaceae	annual herb	Apr-Aug	None	CE	G2	S2	1B.2		1974-01-01	 ©2004 Carol W. Witham
Bolander's water-hemlock	<u>Cicuta maculata var. bolanderi</u>	Apiaceae	perennial herb	Jul-Sep	None	None	G5T4T5	S2?	2B.1		1974-01-01	 © 2007 Doreen L. Smith
bristly sedge	<u>Carex comosa</u>	Cyperaceae	perennial rhizomatous herb	May-Sep	None	None	G5	S2	2B.1		1994-01-01	 Dean Wm. Taylor 1997
Delta mudwort	<u>Limosella australis</u>	Scrophulariaceae	perennial stoloniferous herb	May-Aug	None	None	G4G5	S2	2B.1		1994-01-01	 © 2020 Richard Sage

Delta tulle pea	<u><i>Lathyrus jepsonii</i></u> <u>var. <i>jepsonii</i></u>	Fabaceae	perennial herb	May-Jul(Aug-Sep)	None	None	G5T2	S2	1B.2	Yes	1974-01-01	 © 2003 Mark Fogiel
dwarf downingia	<u><i>Downingia pusilla</i></u>	Campanulaceae	annual herb	Mar-May	None	None	GU	S2	2B.2		1980-01-01	 © 2013 Aaron Arthur
Ferris' goldfields	<u><i>Lasthenia ferrisiae</i></u>	Asteraceae	annual herb	Feb-May	None	None	G3	S3	4.2	Yes	2001-01-01	 © 2009 Zoya Akulova
Ferris' milk-vetch	<u><i>Astragalus tener</i></u> <u>var. <i>ferrisiae</i></u>	Fabaceae	annual herb	Apr-May	None	None	G2T1	S1	1B.1	Yes	1994-01-01	No Photo Available
Heckard's pepper-grass	<u><i>Lepidium latipes</i></u> <u>var. <i>heckardii</i></u>	Brassicaceae	annual herb	Mar-May	None	None	G4T1	S1	1B.2	Yes	1994-01-01	 2018 Jennifer Buck
hoary navarretia	<u><i>Navarretia eriocephala</i></u>	Polemoniaceae	annual herb	May-Jun	None	None	G4?	S4?	4.3	Yes	1974-01-01	 © 2018 Leigh Johnson
hogwallow starfish	<u><i>Hesperevax caulescens</i></u>	Asteraceae	annual herb	Mar-Jun	None	None	G3	S3	4.2	Yes	2001-01-01	 © 2017 John Doyen
legenere	<u><i>Legenere limosa</i></u>	Campanulaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.1	Yes	1974-01-01	 ©2000 John Game
marsh skullcap	<u><i>Scutellaria galericulata</i></u>	Lamiaceae	perennial rhizomatous herb	Jun-Sep	None	None	G5	S2	2B.2		1994-01-01	 © 2021 Scot Loring
Mason's lilaeopsis	<u><i>Lilaeopsis masonii</i></u>	Apiaceae	perennial rhizomatous herb	Apr-Nov	None	CR	G2	S2	1B.1	Yes	1974-01-01	No Photo Available

pappose tarplant	<i>Centromadia parryi ssp. parryi</i>	Asteraceae	annual herb	May-Nov	None	None	G3T2	S2	1B.2	Yes	2004- 01-01	 © 2016 John Doyen
Parry's rough tarplant	<i>Centromadia parryi ssp. rudis</i>	Asteraceae	annual herb	May-Oct	None	None	G3T3	S3	4.2	Yes	2007- 05-22	 © 2019 John Doyen
Peruvian dodder	<i>Cuscuta obtusiflora var. glandulosa</i>	Convolvulaceae	annual vine (parasitic)	Jul-Oct	None	None	G5T4?	SH	2B.2		2011- 08-24	No Photo Available
Sacramento Orcutt grass	<i>Orcuttia viscida</i>	Poaceae	annual herb	Apr- Jul(Sep)	FE	CE	G1	S1	1B.1	Yes	1974- 01-01	 © Rick York and CNPS
saline clover	<i>Trifolium hydrophilum</i>	Fabaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.2	Yes	2001- 01-01	 © 2005 Dean Wm Taylor
Sanford's arrowhead	<i>Sagittaria sanfordii</i>	Alismataceae	perennial rhizomatous herb (emergent)	May- Oct(Nov)	None	None	G3	S3	1B.2	Yes	1984- 01-01	 ©2013 Debra L. Cook
side- flowering skullcap	<i>Scutellaria lateriflora</i>	Lamiaceae	perennial rhizomatous herb	Jul-Sep	None	None	G5	S2	2B.2		1994- 01-01	No Photo Available
slender Orcutt grass	<i>Orcuttia tenuis</i>	Poaceae	annual herb	May- Sep(Oct)	FT	CE	G2	S2	1B.1	Yes	1974- 01-01	 © 2013 Justy Leppert
stinkbells	<i>Fritillaria agrestis</i>	Liliaceae	perennial bulbiferous herb	Mar-Jun	None	None	G3	S3	4.2	Yes	1980- 01-01	 © 2016 Aaron Schusteff
Suisun Marsh aster	<i>Symphotrichum lentum</i>	Asteraceae	perennial rhizomatous herb	(Apr)May- Nov	None	None	G2	S2	1B.2	Yes	1974- 01-01	No Photo Available

valley brodiaea	<u>Brodiaea rosea</u> <u>ssp. vallicola</u>	Themidaceae	perennial bulbiferous herb	Apr- May(Jun)	None	None	G5T3	S3	4.2	Yes	2019- 01-07	 © 2011 Steven Perry
watershield	<u>Brasenia schreberi</u>	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	None	None	G5	S3	2B.3		2010- 10-27	 ©2014 Kirsten Bovee
woolly rose- mallow	<u>Hibiscus</u> <u>lasiocarpos var.</u> <u>occidentalis</u>	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	None	None	G5T3	S3	1B.2	Yes	1974- 01-01	 © 2020 Steven Perry

Showing 1 to 29 of 29 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website <https://www.rareplants.cnps.org> [accessed 17 November 2023].

Appendix D. NMFS Species List

From: [Katie Jacobson](#)
To: [Katie Jacobson](#)
Date: Monday, July 15, 2024 11:09:07 AM

Quad Name **Florin**

Quad Number **38121-D4**

ESA Anadromous Fish

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) - **X**

SRWR Chinook Salmon ESU (E) - **X**

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) - **X**

Eulachon (T) -

sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat -

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat -

Eulachon Critical Habitat -

sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -

Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -

Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - **X**
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds

**See list at left and consult the NMFS Long Beach office
562-980-4000**

MMPA Cetaceans -
MMPA Pinnipeds -

Appendix E. Aquatic Resource Delineation Report

AQUATIC RESOURCE DELINEATION REPORT

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project October 2019

Prepared By:

Dokken Engineering
110 Blue Ravine Road, Suite 200
Folsom, California 95630
(916) 858-0642



Prepared For:

Sacramento District
US Army Corps of Engineers, Sacramento District
1325 J Street, Room 1350
Sacramento, California 95814-2922

Executive Summary

The City of Elk Grove (City) is proposing to construct the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (Project), within Jurisdictional Waters of the United States within the Project area, located in Elk Grove, Sacramento County, California (Figure 1. Project Vicinity and Figure 2. Project Location). The proposed Project will involve construction of a 2.2-mile long multi-functional corridor along the banks adjacent to segments of Laguna and Whitehouse Creeks, located between East Stockton Boulevard and Camden Park.

Biological field surveys were conducted by Dokken Engineering biologists, Andrew Dellas and Scott Salembier on April 4, 2018, and jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018. The purpose of the surveys was to identify and delineate waters present within the proposed project area, identify habitat types, and assess habitat suitability for rare or special status species that may be impacted by the proposed project. Delineation procedures followed the methods outlined in the most recent United States Army Corps of Engineers (2008) *A Field Guide to Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States*, and wetland delineations followed the methods of the United States Army Corps of Engineers *Wetland Delineation Manual* (1987) and the most recent United States Army Corps of Engineers *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (2008).

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Acronyms and Abbreviations

amsl	Above mean sea level
BSA	Biological Study Area
CEQA	California Environmental Quality Act
IS/MND	Initial Study/Mitigated Negative Declaration
NEPA	National Environmental Policy Act
NRCS	National Resource Conservation Service
NWI	National Wetland Inventory
OHWM	Ordinary High Water Mark
USACE	United States Army Corps of Engineers

Chapter 1. Introduction

The contact information for the applicant, property owner, and agent are as follows:

Applicant
City of Elk Grove
ATTN: Kristin Parsons
8401 Laguna Palms Way
Elk Grove, CA 95758

Property Owners
City of Elk Grove
8401 Laguna Palms Way
Elk Grove, CA 95758

East Lawn Inc.
ATTN: Alan Fisher
9189 E. Stockton Blvd.
Elk Grove, CA 95624

Creekside Christian Church
ATTN: Kim Shepherd
8939 E. Stockton Blvd.
Elk Grove, CA 95624

Shortline Lake
ATTN: Jeffrey Goldman
Shortline Lane
Elk Grove, CA 95624

Benito Murillo Living Trust
ATTN: Benito Murillo
APN: 116-0030-076
E. Stockton Blvd.
Elk Grove, CA 95624

Agent
Dokken Engineering
ATTN: Andrew Dellas
110 Blue Ravine Rd, St 200
Folsom, CA 95630
Ph: (916) 858-0642
adellas@dokkenengineering.com

The proposed Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (Project) is located in Elk Grove, Sacramento County, California (**Appendix A – Project Vicinity and Project Location**). The Survey Area for this delineation report includes all areas within the Biological Study Area (BSA). Prior to field surveys, the BSA was defined as the proposed project impact area and a 250-foot buffer from the City’s existing floodway easement to accommodate the design and facilitate construction.

The purpose of this report is to identify and describe aquatic resources in the Survey Area. Potential project effects to sensitive plants, fish or wildlife species, and historical resources were evaluated during the development of a California Environmental Quality Act (CEQA) Initial Study with a Mitigated Negative Declaration (IS/MND) for the proposed Project. The IS/MND is anticipated for approval August 2018.

This report facilitates efforts to:

1. Avoid or minimize impacts to aquatic resources during the project design process.
2. Document aquatic resource boundary determinations for review by regulatory authorities.
3. Provide background information regarding aquatic resources in the Survey Area.

1.1 Project Description

The Project consists of constructing a multi-functional corridor between East Stockton Boulevard and Camden Park in the City of Elk Grove. The maintenance access road alignment begins at East Stockton Boulevard, approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive. The alignment follows a west-east orientation before crossing Whitehouse Creek. After this crossing, the alignment turns south and parallels the eastern bank of Whitehouse Creek before turning southeast and crossing Laguna Creek at two locations before terminating at the existing Laguna Creek Trail system near Beckington Drive and White Peacock Way. During the final design and right-of-way phases of the Project, the alignment may traverse further south along Whitehouse Creek before turning southeast to cross Laguna Creek.

The Project includes construction of a 10-foot-wide paved surface (no pavement striping) with 2 feet of unpaved shoulders. Pre-fabricated steel or concrete bridges would provide necessary access across Laguna and Whitehouse Creeks. The Project would be constructed in phases, dependent on funding, with the last phase of the Project converting the paved maintenance access road into a Class 1 multi-functional trail corridor connection between East Stockton Boulevard and Camden Park, with pavement striping and trail amenities, such as benches and trash containers. This last phase of the Project would complete a gap within the trail system in accordance with the City's Bicycle, Pedestrian, and Trails Master Plan.

Additional Project features would include construction of floodway excavation areas to offset the floodplain encroachments from the maintenance road/multi-functional trail and fencing to prevent pedestrian incursion beyond the multi-functional corridor. Right-of-way acquisitions and temporary construction easements are needed where the multi-functional corridor passes through privately-owned parcels and will be obtained during final design of the Project.

Right-of-way acquisitions and temporary construction easements are needed where the multi-functional corridor passes through privately-owned parcels.

This Project is funded through the City's Storm Drainage Master Plan and is subject to compliance with the California Environmental Quality Act (CEQA). The lead agency for CEQA compliance is the City. The Project is also subject to compliance with the National Environmental Policy Act (NEPA) due to anticipated federal permitting through the U.S. Army Corps of Engineers federal nexus during the Clean Water Act Section 404 permitting process for project impacts to waters of the U.S.

1.1.1. Purpose

The proposed project would construct approximately 2.2 miles of multi-function corridor to provide maintenance access within the City's floodway easement along Laguna Creek. Additionally, as part of Phase 2 of the Project, the maintenance access road would develop and link a disconnected section of the Laguna Creek Trail system.

1.1.2. Need

The Project is needed to provide maintenance access to the reaches of Laguna Creek and Whitehouse Creek from East Stockton Boulevard to the Camden Park.

Chapter 2. Location

The Study Area encompasses approximately 125 acres and includes approximately 4,000 linear feet of Laguna Creek from East Stockton Boulevard to Camden Lake. The Study Area is approximately 4,300 feet (0.8 miles) from east to west and approximately 1,700 feet (0.33 miles) from north to south. The western terminus of the Project is at Creekside Christian Church at 8939 E. Stockton Boulevard, Elk Grove, California 95624, and the eastern terminus is located south of the intersection of Beckington Drive and White Peacock Way.

Directions to the western terminus of the proposed project from the United States Army Corps of Engineers (USACE) Sacramento District office are as follows:

- Head east on J St. towards 14th St.
- Turn left onto 28th St.
- Turn right onto H St.
- Turn right onto the I-80 W ramp to CA-99 S/US-50.
- Merge onto I-80 W and continue onto CA-99 S/S Sacramento Fwy.
- Use the right two lanes to take exit 288 for Sheldon Road.
- Turn right onto Sheldon Road.
- Turn right onto E. Stockton Blvd to 8939 E. Stockton Blvd.

Directions to the eastern terminus of the proposed project are as follows:

- Head east on J St. towards 14th St.
- Turn left onto 28th St.
- Turn right onto H St.
- Turn right onto the I-80 W ramp to CA-99 S/US-50.
- Merge onto I-80 W and continue onto CA-99 S/S Sacramento Fwy.
- Use the right two lanes to take exit 288 for Sheldon Road.
- Turn right onto Sheldon Road.
- Turn right onto Harding Hall Drive.
- Turn left on Beckington Drive and follow to intersection of White Peacock Way.

Chapter 3. Methods

Biological field surveys were conducted by Dokken Engineering biologists, Andrew Dellas and Scott Salembier on April 4, 2018, and jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018. The purpose of the surveys was to identify and delineate waters present within the proposed project area, identify habitat types, and assess habitat suitability for rare or special status species that may be impacted by the proposed project. Delineation procedures followed the methods outlined in the most recent United States Army Corps of Engineers (2008) *A Field Guide to Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States*, and wetland delineations followed the methods of the United States Army Corps of Engineers *Wetland Delineation Manual* (1987) and the most recent United States Army Corps of Engineers *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (2008). Observed OHWM and wetland features were mapped in the field with a Trimble GeoXT Geoexplorer 6000 Series handheld GPS unit.

Chapter 4. Existing Conditions

4.1 Landscape Setting

The Survey Area is approximately 125 acres in size and is located within the Sacramento Valley Subregion of the Great Central Valley Region floristic province with elevations ranging between 45-50 feet above mean sea level (amsl) (Jepson Flora Project 2018).

The topography of the Survey Area is relatively flat, as it is situated in the Sacramento Valley of the Great Valley geomorphic range with underlying shale, sandstone, and gravel deposits (Jennings et al. 1977; Norris and Webb 1976) (**Appendix A. Topographic Map**). Hydrology in the Survey Area includes Laguna and Whitehouse Creeks and associated emergent marsh, seasonal wetlands, seasonal wetland swales, vernal pools, and vernal swales. The dominant land use within the Survey Area is institutional with the Creekside Christian Church north of Laguna Creek and the East Lawn Cemetery south of Laguna Creek.

The Natural Resource Conservation Service (NRCS) Custom Soil Resource Report for the Project (Department of Agriculture 2018) identifies soils within the Study Area as:

- Bruella sandy loam, 0 to 2 percent slopes (13.5%)
- Dierssen sandy clay loam, drain, 0 to 2 percent slopes (6.0%)
- Madera loam, 0 to 2 percent slopes (8.5%)
- San Joaquin silt loam, leveled, 0 to 1 percent slopes (9.6%)
- San Joaquin silt loam, 0 to 3 percent slopes (62.4%)

4.2 Aquatic Resources

4.2.1 Overview

Aquatic resources within the Study Area include Laguna Creek, Whitehouse Creek, and associated wetland features: vernal pools, vernal swales, seasonal wetlands, seasonal wetland swales, and emergent marsh (**Appendix A. Extent of Jurisdictional Waters**).

Historic Setting

On 1947 aerial imagery Laguna and Whitehouse Creeks are visible as natural stream channels flowing east to west with minor human effects from agricultural production along the banks of both creeks (NETR 2018).

On 1957 aerial imagery Laguna Creek is still visible as a natural stream channel; whereas, Whitehouse Creek has begun to be channelized and redirected. Additionally, major freeways, interchanges and bridges are visible over both creek channels.

Between 1966 and 1993 residential developments begin to be built throughout the Project vicinity, including the construction of Shortline Lake and the homes surrounding it. Residential and commercial development continues and between 1998 and 2002, a residential development north of Laguna Creek and the Creekside Christian Church was constructed and significantly changed the orientation of Whitehouse Creek, cutting off its natural channel and redirecting the creek south to confluence with Laguna Creek approximately 0.25 miles east of E. Stockton Boulevard.

From 2002 to present day, no new significant changes to the topography of the land or the channels of Laguna Creek or Whitehouse Creek has occurred.

Description of Aquatic Resources

Perennial Creeks

The Study Area includes the perennial Laguna Creek and Whitehouse Creek. Whitehouse Creek and Laguna Creek are part of the Morrison Creek watershed, and Laguna Creek subwatershed, within the Lower Sacramento River Hydrologic Unit (HUC 6) (Caltrans 2018). Whitehouse Creek flows from east to west and has been redirected from its natural orientation around residential developments north of the Study Area. Whitehouse Creek then joins with Laguna Creek within the Study Area approximately 0.25 miles east of East Stockton Boulevard. Approximately 1,500 linear feet of Whitehouse Creek is within the Study Area. Laguna Creek flows east to west travelling approximately 4,000 linear feet through the Study Area from Camden Lake to East Stockton Boulevard. Whitehouse Creek and Laguna Creek ultimately make connection with the Sacramento River approximately 6 miles west of the Study Area. Approximately 10.74 acres of the Study Area was delineated as perennial creek.

Vernal Pools

Vernal pools are characterized by seasonal inundation and their potential to support vernal pool species. A wide variety of herbaceous species are associated with this community type, including Italian ryegrass, Mediterranean barley, coyote thistle (*Eryngium* sp.), smooth goldfields (*Lasthenia glaberrima*), Fremont's goldfields (*Lasthenia fremontii*), vernal pool buttercup (*Ranunculus bonariensis* var. *trisepalus*), and woolly marbles (*Psilocarphus* spp.). Additional species that may be present include Sacramento mint (*Pogogyne zizyphoroides*), hyssop loosestrife (*Lythrum hyssopifolium*), toad rush (*Juncus bufonius*), popcorn flower (*Plagiobothrys* spp.), alkali weed, mayweed, and curly dock. Vernal pool communities have the potential to support special-status vernal pool invertebrates, such as fairy shrimp (*Branchinecta* spp.) and tadpole shrimp (*Lepidurus* spp.). The Study Area includes vernal pool communities. A total of 12 vernal pools were delineated within the Study Area consisting of approximately 0.60 acres.

Vernal Swale

Vernal pools are sometimes connected to each other by small drainages known as vernal swales, forming complexes of vernal pools. Vernal swales differ from vernal pools in that they function distinctly as shallow, seasonal conveyance channels. They typically connect vernal pools or convey shallow seasonal flows down gradual inclines often collecting water in a vernal pool or seasonal wetland. Vernal swales and pools typically share plant species and successive "rim bloom" plant assemblages and soil types (California Open Lands 2018). A total of 2 vernal swale areas were delineated within the Study Area consisting of approximately 0.24 acres.

Seasonal Wetland

Seasonal wetlands are defined as ephemeral wetlands that pond during the rainy season and dry during the summer dry season. This habitat type is dominated by hydrophytic vegetation types of grasses, herbs, and forbs. The seasonal wetland habitat type occurs in the adjacent lands of the Stone Lakes NWR in the northwest quadrant of the Study Area. Seasonal wetlands can provide habitat for vernal pool associates, and habitat for a wide variety of wildlife including song birds, waterfowl, reptiles, and other wildlife species. A total of 20 seasonal wetland features were delineated within the Study Area consisting of approximately 9.47 acres.

Seasonal Wetland Swale

The seasonal swale land cover type is defined as low meandering channels that tend to be saturated long enough to support vegetative associations. Swale features often represent the headwaters of streams, connect seasonal wetlands, and/or drain small watersheds into defined creeks. Swales can be supported by minor groundwater seepage. Swales contain rabbitsfoot

grass (*Polypogon monspeliensis*), fireweed (*Epilobium pygmaeum*), fiddle dock (*Rumex pulcher*), and prickleseed buttercup (*Ranunculus muricatus*). Seasonal swales that occur within and between vernal pool complexes are classified as vernal swales. A total of 6 seasonal wetland swale features were delineated within the Study Area consisting of approximately 1.23 acres.

Emergent Marsh

Freshwater emergent marsh wetlands are characterized by erect, rooted herbaceous hydrophytes such as common cattail. Emergent wetlands are flooded frequently enough so that the roots of the vegetation are in an anaerobic environment. On the upper margins of this habitat, saturated or periodically flooded soils support several moist soil plant species including Baltic rush (*Juncus balticus*), tall flatsedge (*Cyperus eragrostis*), smartweed (*Persicaria spp.*), and, on more alkali sites, saltgrass (*Distichlis spicata*). Lower, wetter portions of freshwater emergent wetlands in the Project area are composed of cattails, bulrush, and floating primrose. In the Project area, several freshwater emergent wetlands exist west of Franklin Boulevard. A total of 3 emergent marsh features were delineated within the Study Area consisting of approximately 1.77 acres.

Table 1: Aquatic Resources within the Survey Area

Aquatic Resource Name	Aquatic Resources Classification			Aquatic Resource Size (acre) Required for all resources	Aquatic Resource Size (linear feet) Required for only stream channels
	Cowardin*	Latitude	Longitude		
PC-1	R2UBF	38.43086944	-121.39694440	9.28	4,000
PC-2	R2UBF	38.43155560	-121.39277780	1.45	1,500
EM-1	PEM1E	38.43051111	-121.38916667	0.31	--
EM-2	PEM1E	38.38063333	-121.47916667	1.05	--
EM-3	PEM1E	38.37844444	-121.47555556	0.38	--
EM-4	PEM1E	38.42896389	-121.38527778	0.03	--
SW-1	PEM1C	38.42976389	-121.38666667	0.59	--
SW-2	PEM1C	38.43059444	-121.38722222	0.03	--
SW-3	PEM1C	38.42997778	-121.38722222	0.03	--
SW-4	PEM1C	38.43038333	-121.38777778	0.25	--
SW-5	PEM1C	38.42928333	-121.38861111	0.56	--
SW-6	PEM1C	38.43006389	-121.39305556	0.01	--
SW-7	PEM1C	38.42902778	-121.39277778	0.41	--
SW-8	PEM1C	38.42972778	-121.39555556	0.69	--

Aquatic Resource Name	Aquatic Resources Classification			Aquatic Resource Size (acre) Required for all resources	Aquatic Resource Size (linear feet) Required for only stream channels
	Cowardin*	Latitude	Longitude		
SW-9	PEM1C	38.43158889	-121.39027778	0.09	--
SW-10	PEM1C	38.43161944	-121.39111111	0.03	--
SW-11	PEM1C	38.43090700	-121.39445000	0.02	--
SW-12	PEM1C	38.43068300	-121.39457800	0.03	--
SW-13	PEM1C	38.43088200	-121.39577500	0.01	--
SW-14	PEM1C	38.43352200	-121.39708700	2.17	--
SW-15	PEM1C	38.43360300	-121.39789800	0.94	--
SW-16	PEM1C	38.43229900	-121.39042700	0.13	--
SW-17	PEM1C	38.43309500	-121.39290000	0.21	--
SW-18	PEM1C	38.42980600	-121.38887600	0.11	--
SW-19	PEM1C	38.43424700	-121.39876700	0.29	--
SW-20	PEM1C	38.43018000	-121.396342	2.87	--
SWS-1	PEM1A	38.42923400	-121.38945800	0.27	--
SWS-2	PEM1A	38.42880000	-121.38599300	0.18	--
SWS-3	PEM1A	38.43168900	-121.39059800	0.52	--
SWS-4	PEM1A	38.43122500	-121.39391900	0.21	--
SWS-5	PEM1A	38.43350800	-121.39821000	0.04	--
SWS-6	PEM1A	38.43052200	-121.39474700	0.01	--
VP-1	PEM1A	38.42847700	-121.38904600	0.27	--
VP-2	PEM1A	38.42858900	-121.38819500	0.03	--
VP-3	PEM1A	38.42834300	-121.38787300	0.01	--
VP-4	PEM1A	38.42987800	-121.39184700	0.01	--

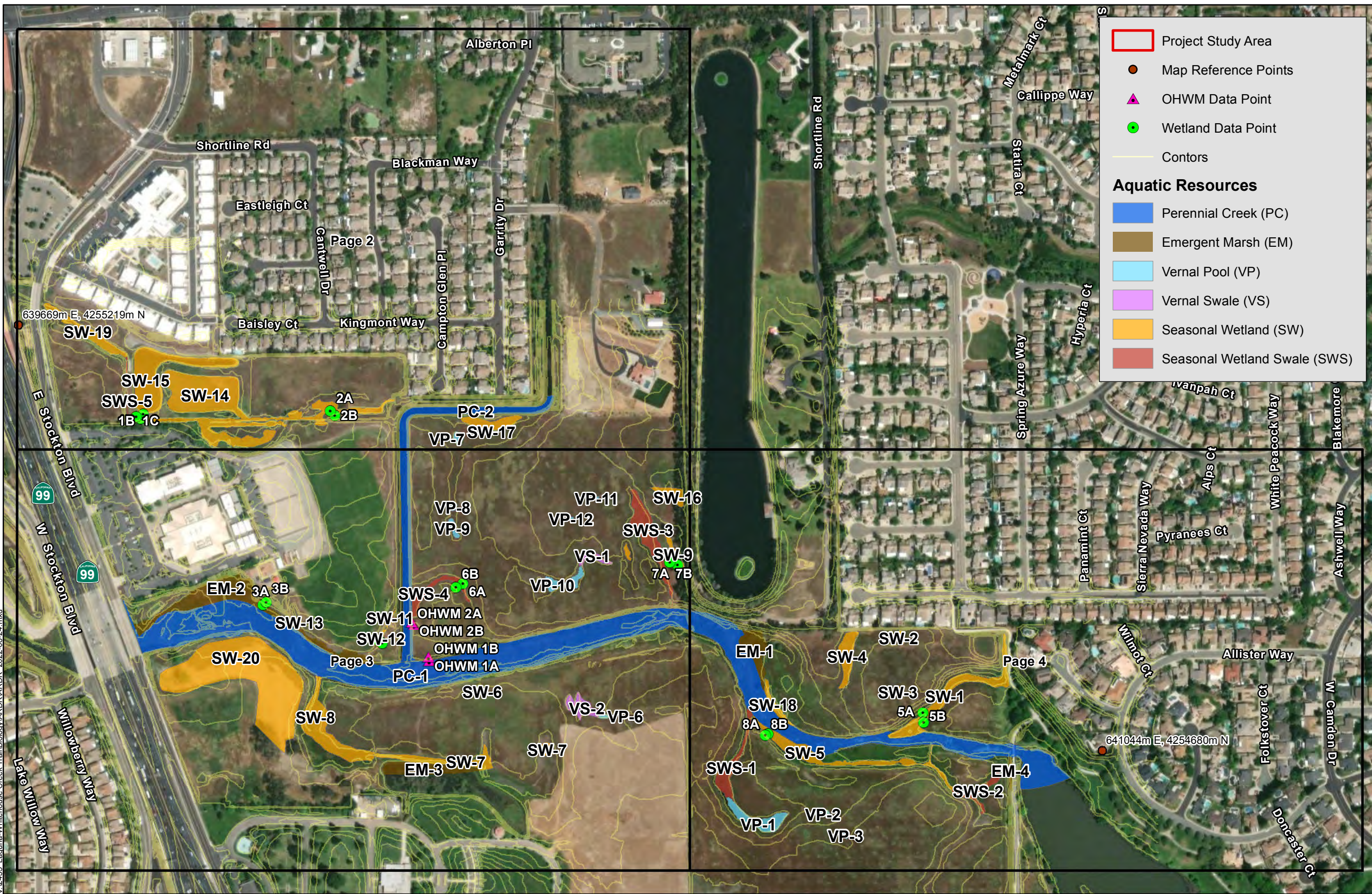
Aquatic Resource Name	Aquatic Resources Classification			Aquatic Resource Size (acre) Required for all resources	Aquatic Resource Size (linear feet) Required for only stream channels
	Cowardin*	Latitude	Longitude		
VP-5	PEM1A	38.42987100	-121.39171500	0.01	--
VP-6	PEM1A	38.42975500	-121.39137700	0.02	--
VP-7	PEM1A	38.43295600	-121.39395600	0.04	--
VP-8	PEM1A	38.43216800	-121.39350700	0.01	--
VP-9	PEM1A	38.43193500	-121.39351000	0.04	--
VP-10	PEM1A	38.43126600	-121.39204900	0.13	--
VP-11	PEM1A	38.43224200	-121.39140700	0.01	--
VP-12	PEM1A	38.43201500	-121.39178100	0.01	--
VS-1	PEM1A	38.43158500	-121.39151000	0.08	--
VS-2	PEM1A	38.42983700	-121.39158300	0.16	--
TOTAL				23.52	5,500

*NWI 2018, Cowardin et.al. 1979

Chapter 5. References

- California Open Lands. 2018. *Conserved Habitats*. Available at: <<http://www.californiaopenlands.org/conserved-habitats.html>> (accessed 06/05/2018).
- Caltrans. 2018. Caltrans Water Quality Planning Tool. Available at: <<http://svctenvims.dot.ca.gov/wqpt/wqpt.aspx>> (accessed 05/23/2018).
- Cowardin et.al. 1979. Classification of Wetlands and Deepwater Habitats of the United States.
- Department of Agriculture. 2018. National Resources Conservation Services (NRCS). Custom Soil Resource Report for WDR018-LCWC. Generated May 21, 2018. Available at: <<http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>> (accessed 05/21/2018).
- NETR. 2018. Nationwide Environmental Title Research, LLC. Historic Aerials and Topographic Maps. Available at: < <http://www.historicaerials.com/>> (accessed 06/05/2018).
- Jennings, C.W., R.G. Strand, and T.H. Rogers. 1977. Geologic Map of California: California Division of Mines and Geology. Scale 1:750000.
- Jepson Flora Project. 2018. *Jepson eFlora*. Available at: <<http://ucjeps.berkeley.edu/IJM.html>> (accessed 06/06/18).
- Norris, R.M. and R.W. Webb. 1976. Geology of California. New York: John Wiley & Sons.
- NWI. 2017. National Wetlands Inventory. United States Fish and Wildlife Service. Available at: <<https://www.fws.gov/wetlands/data/mapper.HTML>> (accessed 06/05/2018).
- United States Army Corps of Engineers (USACE). 1987. Corps of Engineers Wetland Delineation Manual. Environmental Laboratory, U.S. Army Corps of Engineers Waterways Experiment Station.
- United States Army Corps of Engineers (USACE). 2008a. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). Available at: <http://www.usace.army.mil/missions/civilworks/regulatoryprogramandpermits/reg_supp.aspx> (accessed 04/24/2018).
- United States Army Corps of Engineers (USACE). 2008b. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. Available at: <http://www.spk.usace.army.mil/Portals/12/documents/regulatory/pdf/Ordinary_High_Watermark_Manual_Aug_2008.pdf> (accessed 02/15/2018).
- United States Army Corps of Engineers (USACE). 2016. Arid West 2016 Regional Wetland Plant List. Available at: <http://wetland-plants.usace.army.mil/nwpl_static/index.html> (accessed 04/24/2018).

Appendix A – Aquatic Resource Delineation Map



Legend

- Project Study Area
- Map Reference Points
- OHWM Data Point
- Wetland Data Point
- Contours

Aquatic Resources

- Perennial Creek (PC)
- Emergent Marsh (EM)
- Vernal Pool (VP)
- Vernal Swale (VS)
- Seasonal Wetland (SW)
- Seasonal Wetland Swale (SWS)

Wetland ID	Existing Acreage
PC-1	9.28
PC-2	1.45
EM-1	0.31
EM-2	1.05
EM-3	0.38
EM-4	0.03
SW-1	0.59
SW-2	0.03
SW-3	0.03
SW-4	0.25
SW-5	0.56
SW-6	0.01
SW-7	0.41
SW-8	0.69
SW-9	0.09
SW-10	0.03
SW-11	0.02
SW-12	0.03
SW-13	0.01
SW-14	2.17
SW-15	0.94
SW-16	0.13
SW-17	0.21
SW-18	0.11
SW-19	0.29
SW-20	2.87
SWS-1	0.27
SWS-2	0.18
SWS-3	0.52
SWS-4	0.21
SWS-5	0.04
SWS-6	0.01
VP-1	0.27
VP-2	0.03
VP-3	0.01
VP-4	0.01
VP-5	0.01
VP-6	0.02
VP-7	0.04
VP-8	0.01
VP-9	0.04
VP-10	0.13
VP-11	0.01
VP-12	0.01
VS-1	0.08
VS-2	0.16
Total	24.03

V:\2435_Laguna-Whitehouse-Creek-Trail\Biology\ARD\ARDR_2022-09-24.mxd

Coordinate System: NAD 1983 UTM Zone 10
 Projection: Transverse Mercator
 Datum: North American 1983

1 inch = 400 feet

Prepared by:
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 110 Blue Ravine Road, Suite 200
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 Fax (916) 858-0643 www.dokkenengineering.com

Prepared for:
 City of Elk Grove
 8401 Laguna Palms Way
 Elk Grove, CA 95758

Delineator: Andrew Dellas
 Delineation Date: April 24, 25, 26, 2018
 Aerial Photography Source: ESRI Maps Online, 2016
 This delineation of water of the United States is subject to verification by the U.S. Army Corps of Engineers (Corps).
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Aquatic Resource Delineation Map
Page 1 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project
 WDR018 - City of Elk Grove, California



Legend

- Project Study Area
- Map Reference Points
- ▲ OHWM Data Point
- Wetland Data Point
- Contours

Aquatic Resources

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- Emergent Marsh (EM)
- Vernal Pool (VP)
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VP-8	0.01
VP-9	0.04
VP-10	0.13
VP-11	0.01
VP-12	0.01
VS-1	0.08
VS-2	0.16
Total	24.03

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639669m E, 4255219m N

Matchline - Page 3

Coordinate System: NAD 1983 UTM Zone 10
 Projection: Transverse Mercator
 Datum: North American 1983
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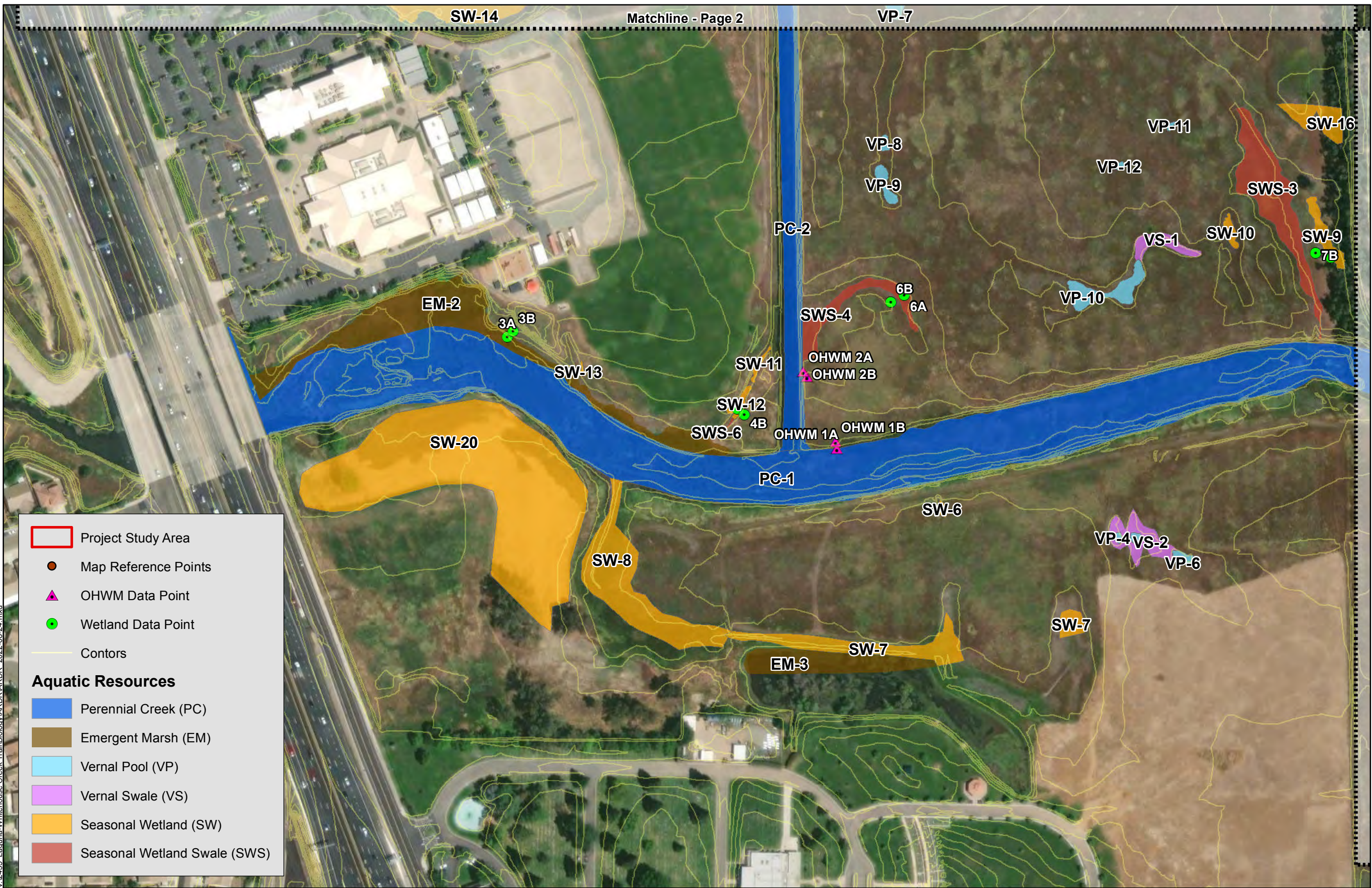
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 Aerial Photography Source: ESRI Maps Online, 2016
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Aquatic Resource Delineation Map
Page 2 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project
 WDR018 - City of Elk Grove, California

SW-14

Matchline - Page 2

VP-7



Legend

- Project Study Area
- Map Reference Points
- OHWM Data Point
- Wetland Data Point
- Contours

Aquatic Resources

- Perennial Creek (PC)
- Emergent Marsh (EM)
- Vernal Pool (VP)
- Vernal Swale (VS)
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- Seasonal Wetland Swale (SWS)

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SW-18	0.11
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SWS-1	0.27
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VP-11	0.01
VP-12	0.01
VS-1	0.08
VS-2	0.16
Total	24.03

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1 inch = 200 feet

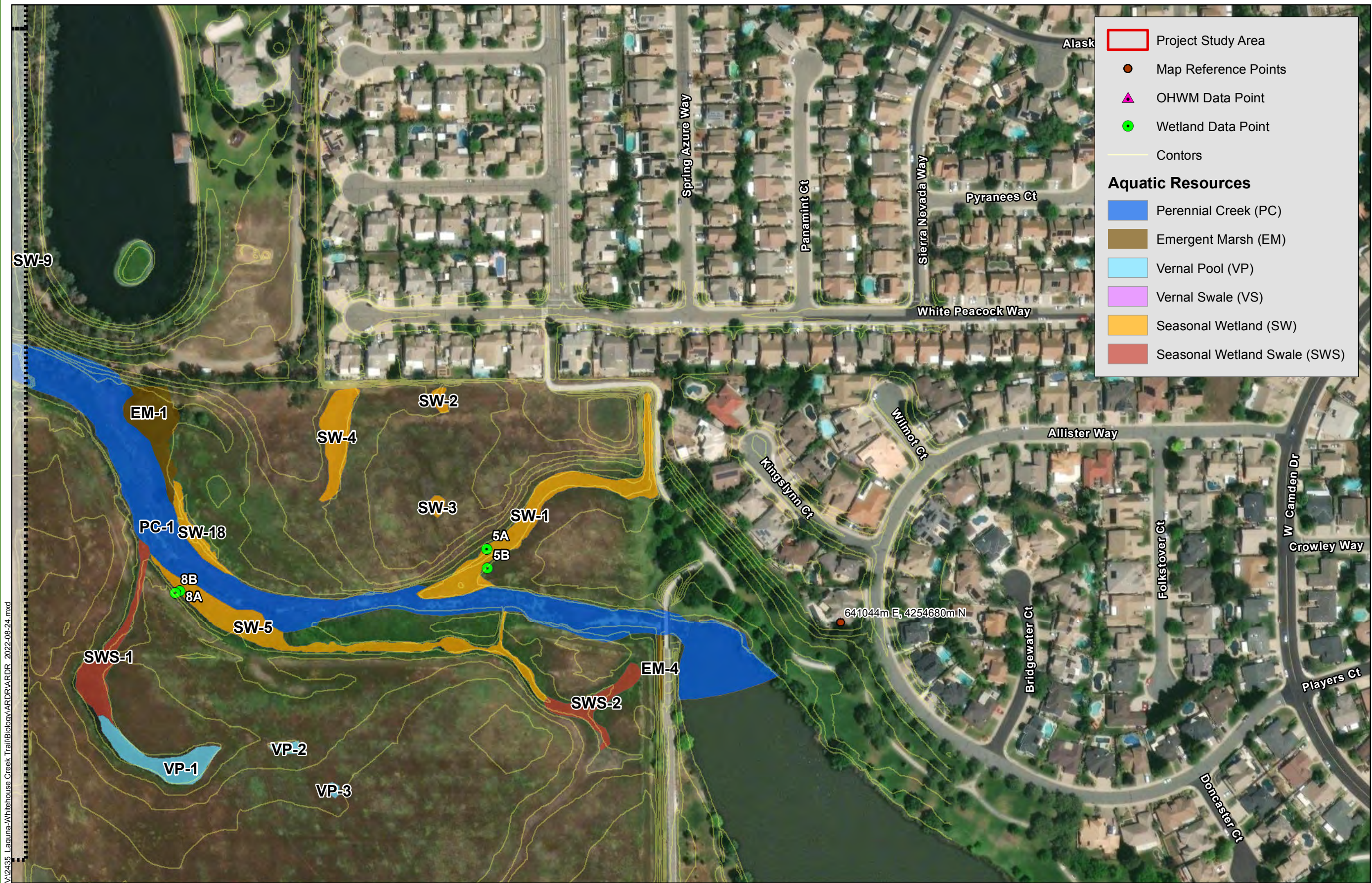
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Aquatic Resource Delineation Map
Page 3 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project
 WDR018 - City of Elk Grove, California



Legend

- Project Study Area
- Map Reference Points
- ▲ OHWM Data Point
- Wetland Data Point
- Contours

Aquatic Resources

- Perennial Creek (PC)
- Emergent Marsh (EM)
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VP-11	0.01
VP-12	0.01
VS-1	0.08
VS-2	0.16
Total	24.03

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Aquatic Resource Delineation Map
Page 4 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project
 WDR018 - City of Elk Grove, California

Appendix B – Supporting Resources

Vicinity Map

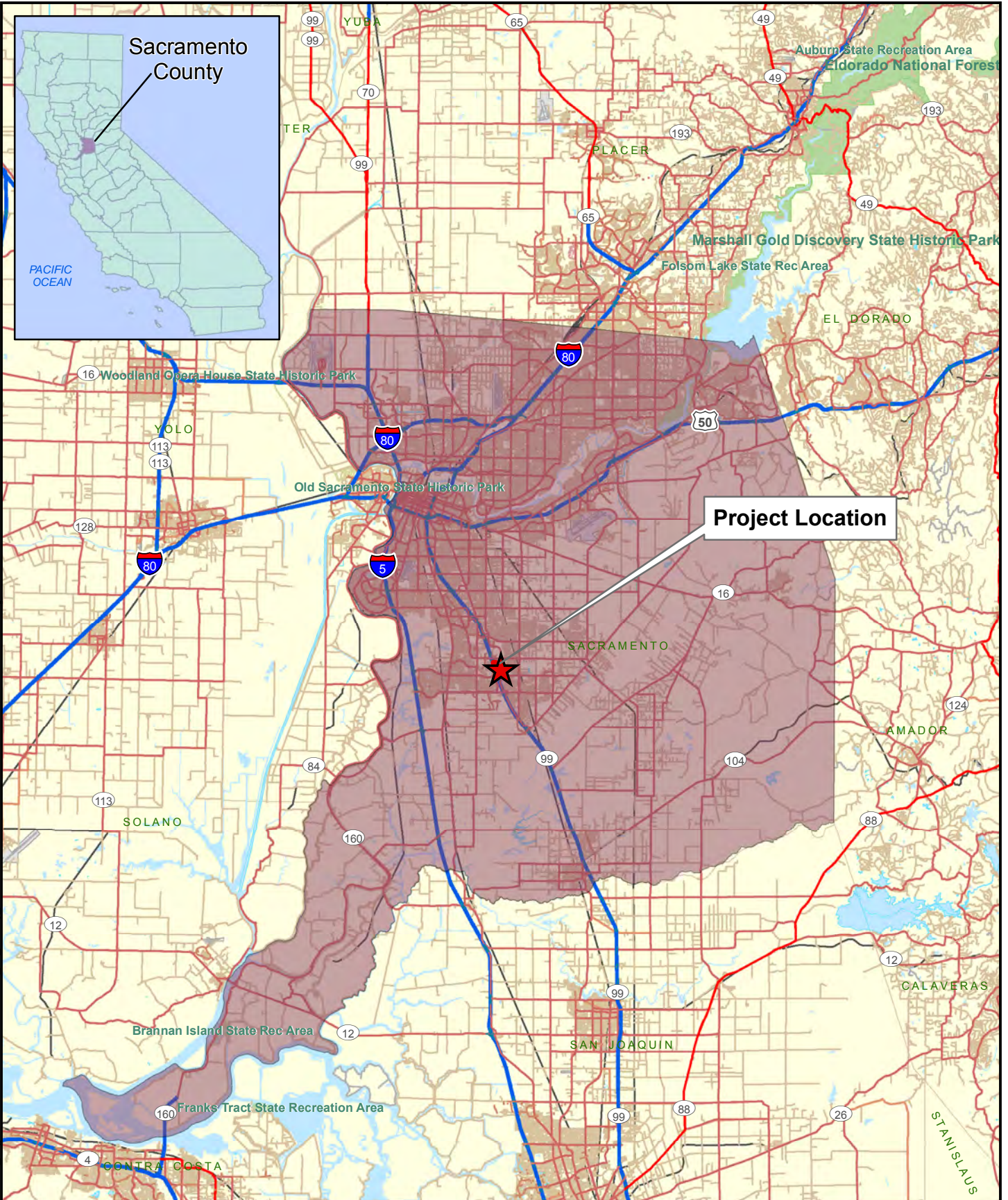
Location Map

Project Features Map

Topographic Map

Vegetation Communities within the BSA

NRCS Web Soil Survey Report

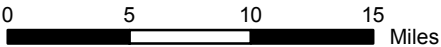


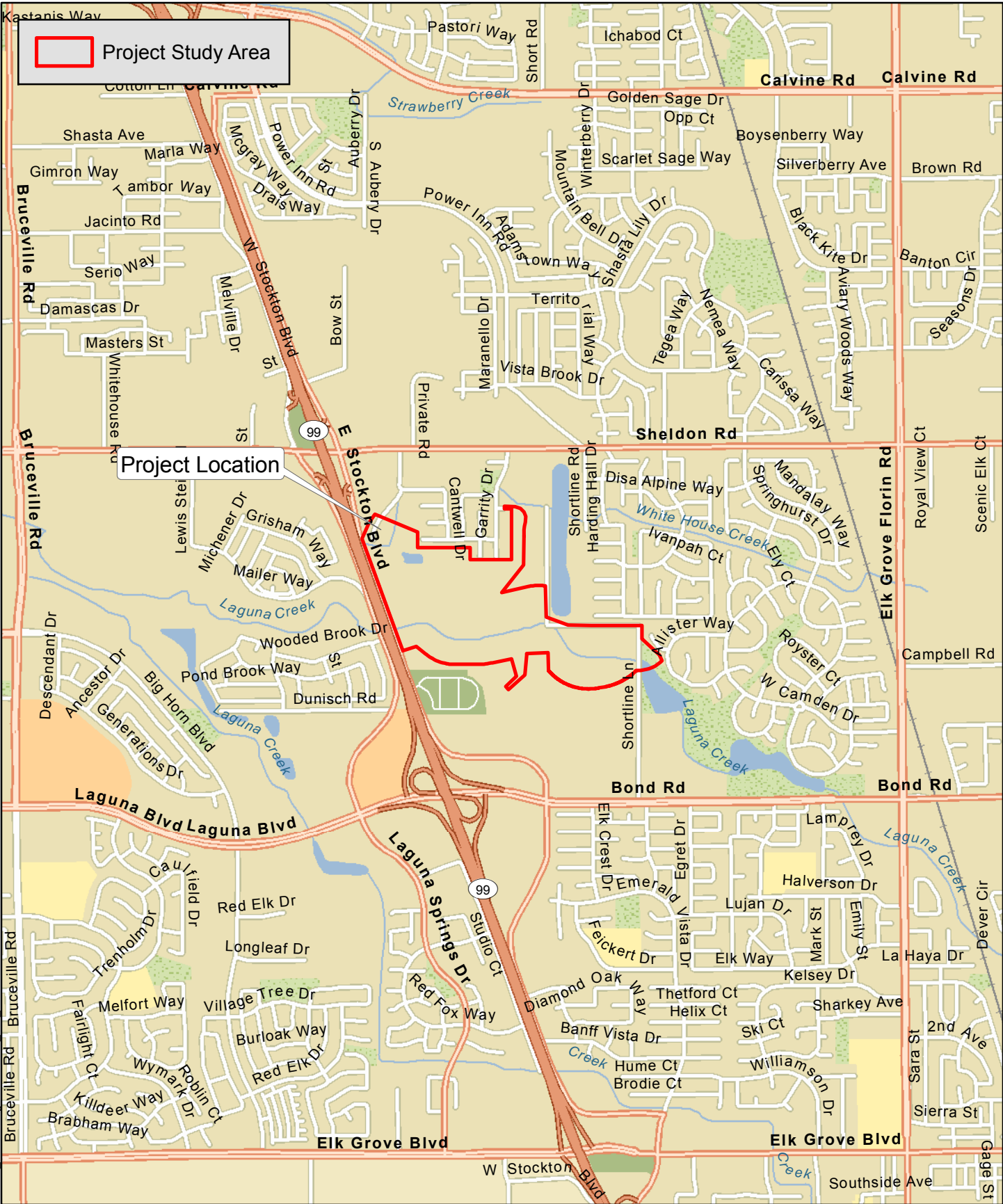
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Source: ESRI 2008; Dokken Engineering/3/30/2018; Created By: amyd

Project Vicinity

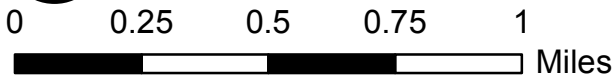
Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, Sacramento County, California





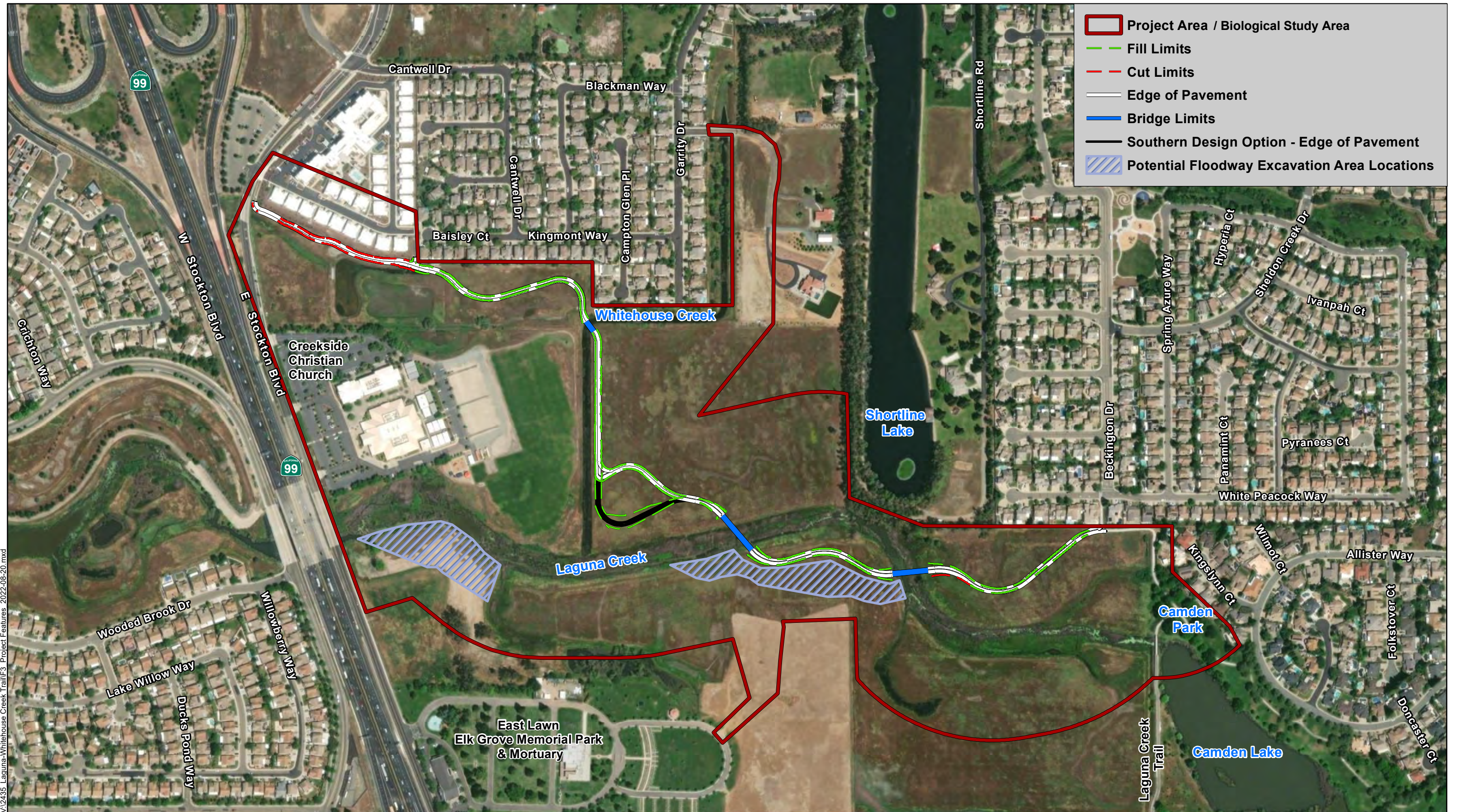
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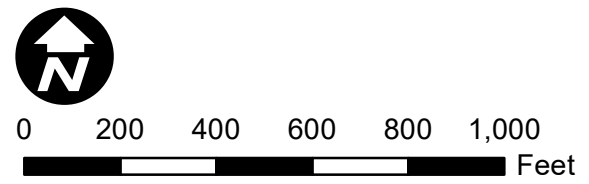


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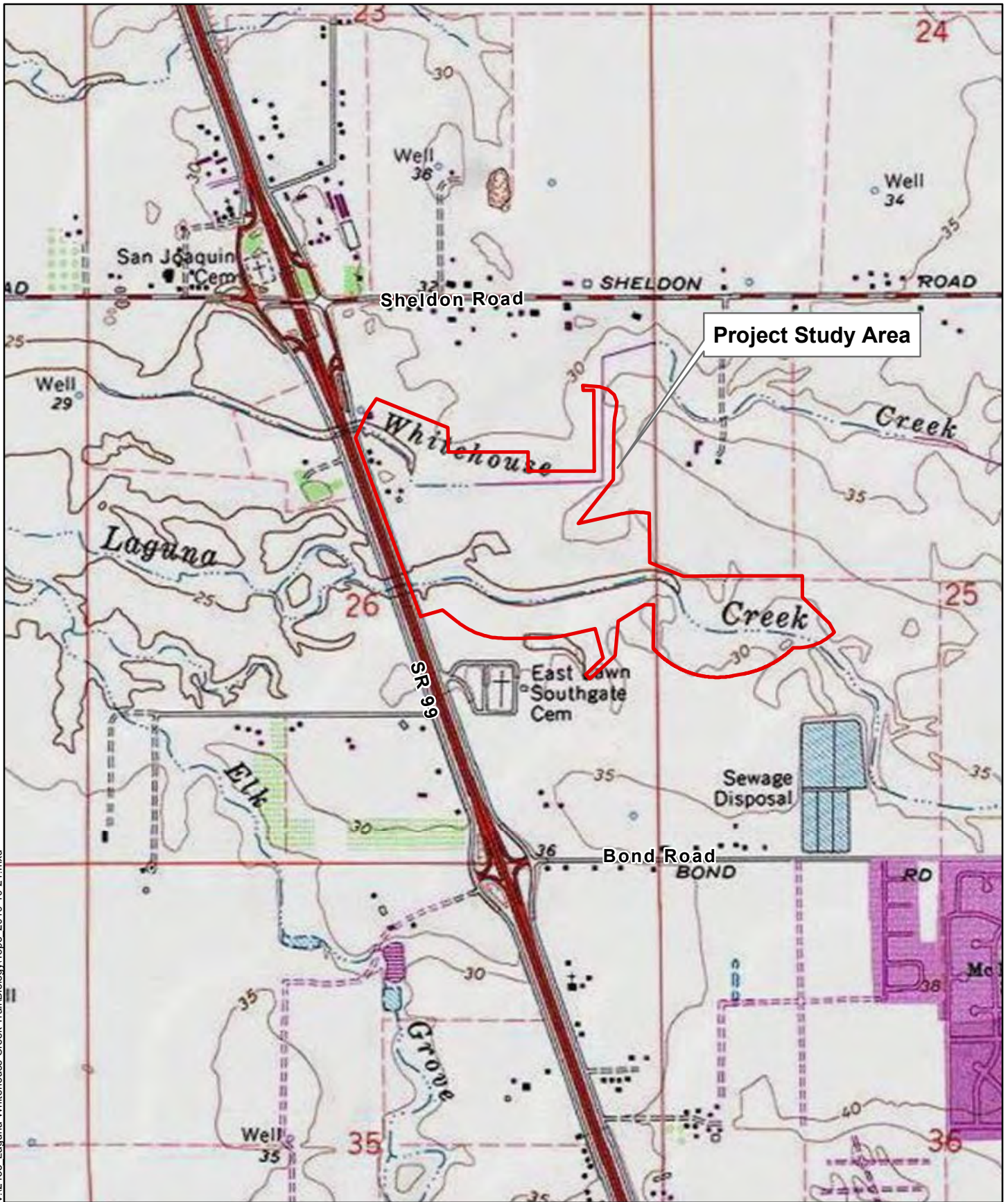
Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, Sacramento County, California



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Project Features
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



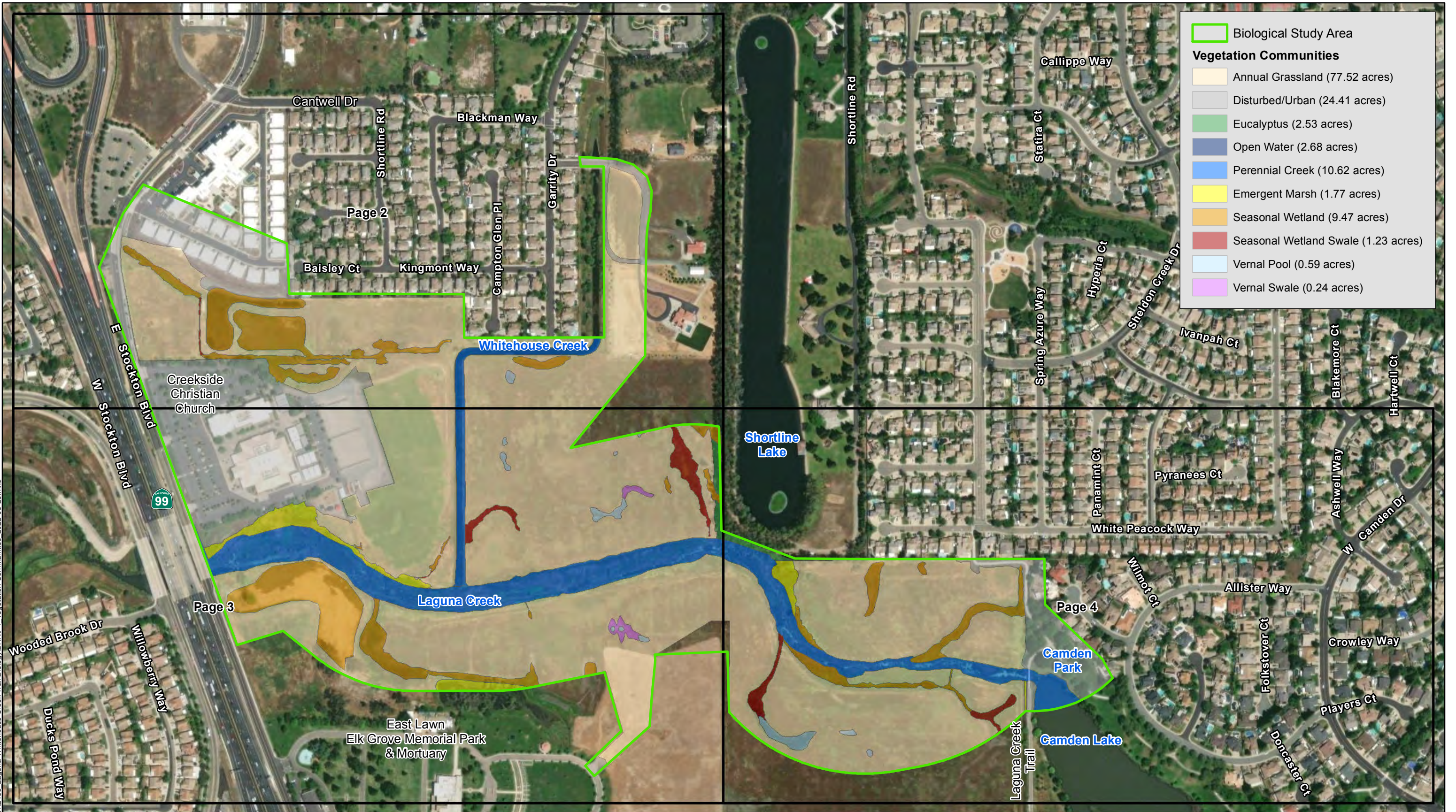
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Source: ESRI Maps Online; Dokken Engineering 10/21/2019; Created By: adellas

Topographic Map

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, Sacramento County, California

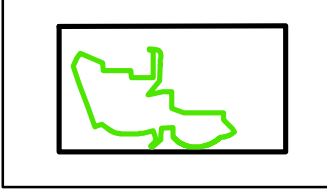
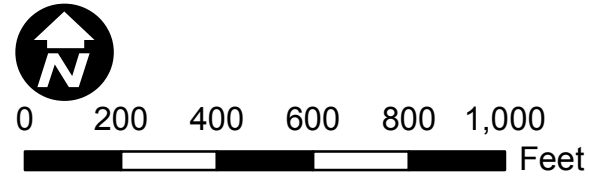


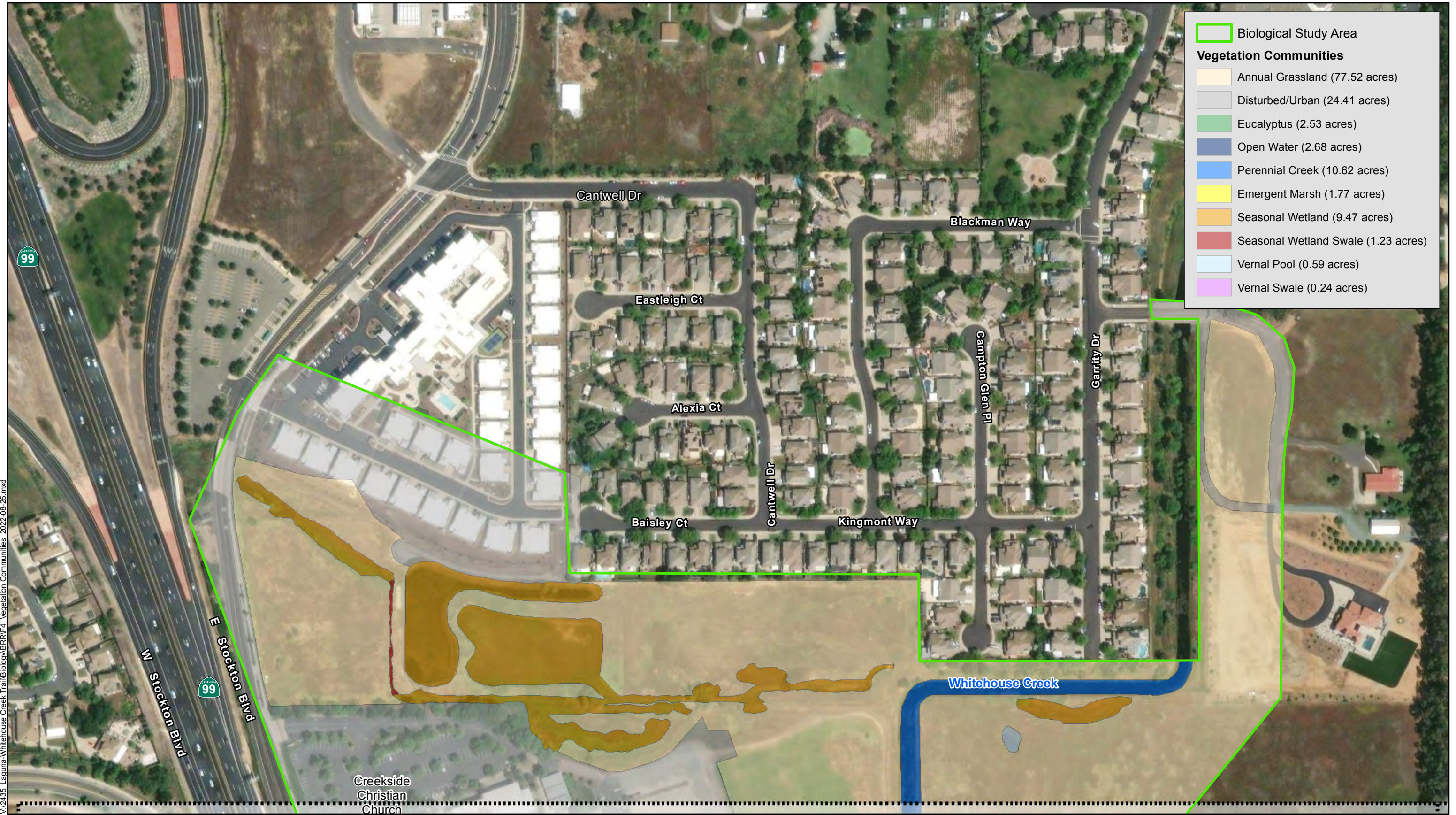


Biological Study Area	
[Green Outline]	Biological Study Area
Vegetation Communities	
[Light Yellow]	Annual Grassland (77.52 acres)
[Light Grey]	Disturbed/Urban (24.41 acres)
[Light Green]	Eucalyptus (2.53 acres)
[Blue-Black]	Open Water (2.68 acres)
[Blue]	Perennial Creek (10.62 acres)
[Yellow]	Emergent Marsh (1.77 acres)
[Orange]	Seasonal Wetland (9.47 acres)
[Red]	Seasonal Wetland Swale (1.23 acres)
[Light Blue]	Vernal Pool (0.59 acres)
[Purple]	Vernal Swale (0.24 acres)

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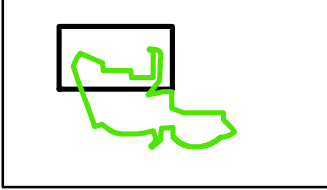
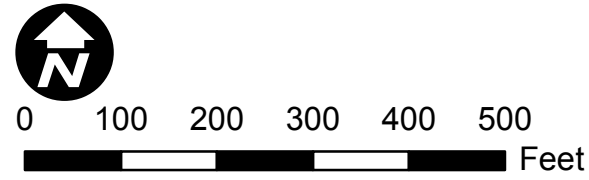
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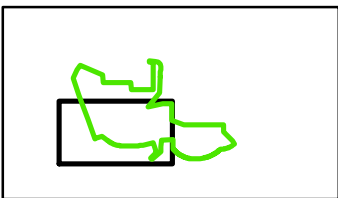
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Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez



Vegetation Communities within the BSA

Page 3 of 4



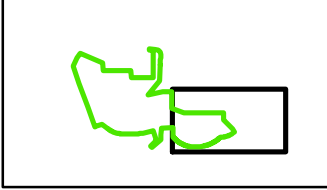
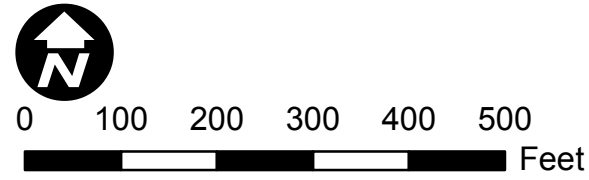
Biological Study Area

Vegetation Communities

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- Disturbed/Urban (24.41 acres)
- Eucalyptus (2.53 acres)
- Open Water (2.68 acres)
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- Vernal Swale (0.24 acres)

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Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez





United States
Department of
Agriculture

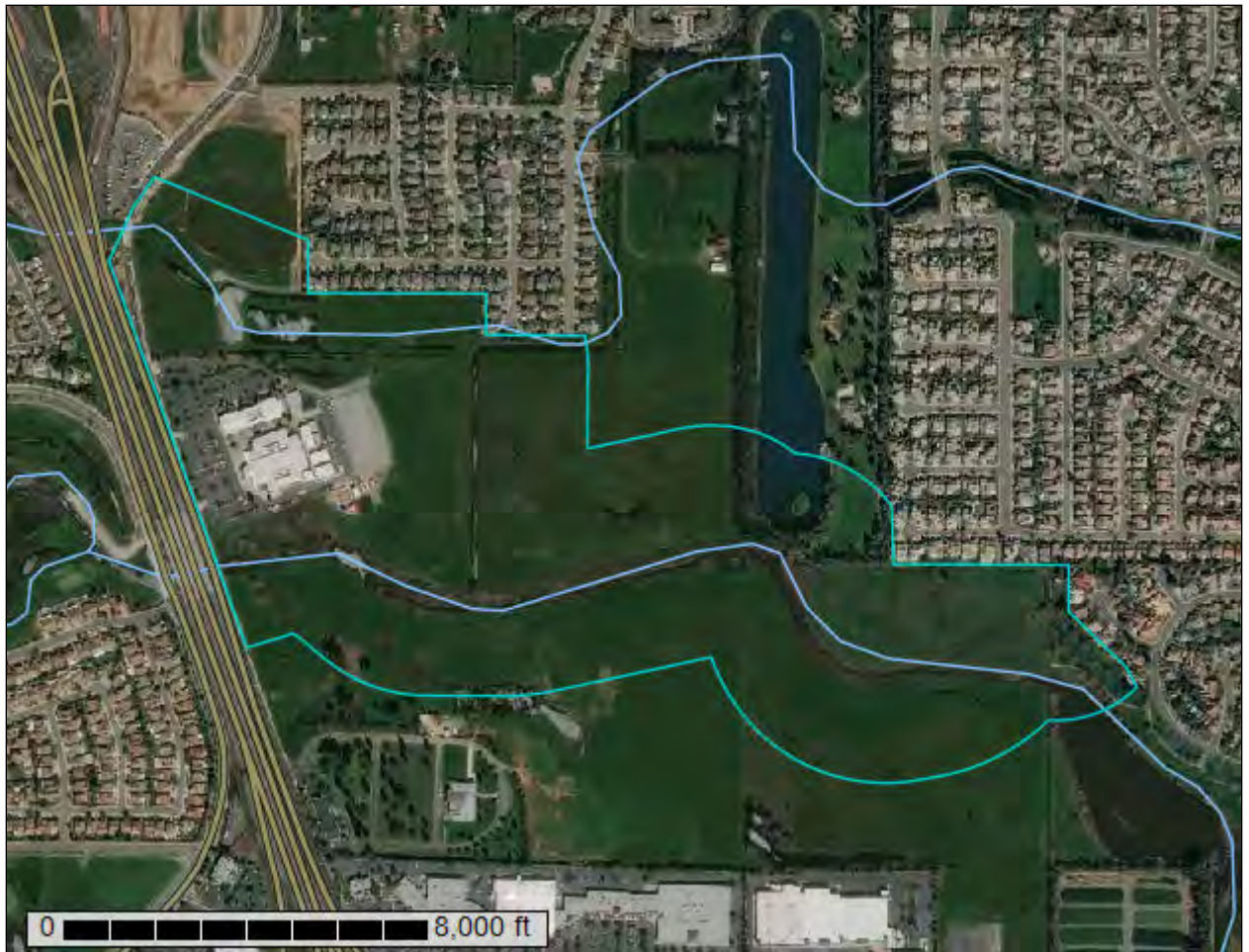
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Sacramento County, California**

WDR018-LCWC



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

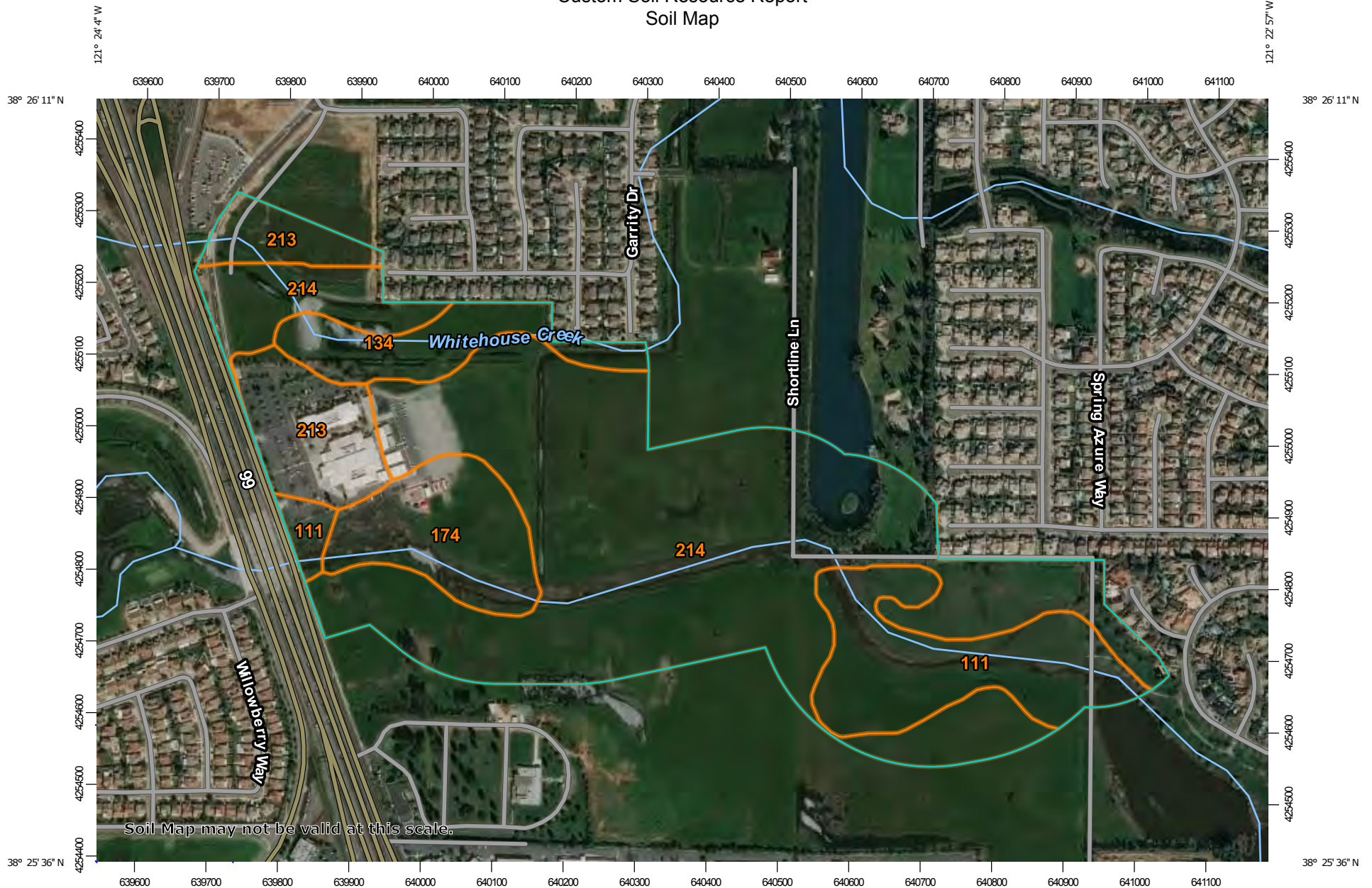
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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

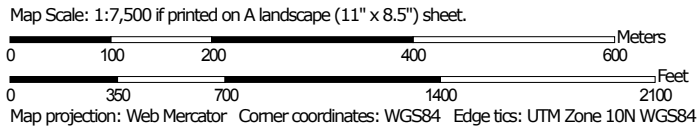
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
 Survey Area Data: Version 16, Sep 26, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 12, 2016—Mar 28, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
111	Bruella sandy loam, 0 to 2 percent slopes	16.9	13.5%
134	Dierssen sandy clay loam, drained, 0 to 2 percent slopes	7.6	6.0%
174	Madera loam, 0 to 2 percent slopes	10.6	8.5%
213	San Joaquin silt loam, leveled, 0 to 1 percent slopes	12.0	9.6%
214	San Joaquin silt loam, 0 to 3 percent slopes	78.0	62.4%
Totals for Area of Interest		125.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

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The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Sacramento County, California

111—Bruella sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhlk
Elevation: 30 to 150 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Bruella and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bruella

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 18 inches: sandy loam
H2 - 18 to 42 inches: sandy clay loam
H3 - 42 to 61 inches: sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Kimball

Percent of map unit: 5 percent
Hydric soil rating: No

San joaquin

Percent of map unit: 5 percent
Hydric soil rating: No

Xerarents

Percent of map unit: 5 percent
Hydric soil rating: No

134—Dierssen sandy clay loam, drained, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhm9
Elevation: 20 feet
Mean annual precipitation: 17 inches
Mean annual air temperature: 61 degrees F
Frost-free period: 250 to 275 days
Farmland classification: Not prime farmland

Map Unit Composition

Dierssen and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dierssen

Setting

Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 14 inches: sandy clay loam
H2 - 14 to 31 inches: clay loam
H3 - 31 to 60 inches: cemented

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 31 to 60 inches to duripan
Natural drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Rare
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

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Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 3w

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: D

Hydric soil rating: Yes

Minor Components

Galt

Percent of map unit: 4 percent

Landform: Basin floors

Hydric soil rating: Yes

Tinnin

Percent of map unit: 3 percent

Hydric soil rating: No

Unnamed, lack clay subsoil

Percent of map unit: 2 percent

Hydric soil rating: No

Unnamed, occasional flooded

Percent of map unit: 2 percent

Hydric soil rating: No

Clear lake

Percent of map unit: 1 percent

Landform: Basin floors

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Hydric soil rating: Yes

Cosumnes

Percent of map unit: 1 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Hydric soil rating: Yes

Egbert

Percent of map unit: 1 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Hydric soil rating: Yes

Scribner

Percent of map unit: 1 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Hydric soil rating: Yes

174—Madera loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhn1
Elevation: 20 to 250 feet
Mean annual precipitation: 14 inches
Mean annual air temperature: 61 degrees F
Frost-free period: 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Madera and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Madera

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 15 inches: loam
H2 - 15 to 29 inches: clay
H3 - 29 to 60 inches: indurated

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: About 15 inches to abrupt textural change; 29 to 60 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D

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Ecological site: LOAMY CLAYPAN (R017XD047CA)

Hydric soil rating: No

Minor Components

Kimball

Percent of map unit: 5 percent

Hydric soil rating: No

Clear lake

Percent of map unit: 4 percent

Landform: Drainageways

Hydric soil rating: Yes

Galt

Percent of map unit: 4 percent

Landform: Terraces

Hydric soil rating: Yes

Unnamed, rarely flooded

Percent of map unit: 2 percent

Hydric soil rating: No

213—San Joaquin silt loam, leveled, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hhpv

Elevation: 20 to 500 feet

Mean annual precipitation: 10 to 22 inches

Mean annual air temperature: 61 to 63 degrees F

Frost-free period: 250 to 300 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam

H2 - 23 to 28 inches: clay loam

H3 - 28 to 54 inches: indurated

Custom Soil Resource Report

H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: About 23 inches to abrupt textural change; 28 to 54 inches to duripan

Natural drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Hydric soil rating: No

Minor Components

Bruella

Percent of map unit: 3 percent

Hydric soil rating: No

Durixeralfs

Percent of map unit: 3 percent

Hydric soil rating: No

Galt

Percent of map unit: 2 percent

Landform: Depressions

Hydric soil rating: Yes

Hedge

Percent of map unit: 2 percent

Hydric soil rating: No

Kimball

Percent of map unit: 2 percent

Hydric soil rating: No

Xerarents

Percent of map unit: 2 percent

Hydric soil rating: No

Unnamed, rarely flooded

Percent of map unit: 1 percent

Hydric soil rating: No

214—San Joaquin silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: hhpw

Elevation: 20 to 500 feet

Mean annual precipitation: 10 to 22 inches

Mean annual air temperature: 61 to 63 degrees F

Frost-free period: 250 to 300 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam

H2 - 23 to 28 inches: clay loam

H3 - 28 to 54 inches: indurated

H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: About 23 inches to abrupt textural change; 28 to 54 inches to duripan

Natural drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Ecological site: LOAMY (R017XD045CA)

Hydric soil rating: No

Minor Components

Galt

Percent of map unit: 4 percent

Landform: Depressions

Hydric soil rating: Yes

Bruella

Percent of map unit: 4 percent

Hydric soil rating: No

Hedge

Percent of map unit: 3 percent

Hydric soil rating: No

Kimball

Percent of map unit: 3 percent

Hydric soil rating: No

Unnamed, rarely flooded

Percent of map unit: 1 percent

Hydric soil rating: No

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

Appendix C – Representative Photographs



**Representative Photograph 1. View of seasonal wetland (SW-14) (Waters of the U.S.).
View is facing southeast.**



**Representative Photograph 2. View of seasonal wetland (SW-14) (Waters of the U.S.).
View is facing east.**



**Representative Photograph 3. View of Seasonal Wetland Swale (SWS-5) (Waters of the U.S.).
View is facing north.**



**Representative Photograph 4. View of Whitehouse Creek (Waters of the U.S.).
View is facing southeast.**



**Representative Photograph 5. View of Vernal Pool (VP-7) (Waters of the U.S.).
View is facing west.**



**Representative Photograph 6. View of Emergent Marsh (EM-1) (Waters of the U.S.).
View is facing northwest.**



**Representative Photograph 7. View of Laguna Creek (Waters of the U.S.).
View is facing east.**



**Representative Photograph 8. View of Laguna Creek (Waters of the U.S.).
View is facing north toward Shortline Lake.**



Representative Photograph 9. View of Seasonal Wetland Swale (SWS-1) in foreground and Vernal Pool (VP-1) in background (both Waters of the U.S.). View is facing south.



Representative Photograph 10. View of Seasonal Wetland (SW-8) (Waters of the U.S.). View is facing southeast.

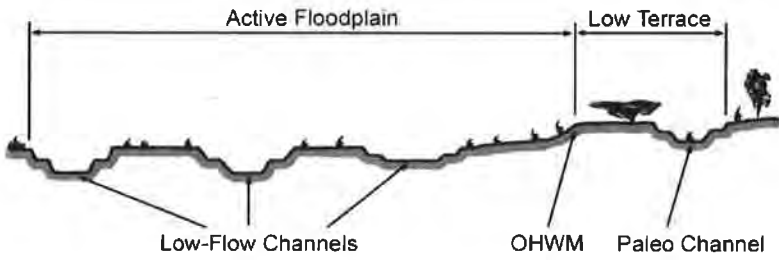
Appendix D – Plant Species Observed

Scientific Name	Common Name	Native (N) /Nonative (x)
<i>Brassica nigra</i>	black mustard	X (Invasive) m
<i>Dichelostemma capitatum</i>	blue dicks	N
<i>Typha latifolia</i>	broadleaf cattail	N
<i>Cirsium vulgare</i>	bullthistle	X (invasive) m
<i>Bromus carinatus</i>	California brome	N
<i>Schoenoplectus californicus</i>	California bulrush	N
<i>Marah fabacea</i>	California manroot	N
<i>Eschscholzia californica</i>	California poppy	N
<i>Rosa californica</i>	California Wild Rose	N
<i>Pinus canariensis</i>	Canary Island pine	X
<i>Trifolium monanthum</i>	carpet clover	N
<i>Pistacia chinensis</i>	Chinese pistache	X
<i>Ligustrum sinense</i>	Chinese privet	X
<i>Triadica sebifera</i>	Chinese Tallow	X (invasive) m
<i>Sequoia sempervirens</i>	coast redwood	N
<i>Amsinckia intermedia</i>	common fiddleneck	N
<i>Sonchus oleraceus</i>	common Sow-thistle	X
<i>Eleocharis palustris</i>	common Spike-rush	N
<i>Erodium cicutarium</i>	common stork's-bill	X (Invasive) l
<i>Centromadia pungens</i>	common tarweed	N
<i>Baccharis pilularis</i>	coyote brush	N
<i>Eryngium castrense</i>	coyote-thistle	N
<i>Rumex crispus</i>	curled dock	X (Invasive) l
<i>Geranium dissectum</i>	cut-leaved crane's-bill	X (Invasive) l
<i>Plantago lanceolata</i>	english plantain	X (invasive) l
<i>Carex praegracilis</i>	field sedge	N
<i>Pennisetum setaceum</i>	fountain grass	X (invasive) m
<i>Hordeum murinum</i>	foxtail Barley	X (invasive) m
<i>Populus fremontii</i>	Fremont cottonwood	N
<i>Lavandula stoechas</i>	French lavender	X
<i>Salix gooddingii</i>	Goodding's willow	N
<i>Leontodon saxatilis</i>	hairy hawkbit	X
<i>Vicia villosa ssp. villosa</i>	hairy vetch	X
<i>Brodiaea elegans</i>	harvest brodiaea	N
<i>Rubus armeniacus</i>	Himalayan Blackberry	X (invasive) h
<i>Quercus wislizeni</i>	interior live oak	N
<i>Lolium multiflorum</i>	Italian Ryegrass	X (invasive) m
<i>Carduus pycnocephalus</i>	Italian thistle	X (invasive) m
<i>Raphanus sativus</i>	jointed charlock	X (Invasive) l
<i>Briza minor</i>	little quaking-grass	X

Scientific Name	Common Name	Native (N) /Nonative (x)
<i>Platanus Æ— hispanica</i>	London plane tree	X
<i>Lupinus</i>	lupine sp.	N
<i>Hordeum marinum gussoneanum</i>	mediterranean barley	X (invasive) m
<i>Taeniatherum caput-medusae</i>	medusa head	X (invasive) h
<i>washingtonia robusta</i>	Mexican Fan Palm	X (invasive) m
<i>Silybum marianum</i>	milk thistle	X (invasive) l
<i>Asclepias fascicularis</i>	narrow leaf milkweed	N
<i>Salix exigua</i>	narrowleaf willow	N
<i>Toxicodendron diversilobum</i>	Pacific poison oak	N
<i>Mentha pulegium</i>	pennyroyal	X (invasive) m
<i>Castilleja exserta exserta</i>	purple owl's-clover	N
<i>Bromus diandrus</i>	ripgut brome	X (invasive) m
<i>Trifolium hirtum</i>	Rose Clover	X (invasive) l
<i>Xanthium strumarium</i>	rough cocklebur	N
<i>Quercus coccinea</i>	scarlet oak	X
<i>Vulpia microstachys</i>	small six-weeks grass	N
<i>Bromus hordeaceus</i>	soft chess brome	X (invasive) l
<i>Juncus patens</i>	spreading Rush	N
<i>Carex alma</i>	sturdy sedge	N
<i>Foeniculum vulgare</i>	sweet fennel	X (invasive) h
<i>Cyperus eragrostis</i>	tall flatsedge	N
<i>Eucalyptus globulus</i>	Tasmanian blue gum	X (invasive) l
<i>Salsola tragus</i>	tumbleweed	X (invasive) l
<i>Quercus lobata</i>	valley oak	N
<i>Ranunculus bonariensis trisepalus</i>	vernal pool buttercup	
<i>Galium parisiense</i>	wall bedstraw	X
<i>Nasturtium officinale</i>	watercress	N
<i>Cercis occidentalis</i>	Western redbud	N
<i>Erodium brachycarpum</i>	White stemmed filaree	X
<i>Pisum sativum elatius</i>	wild pea	X
<i>Avena fatua</i>	wildoats	X (invasive) m
<i>Centaurea solstitialis</i>	yellow starthistle	X (invasive) h

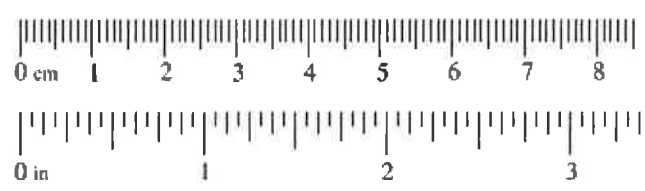
Appendix E – Delineation Data Sheets

Arid West Ephemeral and Intermittent Streams OHW M Datasheet

Project: <i>Laguna Creek/Whitehouse Creek Corridor</i> Project Number: <i>W0R010-L0W0 City of Elk Grove</i> Stream: <i>Whitehouse Creek</i> Investigator(s): <i>Andrew Dello, Courtney Owens</i>	Date: <i>4/24/18</i> Town: <i>Elk Grove</i> Photo begin file#:	Time: <i>09:45</i> State: <i>CA</i> Photo end file#:
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	Location Details: <i>Whitehouse Creek ≈ 0.25 miles East of E. Stockton Blvd.</i> Projection: _____ Datum: _____ Coordinates: _____	
Potential anthropogenic influences on the channel system: <i>Channelized creek - between 1998 and 2002, natural bottomed, to move around residential development. Potential fill material used for channelization and adjacent Creekside Church.</i>		
Brief site description: <i>Non-natural alignment of Whitehouse Creek.</i>		
Checklist of resources (if available): <input checked="" type="checkbox"/> Aerial photography Dates: <i>4/2018</i> <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input type="checkbox"/> Vegetation maps <input type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies <input type="checkbox"/> Stream gage data Gage number: _____ Period of record: _____ <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
Hydrogeomorphic Floodplain Units 		
Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM: 1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site. 2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units. 3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit. c) Identify any indicators present at the location. 4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section. 5. Identify the OHWM and record the indicators. Record the OHWM position via: <input checked="" type="checkbox"/> Mapping on aerial photograph <input checked="" type="checkbox"/> GPS <input checked="" type="checkbox"/> Digitized on computer <input type="checkbox"/> Other: _____		

Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay



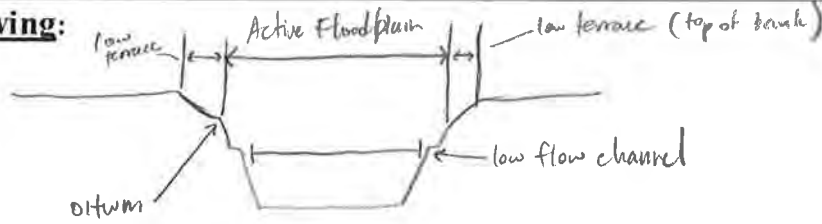
Project ID:

Cross section ID:

Date:

Time:

Cross section drawing:



OHWM

GPS point: OHWM 2A

Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Change in average sediment texture | <input checked="" type="checkbox"/> Break in bank slope |
| <input type="checkbox"/> Change in vegetation species | <input checked="" type="checkbox"/> Other: <u>Soil cracks</u> |
| <input checked="" type="checkbox"/> Change in vegetation cover | <input type="checkbox"/> Other: _____ |

Comments:

Soil cracks indicate extent of water along bank, vegetation cover change to ~0% at OHWM then returning to grasses & forbs above break.

Floodplain unit: Low-Flow Channel Active Floodplain Low Terrace

GPS point: Unable to take point in flowing channel.

Characteristics of the floodplain unit:

Average sediment texture: silty clay loam

Total veg cover: 1-2 % Tree: 1 % Shrub: 1 % Herb: 1-2 %

Community successional stage:

- | | |
|---|--|
| <input checked="" type="checkbox"/> NA | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings) |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Mudcracks | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples | <input type="checkbox"/> Surface relief |
| <input type="checkbox"/> Drift and/or debris | <input type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> Benches | <input type="checkbox"/> Other: _____ |

Comments:

Active flows within low-flow channel, low flow bank + bench visible with change in vegetation cover.

Project ID:

Cross section ID:

Date:

Time:

Floodplain unit: Low-Flow Channel Active Floodplain Low Terrace

GPS point: OHWM 2A

Characteristics of the floodplain unit:

Average sediment texture: silty clay loam

Total veg cover: 0-1 % Tree: / % Shrub: / % Herb: 0-1 %

Community successional stage:

- NA
- Early (herbaceous & seedlings)
- Mid (herbaceous, shrubs, saplings)
- Late (herbaceous, shrubs, mature trees)

Indicators:

- Mudcracks
- Ripples
- Drift and/or debris
- Presence of bed and bank
- Benches
- Soil development
- Surface relief
- Other: _____
- Other: _____
- Other: _____

Comments:

Mudcracks visible at break of vegetation cover and minor benches, merging up toward low terrace.

Floodplain unit: Low-Flow Channel Active Floodplain Low Terrace

GPS point: OHWM 2B

Characteristics of the floodplain unit:

Average sediment texture: silty clay loam

Total veg cover: 90 % Tree: / % Shrub: / % Herb: 90 %

Community successional stage:

- NA
- Early (herbaceous & seedlings)
- Mid (herbaceous, shrubs, saplings)
- Late (herbaceous, shrubs, mature trees)

Indicators:

- Mudcracks
- Ripples
- Drift and/or debris
- Presence of bed and bank
- Benches
- Soil development
- Surface relief
- Other: vegetation cover change
- Other: _____
- Other: _____

Comments:

Change in vegetation after break in bank at mudcracks. Vegetation change to ~ 90% grasses & forbs.

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: <i>Laguna Creek/Whittaker Creek Corridor</i> Project Number: <i>WDR018 - UWE City of Elk Grove</i> Stream: <i>Laguna Creek</i> Investigator(s): <i>Andrew Dallas, Courtney Owens</i>	Date: <i>4/24/18</i> Town: <i>Elk Grove</i> Photo begin file#:	Time: <i>09:30</i> State: <i>CA</i> Photo end file#:
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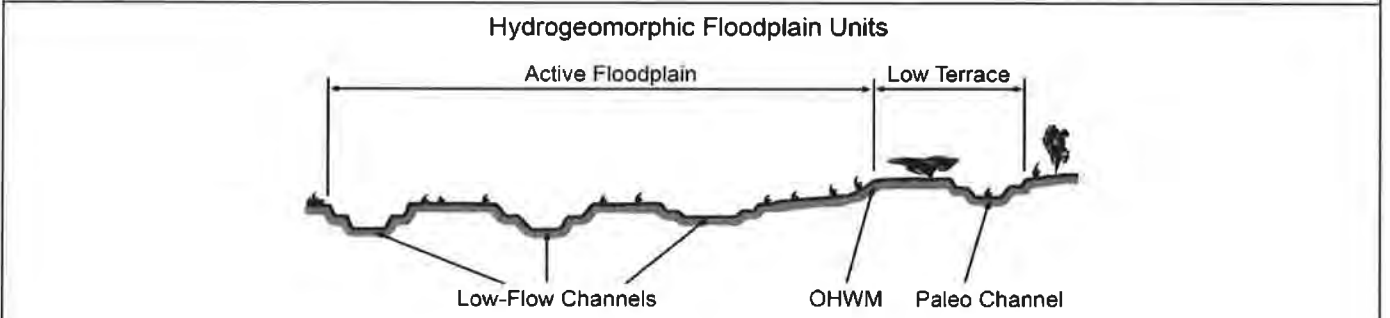
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	Location Details: <i>Laguna Creek approximately 0.25 East of ^{E. side from} Blvd.</i> Projection: Datum: Coordinates:
--	---

Potential anthropogenic influences on the channel system:
Fill used adjacent to Creechside Church.

Brief site description:
Natural alignment of Laguna Creek.

Checklist of resources (if available):

<input checked="" type="checkbox"/> Aerial photography Dates: <i>4/2018</i> <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input type="checkbox"/> Vegetation maps <input type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event
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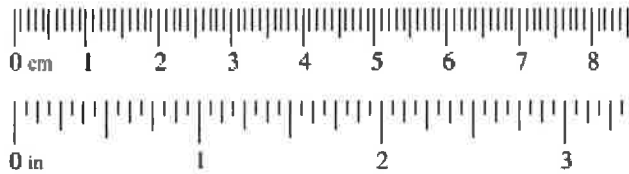


- Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**
1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
 2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
 3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
 - a) Record the floodplain unit and GPS position.
 - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
 - c) Identify any indicators present at the location.
 4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
 5. Identify the OHWM and record the indicators. Record the OHWM position via:

<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS
<input checked="" type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:

Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay



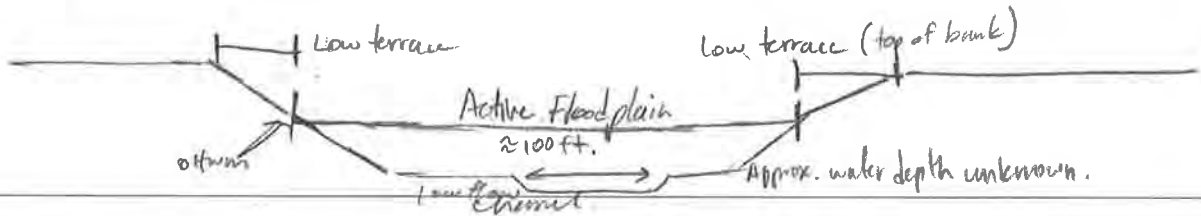
Project ID: LCWC

Cross section ID: Laguna Creek

Date: 4/26/18

Time: 09:30

Cross section drawing:



OHWM

GPS point: Ottum 1A

Indicators:

- | | |
|--|--|
| <input type="checkbox"/> Change in average sediment texture | <input type="checkbox"/> Break in bank slope |
| <input checked="" type="checkbox"/> Change in vegetation species | <input type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> Change in vegetation cover | <input type="checkbox"/> Other: _____ |

Comments:

Single-thread channel with adjacent floodplains. Hydrophytic Ottum indicators with change in minor slope from marsh species (*Juncus* sp / *Typha* sp) to Annual grass/herbs. Heavy drift deposits at Ottum.

Floodplain unit: Low-Flow Channel Active Floodplain Low Terrace

GPS point: Unable to take point within flowing channel

Characteristics of the floodplain unit:

Average sediment texture: Silt loam
 Total veg cover: 10 % Tree: _____ % Shrub: _____ % Herb: 10 %
 Community successional stage:

- | | |
|---|--|
| <input checked="" type="checkbox"/> NA | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings) |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

Indicators:

- | | |
|---|---|
| <input type="checkbox"/> Mudcracks | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples | <input type="checkbox"/> Surface relief |
| <input checked="" type="checkbox"/> Drift and/or debris | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Benches | <input type="checkbox"/> Other: _____ |

Comments:

Active water flows up to low terrace transition areas. Saturated soils with *Juncus*/*Typha*. Depth unknown.

Project ID:

Cross section ID:

Date:

Time:

Floodplain unit:

Low-Flow Channel

Active Floodplain

Low Terrace

GPS point: 0HWM 1A

Characteristics of the floodplain unit:

Average sediment texture: silt loam

Total veg cover: 90 % Tree: % Shrub: % Herb: 90 %

Community successional stage:

NA

Mid (herbaceous, ~~shrubs, saplings~~)

Early (herbaceous & seedlings)

Late (herbaceous, shrubs, mature trees)

Indicators:

Mudcracks

Soil development

Ripples

Surface relief

Drift and/or debris

Other: _____

Presence of bed and bank

Other: _____

Benches

Other: _____

Comments:

Transition area eelgrass, grasses, juncus, rumex, etc. 0-1% slope.

Floodplain unit:

Low-Flow Channel

Active Floodplain

Low Terrace

GPS point: 0HWM 1B

Characteristics of the floodplain unit:

Average sediment texture: silt loam

Total veg cover: 100 % Tree: % Shrub: % Herb: 100 %

Community successional stage:

NA

Mid (herbaceous, ~~shrubs, saplings~~)

Early (herbaceous & seedlings)

Late (herbaceous, shrubs, mature trees)

Indicators:

Mudcracks

Soil development

Ripples

Surface relief

Drift and/or debris

Other: _____

Presence of bed and bank

Other: _____

Benches

Other: _____

Comments:

Drift deposits mark edge of terrace.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove, Sacramento Sampling Date: 4/24/10
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 1A
 Investigator(s): Andew Dallas, Courtney Davis Section, Township, Range: S26 T4N R5E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1-2
 Subregion (LRR): C Lat: 36°25'59.67"N Long: 121°23'52.83"W Datum: GPS
 Soil Map Unit Name: Dyerssen sandy clay loam, drained, 0-2% slopes NWI classification: PEM1C2
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Quercus lobata</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/1 = 100%</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15</u>)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators:
1. <u>Rumex crispus</u>	<u>3</u>		<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Eleocharis palustris</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Geranium dissectum</u>	<u>1</u>		<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Lolium perenne</u>	<u>1</u>		<u>FAC</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>15</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>15</u>)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>85</u>	% Cover of Biotic Crust _____			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks: Longitudinal depression along North of Creekside Church parcel.

SOIL

Sampling Point: 1a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 2/1	100						leaf litter / duff
4-8	10YR 2/2	100					SIL	
8-16	2.5Y 4/1	85	7.5YR 4/6	15			SCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

Secondary Indicators (2 or more required)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)
- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): 10"
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove, Sacramento Sampling Date: 4/29/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 1b
 Investigator(s): Adellias / C. Owens Section, Township, Range: S26 T9N R5E
 Landform (hillslope, terrace, etc.): Edge of depression Local relief (concave, convex, none): convex Slope (%): 1-2
 Subregion (LRR): C Lat: 36°25'59.83"N Long: -121°23'52.72"W Datum: GPS
 Soil Map Unit Name: Dierseen sandy clay loam, hard, 0-2% slopes NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
1. _____	<u>0</u>			Total Number of Dominant Species Across All Strata: <u>1</u> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/1=100</u> (A/B)
3. _____				
4. _____				
				Prevalence Index worksheet:
<u>Sapling/Shrub Stratum</u>				Total % Cover of: _____ Multiply by: _____
1. _____	<u>0</u>			OBL species _____ x 1 = _____
2. _____				FACW species _____ x 2 = _____
3. _____				FAC species _____ x 3 = _____
4. _____				FACU species _____ x 4 = _____
5. _____				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
<u>Herb Stratum</u>				Prevalence Index = B/A = _____
1. <u>Lolium perenne</u>	<u>98</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Hydrophytic Vegetation Indicators:
2. <u>Hordium marinum</u>	<u>71</u>		<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
3. <u>Geranium dissectum</u>	<u>71</u>		<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
4. <u>Rumex crispus</u>	<u>71</u>		<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____				
7. _____				
8. _____				
	<u>100</u>			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Woody Vine Stratum</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____				
2. _____				
% Bare Ground in Herb Stratum <u>0</u>		% Cover of Biotic Crust _____		
Remarks:				

SOIL

Sampling Point: 1b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/2	100					STCL	
2-6	10YR 3/2	80	7.5YR 4/6	20	C	M	STCL	
6-16	10YR 4/2	60	7.5YR 4/4	35	C	M	STC	
			6Y 2.5/N	5	C	M		Manganese

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Low terrace between detention pond & depression.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove, Sacramento Sampling Date: 4/29/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 1C
 Investigator(s): A. Dallas / C. Owens Section, Township, Range: S26 T4N R5E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 1-2
 Subregion (LRR): C Lat: 38°25'59.76" N Long: -121°23'53.08" W Datum: GPS
 Soil Map Unit Name: Dierksen sandy clay loam, limited, 0-2% slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	0			Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____				
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	0			Total % Cover of: _____ Multiply by: _____
2. _____				OBL species <u>0</u> x 1 = _____
3. _____				FACW species <u>0</u> x 2 = _____
4. _____				FAC species <u>2</u> x 3 = <u>6</u>
5. _____				FACU species <u>0</u> x 4 = _____
0 = Total Cover				UPL species <u>2</u> x 5 = <u>10</u>
				Column Totals: <u>4</u> (A) <u>20</u> (B)
				Prevalence Index = B/A = <u>20/4=5</u>
Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bromus hordeaceus</u>	40	<input checked="" type="checkbox"/>	FAC	<input type="checkbox"/> Dominance Test is >50%
2. <u>Bromus diandrus</u>	40	<input checked="" type="checkbox"/>	UPL	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Lolium perenne</u>	8		FAC	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Erodium cicutarium</u>	3		UPL	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
90 = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				
Remarks:				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

SOIL

Sampling Point: 1C

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 3/2	85	10YR 3/4	10			SIL	
			6YR 5/1N	5				Manganese

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> 2 cm Muck (A10) (LRR B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) | <input type="checkbox"/> Reduced Vertic (F18) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
hardpan 15"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? Yes No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove, Solano Sampling Date: 04/24/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 22
 Investigator(s): A. Torres / C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): low depression Local relief (concave, convex, none): concave Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'59.84" N Long: -121°23'42.92" W Datum: GPS
 Soil Map Unit Name: Dierksen sandy clay loam, drained, 0-2% slopes NWI classification: PEWIC 7
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>5 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Hordeum marinum</u>	<u>>1</u>		<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Lolium perenne</u>	<u>2</u>		<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Rumex crispus</u>	<u>>1</u>		<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Ranunculus bonariensis</u>			<u>OBL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Rag. trisepalus</u>	<u>>1</u>			
6. <u>Eleocharis macrostachya</u>	<u>57</u>	<input checked="" type="checkbox"/>	<u>DBL</u>	
7. _____				
8. _____				
<u>60</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>40</u>		% Cover of Biotic Crust _____		
Remarks:				

SOIL

Sampling Point: ZA

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 2/2	100					SIL	
2-9	10YR 3/1	85	5YR 3/4	15	C	M	SICL	
9-16	5YR 4/6	85	10YR 4/1	10	D	PL	SC	
			GY 2.5/N	5	C	M		magnesian

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

Indicators for Problematic Hydric Soils³:

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____

Water Table Present? Yes No Depth (inches): _____

Saturation Present? Yes No Depth (inches): 110

(includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek Corridor Project City/County: Elk Grove Sampling Date: 4/24/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 2B
 Investigator(s): A. Dallas & C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'59.65" N Long: -121°23'42.71" W Datum: GPS
 Soil Map Unit Name: Dierksen sandy clay loam, drained, 0-2% slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: _____)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
1. _____				Total Number of Dominant Species Across All Strata: <u>0</u> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
3. _____				
4. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
<u>Herb Stratum</u> (Plot size: <u>5 ft.</u>)				Column Totals: _____ (A) _____ (B)
1. <u>Bromus hordeaceus</u>	<u>75</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	Prevalence Index = B/A = _____
2. <u>Lolium perenne</u>	<u>24</u>		<u>FAC</u>	
3. <u>Erodium cicutarium</u>	<u>>1</u>		<u>LPL</u>	
4. <u>Elymus caput-medusae</u>	<u>>1</u>		<u>LPL</u>	
5. _____				
6. _____				
7. _____				
8. _____				
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. _____				<input type="checkbox"/> Dominance Test is >50%
2. _____				<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
_____ = Total Cover				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
_____ = Total Cover				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
% Bare Ground in Herb Stratum <u>0</u>	% Cover of Biotic Crust _____			Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks:

SOIL

Sampling Point: 2B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1-3	10YR 3/3	100					SIL	
3-6	10YR 2/3	60	7.5YR 4/4	20	C	m	L	
			6Y 2.5/N	20	C	m		
6-16	7.5YR 3/4	80	7.5YR 4/4	20	C	m	SECL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____
 Water Table Present? Yes _____ No Depth (inches): _____
 Saturation Present? Yes _____ No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove Sampling Date: 04/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 33
 Investigator(s): A. Dallas + C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): embankment Local relief (concave, convex, none): convex Slope (%): 0-3
 Subregion (LRR): C Lat: 38°25'51.92"N Long: -121°23'46.62"W Datum: GPS
 Soil Map Unit Name: Madera loam, 0 to 2 percent slopes NWI classification: PFMC 1
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: _____)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
1. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
3. _____				
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators:
1. <u>Tyrnus erianthus</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Pogogyne zizyphoroides</u>	<u>10</u>		<u>OBL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Rumex crispus</u>	<u>5</u>		<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Epilobium brachycarpum</u>	<u>10</u>		<u>UPL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>40</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>100</u>		% Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:				

SOIL

Sampling Point: 3A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 2/1	100					SI CL	
4-7	10YR 2/2	95	7.5YR 3/4	5	C	M	SI CL	
7-16	2.5Y 3/1	75	7.5YR 3/4	25	C	M	CL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input checked="" type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input checked="" type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove Sampling Date: 04/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 3b
 Investigator(s): A. Dallas + C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): embankment Local relief (concave, convex, none): convex Slope (%): 0-3
 Subregion (LRR): C Lat: 38°25'52.04"N Long: -121°23'46.47"W Datum: GPS
 Soil Map Unit Name: Madera loam, 0 to 2% slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
				_____ = Total Cover
Herb Stratum (Plot size: <u>5</u>)				
1. <u>Bromus hordeaceus</u>	<u>15</u>		<u>FAC</u>	
2. <u>Bromus spp</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	
3. <u>Cardus pycnocephalus</u>	<u>10</u>		<u>UPL</u>	
4. <u>Rumex crispus</u>	<u>71</u>		<u>FAC</u>	
5. <u>Erodium cicutarium</u>	<u>10</u>		<u>UPL</u>	
6. <u>Silphium maritimum</u>	<u>21</u>		<u>UPL</u>	
7. <u>Jurcus mexicanus</u>	<u>5</u>		<u>FACW</u>	
8. <u>Epilobium brachycarpum</u>	<u>2</u>		<u>UPL</u>	
				<u>100</u> = Total Cover
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
				_____ = Total Cover
% Bare Ground in Herb Stratum <u>0</u>	% Cover of Biotic Crust _____			
Remarks:				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0¹

___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

SOIL

Sampling Point: 3B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	SYR 3/4	100					SCL	Appears to be fill material

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5) (LRR C)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR D)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p>	<p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Vernal Pools (F9)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR C)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR B)</p> <p><input type="checkbox"/> Reduced Vertic (F18)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks: Disturbed, fill material, terrace above marsh. Adjacent to church playground.

HYDROLOGY

Wetland Hydrology Indicators:	
<p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1) (Nonriverine)</p> <p><input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)</p> <p><input type="checkbox"/> Drift Deposits (B3) (Nonriverine)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Biotic Crust (B12)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____

Water Table Present? Yes _____ No Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No Depth (inches): _____

Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove Sampling Date: 04/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 42
 Investigator(s): A. DeNas + C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): terrace depression Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C Lat: 38°25'40.55" N Long: -121°23'40.55" W Datum: GPS
 Soil Map Unit Name: Madera loam, 0-2% slopes NWI classification: NIA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: _____)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
1. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
3. _____				
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
Herb Stratum (Plot size: <u>5</u>)				Column Totals: _____ (A) _____ (B)
1. <u>Rumex crispus</u>	<u>2</u>		<u>FAC</u>	Prevalence Index = B/A = _____
2. <u>Persicaria hydropiperoides</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
3. <u>Poa annua</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
4. <u>Lolium perenne</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
5. <u>Eleocharis macrotachya</u>	<u>10</u>		<u>OBL</u>	
6. <u>Ranunculus banariensis</u>	<u>>1</u>		<u>OBL</u>	
7. <u>Plagiobothrys stipitatus</u>	<u>10</u>		<u>FACW</u>	
8. <u>Hordeum marinum</u>	<u>3</u>		<u>FAC</u>	
<u>90</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. _____				<input checked="" type="checkbox"/> Dominance Test is >50%
2. _____				<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
_____ = Total Cover				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
_____ = Total Cover				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:				

SOIL

Sampling Point: 4A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100					SL	
1-16	10YR 3/2	100	7.5YR 4/6	38	C	m	C	
			6Y 2.5/N	2	C	m		manganese

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove Sampling Date: 4/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 4b
 Investigator(s): A. Dallas & C. Owens Section, Township, Range: S 26 T 7N R 5E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'50.27" N Long: -121°22'40.38" W Datum: GPS
 Soil Map Unit Name: Madera loam, 0-2% slopes NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
_____ = Total Cover				Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____	x 1 = _____
1. _____	_____	_____	_____	FACW species _____	x 2 = _____
2. _____	_____	_____	_____	FAC species _____	x 3 = _____
3. _____	_____	_____	_____	FACU species _____	x 4 = _____
4. _____	_____	_____	_____	UPL species _____	x 5 = _____
5. _____	_____	_____	_____	Column Totals:	(A) _____ (B) _____
_____ = Total Cover				Prevalence Index = B/A = _____	
Herb Stratum (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Lolium perenne</u>	<u>75</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. <u>Hordium murinum</u>	<u>5</u>		<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
3. <u>Bromus hordeaceus</u>	<u>15</u>		<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Vicia villosa</u>	<u>72.5</u>		<u>UPL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. <u>Erodium botrys</u>	<u>72.5</u>		<u>UPL</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?	
1. _____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2. _____	_____	_____	_____		
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>0</u>		% Cover of Biotic Crust _____			
Remarks:					

SOIL

Sampling Point: 4B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/4	100					SL	
2-6	10YR 3/3	95	5YR 3/4	5	C	m	L	
6-16	10YR 3/2	95	5YR 3/4	5	C	m	CL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove Sampling Date: 4/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 50
 Investigator(s): A. Bellas + C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): CONCAVE Slope (%): 0-2
 Subregion (LRR): C Lat: 38°25'47.00"N Long: -121°23'12.23"W Datum: GPS
 Soil Map Unit Name: Druella sandy loam, drained, 0-2% slopes NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: _____)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
1. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
3. _____				
4. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
<u>Herb Stratum</u> (Plot size: <u>5</u>)				Column Totals: _____ (A) _____ (B)
1. <u>Plagiobothrys stipitalis</u>	<u>10</u>		<u>FACW</u>	Prevalence Index = B/A = _____
2. <u>Ranunculus borealis</u>	<u>50</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	Hydrophytic Vegetation Indicators:
3. <u>Poa sp.</u>	<u>10</u>		<u>OBL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
4. <u>Phalaris spp</u>	<u>10</u>		<u>OPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
5. <u>Eleocharis macrostachya</u>	<u>5</u>		<u>OBL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6. <u>Cat-tail spp.</u>	<u>5</u>			<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
7. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. _____				
_____ = Total Cover	<u>90</u>			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u>		% Cover of Biotic Crust _____		
Remarks:				

SOIL

Sampling Point: SA

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 2/2	100					SFL	
5-10	7.5YR 3/1	85	5YR 3/4	15	C	M	CL	
10-16	10YR 2/1	99	5YR 3/4	1	C	M	SFC	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove Sampling Date: 4/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 50
 Investigator(s): A. Dallas & C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): CONVEX Slope (%): 0-2
 Subregion (LRR): C Lat: 38°25'46.61" N Long: -121°23'12.22" W Datum: GPS
 Soil Map Unit Name: Brussels sandy loam, drained, 0-2% slopes NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/3 = 33%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = _____ FACW species <u>0</u> x 2 = _____ FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>0</u> x 4 = _____ UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>6</u> (A) <u>24</u> (B) Prevalence Index = B/A = <u>24/6 = 4</u>
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5. _____	_____	_____	_____	
_____ = Total Cover				Remarks:
Herb Stratum (Plot size: _____)				
1. <u>Epilobium brachycarpum</u>	<u>22</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	
2. <u>Rumex crispus</u>	<u>3</u>	<input type="checkbox"/>	<u>FAC</u>	
3. <u>Bromus hordeaceus</u>	<u>15</u>	<input type="checkbox"/>	<u>FAC</u>	
4. <u>Erodium malacoides</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	
5. <u>Bromus cernatus</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	
6. <u>Lolium perenne</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>95</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>5</u>		% Cover of Biotic Crust _____		

SOIL

Sampling Point: SB

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/3	100					SIL	
4-10	10YR 3/3	85	5YR 3/4	15	C	M	L	
10-16	7.5YR 3/3	98	6Y 2.5/N	1	C	M		mganese
			7.5YR 4/6	1	C	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

Indicators for Problematic Hydric Soils³:

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Water Marks (B1) (Riverine)
	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____

Water Table Present? Yes _____ No Depth (inches): _____

Saturation Present? Yes _____ No Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove / Sacramento Sampling Date: 04/26/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 102
 Investigator(s): Andrew Bellas, Courtney Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'52.64"N Long: -121°23'36.15" Datum: GPS
 Soil Map Unit Name: San Joaquin silt loam, 0 to 3% slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum	Plot size	Absolute % Cover	Dominant Species?	Indicator Status		Dominance Test worksheet:
<u>Tree</u> Stratum	(Plot size: _____)					Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
1.						Total Number of Dominant Species Across All Strata: <u>1</u> (B)
2.						Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
3.						
4.						
_____ = Total Cover						
<u>Sapling/Shrub</u> Stratum	(Plot size: _____)					Prevalence Index worksheet:
1.						Total % Cover of: _____ Multiply by: _____
2.						OBL species _____ x 1 = _____
3.						FACW species _____ x 2 = _____
4.						FAC species _____ x 3 = _____
5.						FACU species _____ x 4 = _____
_____ = Total Cover						UPL species _____ x 5 = _____
						Column Totals: _____ (A) _____ (B)
						Prevalence Index = B/A = _____
<u>Herb</u> Stratum	(Plot size: <u>5</u>)					Hydrophytic Vegetation Indicators:
1.	<u>Lolium perenne</u>	<u>97</u>	<input checked="" type="checkbox"/>	<u>FAC</u>		<input checked="" type="checkbox"/> Dominance Test is >50%
2.	<u>Rumex crispus</u>	<u>71</u>	<input type="checkbox"/>	<u>FAC</u>		<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3.						<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4.						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5.						
6.						
7.						
8.						
<u>98</u> = Total Cover						
<u>Woody Vine</u> Stratum	(Plot size: _____)					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.						
2.						
_____ = Total Cover						
% Bare Ground in Herb Stratum <u>2</u> % Cover of Biotic Crust _____						Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:						

SOIL

Sampling Point: 602

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/3	98	5YR 3/4	2	C	M	SIL	
3-16	10YR 3/1	60	5YR 4/10	30	C	M	SICL	
			6Y 2.5/N	10	C	M		Manganese/concretion

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove/Sacramento Sampling Date: 4/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 60
 Investigator(s): Andrew Dallas, Courtney Owens Section, Township, Range: S26 T4N R5N
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%):
 Subregion (LRR): C Lat: 38°25'52.50"N Long: -121°23'36.50 Datum: GPS
 Soil Map Unit Name: San Joaquin silt loam, 0 to 3 % slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: _____)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
1. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
3. _____				
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
Herb Stratum (Plot size: _____)				Prevalence Index = B/A = _____
1. <u>Bromus hordeaceus</u>	<u>75</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Lolium perenne</u>	<u>18</u>		<u>FAC</u>	
3. <u>Vicia villosa</u>	<u>6</u>		<u>UPL</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
<u>99</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>71</u>		% Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:				

SOIL

Sampling Point: leb

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/4	100					SIL	
4-16	10YR 3/3	79	7.5YR 4/6	1	C	M	SIL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (2 or more required) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove/Sacramento Sampling Date: 04/26/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 72
 Investigator(s): A. Dellas, C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'53.27" N Long: -121°23'24.91" W Datum: GPS
 Soil Map Unit Name: San Joaquin silt loam, 0 to 3 % slopes NWI classification: N/14
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Eucalyptus obliqua</u>	<u>5</u>			Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2 = 50%</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species <u>1</u> x 1 = <u>1</u>
3. _____				FACW species <u>0</u> x 2 = <u>0</u>
4. _____				FAC species <u>2</u> x 3 = <u>6</u>
5. _____				FACU species <u>1</u> x 4 = <u>4</u>
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: <u>4</u> (A) <u>11</u> (B)
				Prevalence Index = B/A = <u>11/4 = 2.75</u>
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Tolium perennia</u>	<u>10</u>		<u>FAC</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Hordeum maritimum</u>	<u>10</u>		<u>FAC</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Scheuchzeria palustris</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Leontodon saxatilis</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>60</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>40</u>		% Cover of Biotic Crust _____		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:				

SOIL

Sampling Point: 70

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/3	100					L	
2-110	7.5YR 2/2	60	5YR 4/6	30	C	m	CL	
			6Y 2.5/N	10	C	m		Manganese concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove/Sacramento Sampling Date: 04/26/19
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 7D
 Investigator(s): A. Dallas + C. Owens Section, Township, Range: S26 T7N R5E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'53.37"N Long: -121°23'25.30"W Datum: GPS
 Soil Map Unit Name: San Joaquin silt loam NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>0</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species <u>0</u> x 1 = _____
3. _____				FACW species <u>0</u> x 2 = _____
4. _____				FAC species <u>0</u> x 3 = _____
5. _____				FACU species <u>4</u> x 4 = <u>16</u>
_____ = Total Cover				UPL species <u>1</u> x 5 = <u>5</u>
				Column Totals: <u>5</u> (A) <u>21</u> (B)
				Prevalence Index = B/A = <u>21/5 = 4.2</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Erodium brochycarpum</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Erodium malacoides</u>	<u>10</u>	<input type="checkbox"/>	<u>FACU</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Avena fatua</u>	<u>10</u>	<input type="checkbox"/>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Bromus hordeaceus</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Lolium perenne</u>	<u>10</u>	<input type="checkbox"/>	<u>FACU</u>	
6. _____				
7. _____				
8. _____				
<u>80</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>20</u>		% Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:				

SOIL

Sampling Point: 7b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/3	99	7.5 YR 4/4	>1	C	M	L	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____
 Water Table Present? Yes _____ No Depth (inches): _____
 Saturation Present? Yes _____ No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Laguna Creek City/County: Elk Grove/Sutter Sampling Date: 04/26/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 82
 Investigator(s): A. Dallas & C. Owens Section, Township, Range: S25 T7N R5E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C Lat: 38°25'46.23"N Long: -121°23'20.34"W Datum: GPS
 Soil Map Unit Name: Bruetta sandy loam, 0 to 2% slopes NWI classification: PEM1C
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
	= Total Cover			
Shrub/Strawberry Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
	= Total Cover			UPL species _____ x 5 = _____
	= Total Cover			Column Totals: _____ (A) _____ (B)
	= Total Cover			Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Lolium perenne</u>	<u>5</u>		<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Juncus patens</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Pogogyne zizyphoroides</u>	<u>5</u>		<u>OBL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
	<u>80</u> = Total Cover			
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
	= Total Cover			
% Bare Ground in Herb Stratum <u>20</u>	% Cover of Biotic Crust _____			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:				

SOIL

Sampling Point: 80

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	99	5YR 4/6	1	C	M	CL	
3-7	10YR 3/2	75	7.5YR 4/6	25	C	M	CL	
7-16	10YR 2/2	95	5YR 2/3	15	C	M	CL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? Yes No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Laguna Creek City/County: Elk Grove / Sacramento Sampling Date: 04/25/18
 Applicant/Owner: City of Elk Grove State: CA Sampling Point: 86
 Investigator(s): A. Dellas & C. Owens Section, Township, Range: S25 T7N R5E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR): C Lat: 38°25'46.19" N Long: -121°23'20.48" W Datum: GRS
 Soil Map Unit Name: Brixella sandy loam, 0-2% slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks:					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>1/0=0</u> (A/B)
4. _____					
			= Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:	
1. _____				Total % Cover of:	Multiply by:
2. _____				OBL species <u>0</u>	x 1 = _____
3. _____				FACW species <u>0</u>	x 2 = _____
4. _____				FAC species <u>2</u>	x 3 = <u>6</u>
5. _____				FACU species <u>1</u>	x 4 = <u>4</u>
			= Total Cover	UPL species _____	x 5 = _____
				Column Totals: <u>3</u> (A)	<u>10</u> (B)
				Prevalence Index = B/A = <u>10/3=3.3</u>	
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:	
1. <u>Bromus hordeaceus</u>	<u>45</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	___ 1 - Rapid Test for Hydrophytic Vegetation	
2. <u>Rumex crispus</u>	<u>15</u>		<u>FAC</u>	___ 2 - Dominance Test is >50%	
3. <u>Lolium perenne</u>	<u>30</u>		<u>FAC</u>	___ 3 - Prevalence Index is ≤3.0 ¹	
4. _____				___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____				___ 5 - Wetland Non-Vascular Plants ¹	
6. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)	
7. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____					
9. _____					
10. _____					
11. _____					
	<u>90</u>		= Total Cover		
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?	
1. _____				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. _____					
			= Total Cover		
% Bare Ground in Herb Stratum <u>10</u>					
Remarks:					

SOIL

Sampling Point: 8B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/4	10D					SL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydic Soils³:	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)		
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)		
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)		
			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydic Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____

Water Table Present? Yes _____ No Depth (inches): _____

Saturation Present? Yes _____ No Depth (inches): _____
(includes capillary fringe)

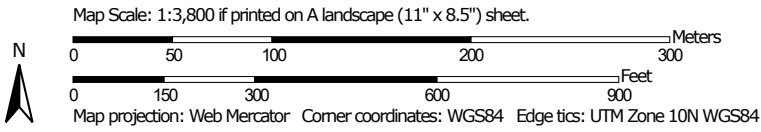
Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix F. NRCS Soil Survey Report

Soil Map—Sacramento County, California
(Project Area)



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California

Survey Area Data: Version 23, Aug 31, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
111	Bruella sandy loam, 0 to 2 percent slopes	5.9	30.8%
174	Madera loam, 0 to 2 percent slopes	7.3	38.0%
213	San Joaquin silt loam, leveled, 0 to 1 percent slopes	0.3	1.5%
214	San Joaquin silt loam, 0 to 3 percent slopes	5.7	29.8%
Totals for Area of Interest		19.2	100.0%

Appendix G. Reference Photos



Photo 1. Representative photo of West Stockton Boulevard within the Project area, and its urban landscape, taken facing north (7/26/2023).



Photo 2. Representative photo of the existing multi-use trail located east of West Stockton Boulevard. The new trail will be connected to this existing trail, taken facing north (7/26/2023).



Photo 3. Representative photo of Whitehouse Creek and upland annual grassland habitat. Taken facing north (7/27/2023).



Photo 4. Representative photo of Laguna Creek with emergent vegetation. Taken facing northeast (4/4/2018).



Photo 5. Representative photo of the annual grassland habitat north of Laguna Creek. Taken facing east (7/23/2023).



Photo 6. Representative photo of the emergent wetland habitat north of Laguna Creek. Taken facing west (7/23/2023).

Appendix H. GGS Habitat Assessment

Eric C. Hansen
Consulting Environmental Biologist

4200 N. Freeway Blvd., Suite 4
Sacramento, CA
95834-1235



Phone 916-921-8281
Fax 916-921-8278
Mobile 916-214-7848

Date:

To: Amy Dunay
Dokken Engineering
110 Blue Ravine Road, Ste 200
Folsom, CA 95630

Re: Giant gartersnake (*Thamnophis gigas*) Habitat Assessment on the City of Elk Grove's Laguna Creek / Whitehouse Creek Trail Project, Sacramento County, California.

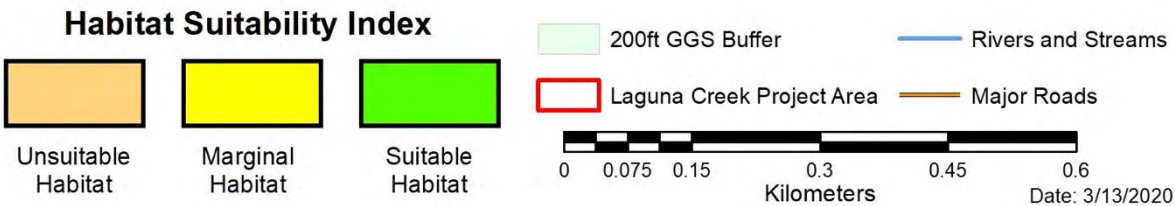
Dear Ms. Dunay,

This memorandum provides the results of the 6 March, 2020 survey at Elk Grove's Laguna Creek/Whitehouse Creek in Sacramento County, California. This survey was conducted to assess potential habitat for the giant garter snake (*Thamnophis gigas*) and was completed in reference to figures provided by Dokken Engineering via electronic mail on 6 February 2019. Potential habitat was evaluated using a combination of ground-level surveys, National Agricultural Imagery Program (NAIP) aerial imagery, and Geographic Information System (GIS) program ArcGIS 10.6 to roughly quantify existing habitat, to assess the overall suitability of the site based on the prevailing character of the landscape, and to examine the site's location in regard to historical and recent giant garter snake occurrence records. This memorandum provides a thorough species background (Appendix A), details the methodology used to assess habitat suitability (Appendix B), and includes a discussion of the site's suitability for giant garter snake conservation. Photographs illustrating the site's general character are provided in a separate photo appendix at the end of this document (Appendix C).

The lands encompassing this reach of Laguna Creek (Figure 1) area characterized by a combination of suitable features required to support permanent populations of garter snakes, including: 1) sufficient water during the active summer season to supply cover and food such as small fish and amphibians; 2) emergent, herbaceous aquatic vegetation accompanied by vegetated banks to provide basking and foraging habitat; 3) bankside burrows, holes and crevices to provide short-term aestivation sites; 4) high ground or upland habitat above the annual high water mark to provide cover and refugia from floodwaters during the dormant winter season (Hansen 1988, Hansen and Brode 1980).

The lands encompassing this reach of Whitehouse Creek constitute marginal habitat, which is characterized by any combination of those features listed above needed to support transient giant garter snakes on a temporary basis, or to act as connective corridors between areas of more stable or desirable habitat.

Figure 1. Map of giant gartersnake landscape suitability values



Project Description

The following is a project description provided by Dokken Engineering via electronic mail on 18 February, 2020:

“The Project would be constructed in two phases. Phase I of the Project would include construction of a maintenance access road (paved with no striping) from the existing Laguna Creek Trail, located south of the intersection of Beckington Drive and White Peacock Way, to a connection at East Stockton Boulevard approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive. The project may also consider a connection to the west end of the existing trail at Camden Park. The maintenance access road would be constructed above the 10-year flood plain to provide City maintenance crews and contractors access to Laguna and Whitehouse Creeks, especially during storm events. The maintenance access road would consist of 12 to 16 feet of pavement with unpaved shoulders ranging from 2 to 3 feet. While the majority of the maintenance access road would be paved, the segments of the maintenance road which provide direct access to Laguna Creek may be unpaved. Where determined feasible, single span pre-fab steel or concrete bridges providing necessary access across Laguna and Whitehouse Creeks.

Phase II of the Project would consist of converting the maintenance access road into a Class 1 multi-use trail corridor connection between the Camden Park and East Stockton Boulevard, with striping, paving unpaved segments of the access road, and trail amenities incorporated as necessary. Phase II of the Project would complete a gap within the trail system in accordance with the City’s Bicycle, Pedestrian, and Trails Master Plan.

A future phase, Phase III, may be constructed which would preserve, rehabilitate, and enhance the creeks and adjacent wetlands; however, Phase III is not part of this Project and will be subject to environmental review at a later time.

Right-of-way acquisitions and temporary construction easements are needed where the multi-functional corridor passes through privately-owned parcels.

This Project is funded through the City’s Storm Drainage Master Plan and is subject to compliance with the California Environmental Quality Act (CEQA). The lead agency for CEQA compliance is the City. The Project is also subject to compliance with the National Environmental Policy Act (NEPA) due to anticipated federal permitting through the U.S. Army Corps of Engineers federal nexus during the Clean Water Act Section 404 permitting process for project impacts to waters of the U.S.”

Proximity to Known Records

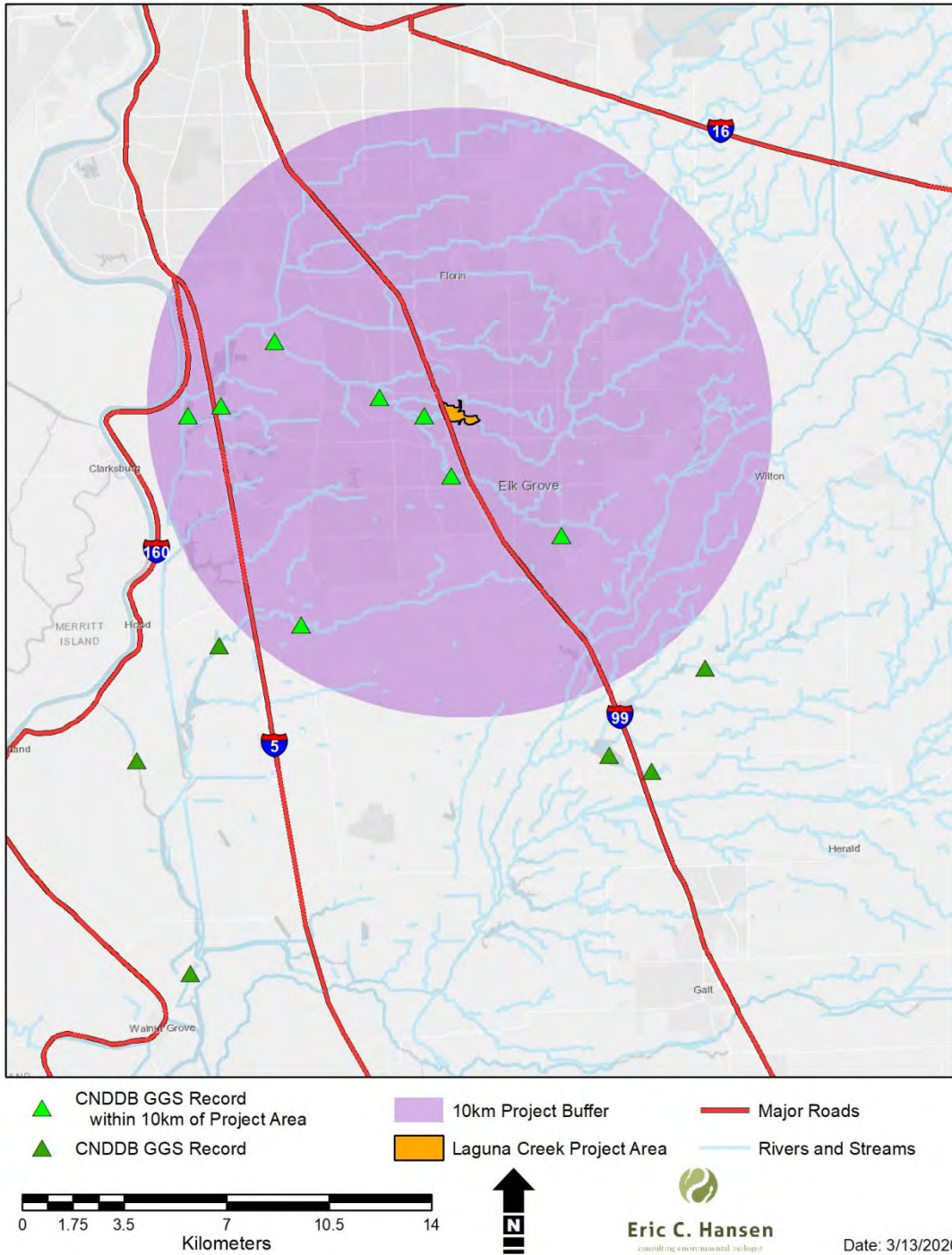
Giant gartersnakes have been documented within the project vicinity. A search of the California Natural Diversity Database (CNDDDB 2020) shows 8 GGS records within a 10-kilometer radius of the project area (Table 1, Figure 2), with at least 4 GGS documented within a 5-kilometer radius

of the project. While the CNDDDB search resulted in several occurrences of GGS near the project area, over half of the occurrences are nearly 30+ years old. In addition to the lapse of time since the majority of occurrences, there have been significant land use changes in this area which greatly reduce the likelihood these occurrences are still viable.

Table 1. CNDDDB GGS occurrence records within 10 km of the Project site

Occ. No.	USGS 7.5' Topographic Quadrangle(s)	Township	Range	Section	County	Year Last Seen
52	Bruceville	6N	5E	17	Sacramento	1976
169	Elk Grove	6N	6E	08	Sacramento	2002
13	Florin	7N	5E	35	Sacramento	1982
84	Florin	7N	5E	26	Sacramento	1982
15	Florin	7N	4E	25	Sacramento	1992
147	Florin	7N	4E	25	Sacramento	1965
14	Florin	7N	5E	27	Sacramento	1976
198	Florin	7N	5E	17	Sacramento	2005

Figure 2. CNDDDB occurrences within 10 Km of the Project site



Results and Discussion

Results from this survey were determined by a habitat assessment conducted on 6 March 2020 at Elk Grove's Laguna Creek/White House Creek.

During the 2020 survey to identify and classify areas of potential giant gartersnake habitat in the Project area, aquatic features were evaluated using a list of 22 variables associated with giant gartersnake life history to characterize features using Geographic Information Systems (GIS), resulting in a database file depicting cumulative habitat scores for each feature. Aquatic reaches within the entirety of the Project area have been projected as polygon features on maps and classified by cumulative habitat score to show suitability for giant gartersnakes. This evaluation provides a series of GIS-generated maps illustrating habitat value by colored code, supporting a detailed classification, by trait, of habitat variables within the Project area that can be used to guide planning and mitigation (Hansen 2017).

The habitat surrounding Laguna Creek is deemed suitable habitat due to a combination of features capable of supporting a permanent population of GGS and adjacent to this suitable habitat is Whitehouse Creek, which is marginal at best. Although the landscape surrounding Laguna Creek is considered suitable, landscape changes and urban development that has taken place in the surrounding area since the last CNDDDB record of occurrence may reduce the likelihood of GGS persistence in the region. However, patterns of contemporary occupancy and distribution of GGS in this region remain relatively unexplored, and intensive sampling has not been conducted to my knowledge since prior to 2000.

If you have questions regarding this evaluation, the methodologies, or any of the subsequent comments, please do not hesitate to contact me. I will gladly expand on any of these topics upon request.

Sincerely,

A handwritten signature in black ink that reads "Eric C. Hansen". The signature is written in a cursive, flowing style.

Eric C. Hansen
Consulting Environmental Biologist

Appendix A

The giant gartersnake (GGS) is a federal- and state-listed species endemic to California's Great Central Valley. Described as among California's most aquatic gartersnakes (Fitch 1940), GGS are associated with low-gradient streams and the wetlands and marshes of the valley floor. The conversion of Central Valley wetlands for agriculture and urban uses has resulted in the loss of as much as 95% of historical habitat for the GGS (Wylie et al. 1997). In some instances where wetlands have been reclaimed, GGS have adapted successfully to rice agriculture and the irrigation infrastructure supporting its practice (G. Hansen and J. Brode 1992; G. Hansen 1998; USFWS 1999; Wylie et al. 1997). GGS once ranged from Buena Vista Lake near Bakersfield, Kern County, north toward the vicinity of Chico in Glenn and Colusa Counties (Hansen and Brode 1980). Due mainly to loss or degradation of aquatic habitat resulting from agricultural and urban development, GGS has been either extirpated or else suffered serious declines throughout much of its former range. The current known distribution of GGS extends from near Chico in Butte County south to the Mendota Wildlife Area in Fresno County. GGS now occupy two geographically separate distributions within the Sacramento Valley and the Central San Joaquin Valley.

In areas where GGS has adapted to agriculture, maintenance activities such as vegetation and rodent control, bankside grading or dredging, and discharge of contaminants may also threaten their survival (Hansen and Brode 1980, Brode and Hansen 1992, Hansen and Brode 1993, USFWS 1999, Wylie et al. 2004). Continued loss of wetland or other suitable habitat resulting from agricultural and urban development constitutes the greatest threat to this species' survival, particularly in the southern aspect of its range.

Appendix B

Habitat Assessment

To identify and classify areas of potential giant gartersnake habitat in the Project area, aquatic features were evaluated using a list of 22 variables associated with giant gartersnake life history to characterize features using Geographic Information Systems (GIS), resulting in a database file depicting cumulative habitat scores for each feature. Aquatic reaches within the entirety of the Project area have been projected as polygon features on maps and classified by cumulative habitat score to show suitability for giant gartersnakes. This evaluation provides a series of GIS-generated maps illustrating habitat value by colored code, supporting a detailed classification, by trait, of habitat variables within the Project area that can be used to guide planning and mitigation.

Methods

Though no formal habitat assessment protocol exists for the giant gartersnake, the proposed assessment will assess attributes similar to those developed and provided by the U.S. Fish and Wildlife Service and California Department of Fish and Wildlife (formerly Department of Fish and Game) for California tiger salamander (*Ambystoma californiense*) and California red-legged frog (*Rana draytonii*). The work product characterizes suitability based on giant gartersnake life history parameters, the condition and contiguity of regional landscape features, including aquatic corridors providing linkages to suitable habitats, and proximity and connectedness to historical and recent giant gartersnake observations. Though informal, this approach has been applied repeatedly under varying scenarios (both large- and small-scale) to inform decision making through the NEPA/CEQA process.

Habitat evaluation criteria in this evaluation are based on recognized minimum ecological requirements for giant gartersnakes. Each criterion is scored, with a final numerical total represented categorically using GIS. Where possible, all results are based on a visual assessment of habitat; where visual confirmation was not possible, values are based on interpretation of aerial imagery. All surveys were conducted in publically accessible waters by watercraft. Aquatic habitat values assigned to agricultural ditches, canals, and drains in the study area are based on aerial imagery and cursory observations made from public waterways, public access roads and private roads transited during the study. No trapping, water sampling or other data collection activities occurred on agricultural ditches, canals, and drains in the study area. This evaluation provides a GIS-generated map illustrating habitat value by colored code, supporting a detailed classification, by trait, of habitat variables within the Project area. Scoring methodologies used for this assessment are modified from Appendix D (Page 157) of the USFWS 1999 Draft Recovery Plan for the Giant Garter Snake. The evaluation form has been updated for greater rigor in assessing habitat value, incorporates a step-wise scale to reduce scoring ambiguity, and is modified for use in GIS analyses.

For scoring the values of specific habitat attributes, this assessment includes a consideration of aquatic and upland habitat within 200 feet of identified ditches, drains, channels, or swales. In its Programmatic Formal Consultation for U.S. Army Corps of Engineers 404 Permitted Projects

Appendix B

with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, and Yolo Counties, California (USFWS 1997, 2004), the USFWS incorporated a standard of 200 feet of upland on each bank side of linear habitat as suitable upland for giant gartersnakes when assessing a project's disturbance area. The 200-foot upland buffer has become standard in subsequent Biological Opinions and impact analyses and is used as a set criterion for assessing outlying habitat value. However, because an overarching goal of this assessment is to place the study area in regional perspective, both directly- and remotely-sensed land cover data was used to characterize landscapes outside of the 200-foot buffer to interpret the influence this may have on the aquatic features of interest.

GIS analysis was completed using the program ArcGIS Version 10.4. Georectified orthographic aerial photos acquired through the National Agriculture Imagery Program (NAIP) were used as base templates to ensure the accurate depiction of habitat surveyed. GIS files delineating the Project area, provided by Dokken, were used as a base to create an attribute table containing all ranking variables, with associated variables documented for each segment and tallied to provide a total habitat score. The symbol legend of these layers was then separated into three classes based on the total score. This classification results in a map of aquatic habitat with corresponding habitat values of individual segments distinguished by unique legend colors. Legend classes with corresponding point ranges are summarized in **Table 1**, below.

Table 1: Scoring value and range

Habitat Value	Point Range
Unsuitable	0-7
Marginal	8-14
Suitable	15-25

Classification values are based upon recognized habitat characteristics and personal experience and knowledge of giant gartersnakes and their life history, distribution, and habitat covariates. Although point breaks within this valuation (Table 1) are based upon giant gartersnake habitat and ecological requirements, they are somewhat arbitrary in nature. The scores for each habitat feature provided within the database should be consulted when considering specific habitat types or trends. Valuation categories for potential habitats are defined below.

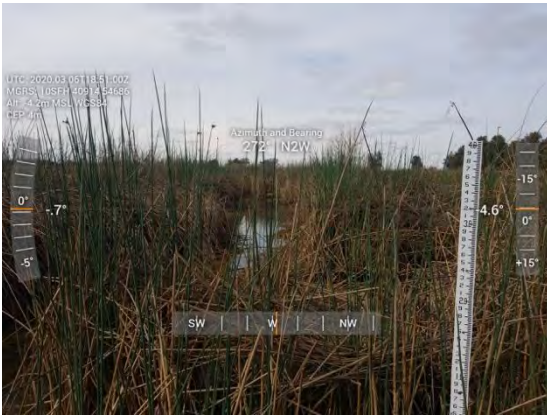
Suitable habitat is characterized by all of the features required to support permanent populations of gartersnakes, including: 1) sufficient water during the active summer season to supply cover and food such as small fish and amphibians; 2) emergent, herbaceous aquatic vegetation accompanied by vegetated banks to provide basking and foraging habitat; 3) bankside burrows, holes and crevices to provide short-term aestivation sites; 4) high ground or upland habitat above the annual high water mark to provide cover and refugia from floodwaters during the dormant winter season (Hansen 1988, Hansen and Brode 1980).

Appendix B

Marginal habitat is characterized by any combination of those features listed above needed to support transient giant gartersnakes on a temporary basis, or to act as connective corridors between areas of more stable or desirable habitat. This habitat need only possess the water, vegetation, and refugia required to provide minimal coverage for dispersing snakes. On its own, marginal habitat is considered incapable of supporting permanent populations of giant gartersnakes and is typically ephemeral, providing no permanent source of prey.

Unsuitable land is devoid of the water, vegetation, and refugia necessary to support giant gartersnakes for a meaningful time. Such habitat is generally composed of large rivers, lakes, gunitite drains or temporary swales that possess no water during the active spring and summer seasons. As such, unsuitable corridors are no more likely to support giant gartersnakes than any non-aquatic environment, and if they do so, they do so only by chance. Transient features, such as shallow trenches and furrows intended only to direct winter runoff, typically do not persist through the remainder of the season, do not provide the aquatic features necessary to support giant gartersnakes for a meaningful time, and should therefore be assigned to this category. However, because transient features still exhibit characteristics such as winter water, bank sun, and bank or upland vegetation, they can accumulate the number of points necessary to qualify as *marginal* habitat in this evaluation scheme. Wetted features lacking any supporting characteristics are also deemed unsuitable if the distance or connectivity to suitable, occupied habitat is likely to preclude their use as migration corridors.

Appendix C



Laguna Creek – East end facing west



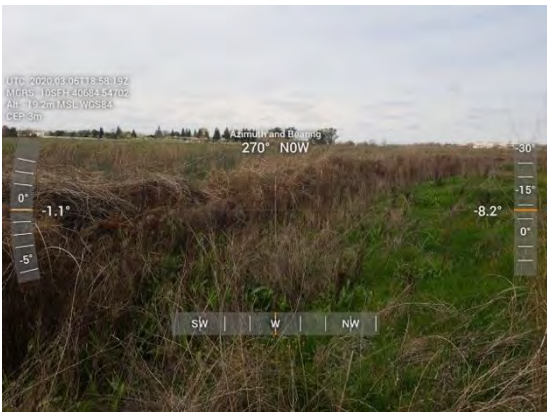
Laguna Creek – East end facing south



Laguna Creek – East end facing east



Laguna Creek – East end facing north



Laguna Creek – Eastern end facing west



Laguna Creek – Eastern end facing north

Appendix C



Laguna Creek – Eastern end facing south



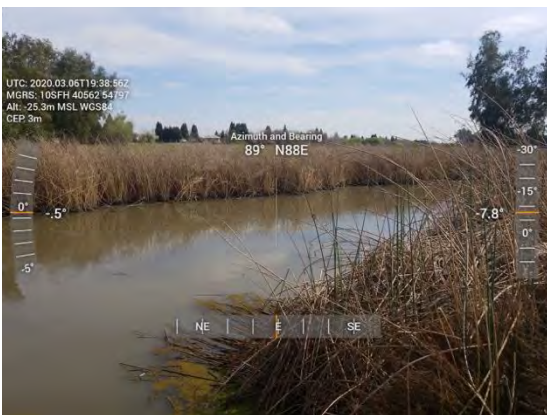
Burrows found near Laguna Creek



Burrows found near Laguna Creek



Laguna Creek upland facing west



South side of Laguna Creek facing northeast



South side of Laguna Creek facing north

Appendix C



Central Laguna Creek facing east



Central Laguna Creek facing northeast



Laguna Creek – western end facing west



Small creek connecting to west end Laguna Creek



Laguna Creek – west end facing east



Laguna Creek – western most end facing north

Appendix C



Laguna Creek – western most end facing south



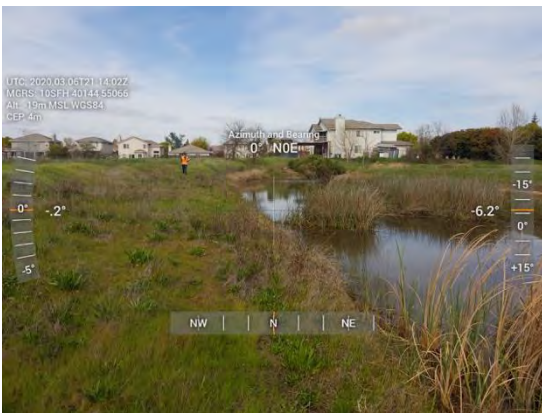
Whitehouse Creek – northeast end facing southwest



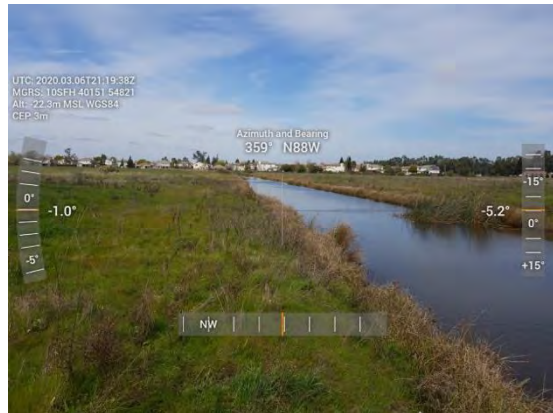
Whitehouse Creek – north end facing east



Whitehouse Creek – middle section facing east



Whitehouse Creek – middle section facing north



Whitehouse Creek – southern end facing north

Appendix C



Whitehouse Creek – southern end facing west



Whitehouse Creek – southern end facing south

Appendix D

References

- Brode, J., and G. Hansen. 1992. Status and future management of the giant garter snake (*Thamnophis gigas*) within the southern American Basin, Sacramento and Sutter Counties, California. California Department of Fish and Game, Inland Fisheries Division.
- California Department of Fish and Wildlife. 2020. California Natural Diversity Database (CNDDDB) – Commercial Version. Accessed March 10, 2020.
- Fitch, H.S. 1940. A biogeographical study of the *ordinoides* artenkreis of garter snakes (genus *Thamnophis*). Univ. Calif. Publ. Zool. 44:1-150.
- Hansen, G.E. and J.M. Brode. 1980. Status of the giant garter snake, *Thamnophis couchi gigas* (Fitch) and its supporting habitat. California Department of Fish and Game. Inland Fisheries Division Endangered Species Division Special Report No. 80-5. 14pp.
- Hansen, G.E. and J.M. Brode. 1993. Results of relocating canal habitat of the giant garter snake (*Thamnophis gigas*) during widening of State Route 99/70 in Sacramento and Sutter counties, California. Final report for Caltrans Interagency Agreement 03E325 (FG7550) (FY 87/88-91-92). Unpublished. 36 pp.
- Hansen, G.E. 1988. Review of the Status of the giant garter snake (*Thamnophis couchii gigas*) and its supporting habitat during 1986-87. Final report for the California Department of Fish and Game, Contract C-2060. Unpublished. 31 pp.
- Hansen, G.E. 1998. Cherokee Canal sediment removal project post-construction giant garter snake (*Thamnophis gigas*) surveys. Final report for California Department of Water Resources. Contract No. B-81535. Unpublished. 9 pp.
- Hansen, E.C. 2017. Year 2016 Giant gartersnake (*Thamnophis gigas*) sruveys for the San Joaquin River Restoration program’s Mendota pool bypass and reach 2B improvements project: Fresno and Madera counties, California. Prepared for AECOM.
- USFWS (U.S. Fish and Wildlife Service). 1993. Endangered and threatened wildlife and plants; determination of threatened status for the giant garter snake. Federal Register 58:54053-54066).
- USFWS (U.S. Fish and Wildlife Service). 1999. Draft recovery plan for the giant garter snake (*Thamnophis gigas*). U.S. Fish and Wildlife Service, Portland, Oregon. Ix+ 192 pp.
- USFWS (U.S. Fish and Wildlife Service). 2006. Giant Garter Snake (*Thamnophis gigas*) 5-Year Review: Summary and Evaluation. U.S. Fish and Wildlife Service, Sacramento Fish and Wildlife Office, Sacramento, California

Appendix D

Wylie, G.D., M.L. Casazza, and J. K. Daugherty. 1997. 1996 progress report for the giant garter snake study. Dixon Research Station, California Science Center, USGS Biological Resources Division, Dixon, CA.

Wylie, G. D., Casazza, M.L., Martin, L. January 2004. Monitoring Giant Garter Snakes in the Natomas Basin: 2003 Results. Dixon Field Station; USGS-BRD, Dixon, CA.

Appendix D:
Initial Site Assessment Report

INITIAL SITE ASSESSMENT REPORT



Laguna Creek Inter-Regional Trail Crossing Project Elk Grove, California

PREPARED FOR:

**DOKKEN ENGINEERING
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FOLSOM, CALIFORNIA 95630**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**





Project No. S2722-05-01
June 10, 2024

Dokken Engineering
110 Blue Ravine Road, Suite 200
Folsom, California 95630

Attn: Jacqueline Lockhart, Senior Engineer

Subject: INITIAL SITE ASSESSMENT REPORT
LAGUNA CREEK INTER-REGIONAL TRAIL CROSSING PROJECT AT STATE ROUTE 99
ELK GROVE, CALIFORNIA

Ms. Lockhart:

In accordance with the *Agreement Between Consultant and Subconsultant* dated January 29, 2024, between Dokken Engineering (Dokken, the Client) and Geocon Consultants, Inc., we performed an Initial Site Assessment (ISA) of the proposed Laguna Creek Inter-Regional Trail (LCIRT) Crossing Project at State Route 99 and surrounding area (Project Study Area) in Elk Grove, California. We performed the ISA for Dokken on behalf of the City of Elk Grove, to assess the Project Study Area for the potential presence of recognized environmental conditions as defined by the American Society for Testing and Materials *Designation E 1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* prior to proceeding with construction of the LCIRT Crossing Project at State Route 99. The enclosed report describes the ISA and presents our findings, conclusions, and recommendations.

We appreciate the opportunity to have performed this ISA for Dokken on behalf of the City of Elk Grove. Please contact us if you have any questions concerning the report and our findings or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Cristian Virrueta
Senior Staff Geologist

John Juhrend, PE, CEG
Senior Engineer

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INITIAL SITE ASSESSMENT REPORT

1.0 INTRODUCTION

Geocon Consultants, Inc. (Geocon) has performed an Initial Site Assessment (ISA) of the proposed Laguna Creek Inter-Regional Trail (LCIRT) Crossing Project at State Route 99 and surrounding area (Project Study Area) in Elk Grove, California. We performed the ISA for Dokken Engineering (Dokken, the Client) on behalf of the City of Elk Grove (City) to assess the Project Study Area for the potential presence of recognized environmental conditions (REC), as defined by the American Society for Testing and Materials (ASTM) *Designation E 1527-21 – Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* prior to proceeding with construction of the LCIRT Crossing Project at State Route 99.

This report describes the ISA methodology and presents our findings, opinions, and conclusions. The report is organized as follows:

- Section 1.0 provides a description of the purpose and objectives of the ISA, defines terms, and describes the ISA services, limitations, and identified data gaps;
- Section 2.0 describes the Project Study Area’s physical setting and conditions;
- Section 3.0 summarizes readily available records for the Project Study Area and surrounding properties that we obtained from regulatory and administrative agencies and other sources;
- Section 4.0 describes the historical use of the Project Study Area and surrounding area ascertained from historical records and information sources;
- Section 5.0 describes the Project Study Area and surrounding properties and facilities from our observations during the Project Study Area reconnaissance;
- Section 6.0 presents our findings and conclusions regarding RECs and recommendations for further environmental assessment, if any;
- Section 7.0 lists the references cited in this ISA; and
- Section 8.0 provides a qualifications statement from the environmental professional responsible for the ISA and report.

1.1 Purpose and Definitions

Dokken requested this ISA to determine the potential presence of contaminated properties within and adjacent to the proposed LCIRT Crossing Project at State Route 99 that may impact construction of the proposed trail and overcrossing improvements. The ISA was performed in general accordance with *Caltrans Initial Site Assessment Guidance Document* (Geomatrix, 2006) and project-specific scoping.

The purpose of the ISA was to identify evidence or indications of RECs, or other qualified RECs, at the Project Study Area as defined by the ASTM *Designation E 1527-21*. ASTM *Designation E 1527-21* defines an REC as “(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.” De minimis conditions are further described as “a condition related to a release that generally does not present a threat to human health or the environment and generally would not be the subject of the enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.”

ASTM *Designation E1527-21* also defines “historical” and “controlled” RECs (HREC and CREC, respectively). An HREC is defined as “a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations).” A CREC is defined as “recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).” An HREC is generally not an REC if a property meets current standards for unrestricted residential use. A CREC remains an REC by definition when a property does not meet the unrestricted residential use requirement unconditionally.

We define a “potential environmental concern” as a past use of the Project Study Area or adjoining or adjacent property that may have involved the use, storage, and/or release of hazardous substances or petroleum products that could have impacted the Project Study Area, but for which there are no records or other information to confirm that use, storage, or release. An example would be the possible application of pesticides to an agricultural field (i.e., irrigated row crop or orchard), but for which there are no records of such application or confirmation from a knowledgeable person (i.e., Project Study Area owner/occupant/operator) that pesticides were used.

The Code of Federal Regulations (CFR) *Standards and Practices for All Appropriate Inquiries* (AAI; CFR Title 40, Part 312) identifies ASTM *Designation E 1527-21* as an acceptable guidance document for performing a Phase I ESA (and updates) that satisfies the federal requirements for AAI

under Sections 101(35)(B)(ii) and (iii) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of AAI is to meet some of the requirements to qualify for certain landowner liability protections under CERCLA.

1.2 Phase I ESA Principles

The following principles are an integral part of ASTM *Designation E 1527-21*:

- **“Uncertainty Not Eliminated** - No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a subject property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a subject property, and this practice recognizes reasonable limits of time and cost.”
- **“Not Exhaustive** - All Appropriate Inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information.”
- **“Level of Inquiry is Variable** - Not every property will warrant the same level of assessment. Consistent with good commercial and customary standards and practices as defined at 42 U.S.C. § 9601(35)(B), the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, future intended uses of the subject property disclosed to the environmental professional, and the information developed in the course of the inquiry.”
- **“Comparison with Subsequent Inquiry** - It should not be concluded or assumed that an inquiry was not all appropriate inquiries merely because the inquiry did not identify recognized environmental conditions in connection with a subject property. Environmental site assessments must be evaluated based on the reasonableness of judgments made at the time and under the circumstances in which they were made. Subsequent environmental site assessments should not be considered valid standards to judge the appropriateness of any prior assessment based on hindsight, new information, use of developing technology or analytical techniques, or other factors.”
- **“Point in Time** - The environmental site assessment is based upon conditions at the time of completion of the individual environmental site assessment elements.”

1.3 Scope of Services

The *Agreement Between Consultant and Subconsultant*, dated January 29, 2024, describes our ISA services. We performed the scope of services outlined in the proposal with the exception that we did not review Sanborn Fire insurance Maps (Sanborn maps). Environmental Data Resources, Inc.

(EDR) stated that Sanborn map coverage does not exist for the Project Study Area and vicinity. The main components of the ISA and their objectives, as specified by the referenced standards, include the following:

- **Physical Setting:** We reviewed various references to obtain information concerning the topographic, geologic, and hydrologic/hydrogeologic characteristics of the Project Study Area and vicinity. Such information may be indicative of the direction and/or extent that a contaminant could be transported in the event of a spill or release on or near the Project Study Area.
- **Records Review:** We reviewed publicly available federal, state, and local regulatory agency records to obtain information that could potentially help identify RECs at or potentially affecting the Project Study Area.
- **Project Study Area History:** We reviewed historical information sources to assess previous uses of the Project Study Area and surrounding area and identify those that could have led to RECs on the Project Study Area. Those information sources included historical aerial photographs and topographic maps, and city directories.
- **Project Study Area Reconnaissance:** We performed a reconnaissance to observe Project Study Area uses and conditions for evidence or indications of RECs. We viewed adjoining and adjacent offsite properties and features solely from the vantage of the Project Study Area and public thoroughfares.

1.4 Report Limitations

We prepared this ISA report exclusively for Dokken and the City. The information obtained is only relevant for the latest of the dates of the records reviewed, the latest Project Study Area visit, and completion of interviews with governmental officials and/or Project Study Area owner(s), occupant(s), and/or operator(s) as cited in Section 1.2.

Dokken and the City should recognize that an ISA is not a comprehensive Project Study Area characterization and should not be construed as such. The findings and conclusions presented in this report are predicated on the Project Study Area reconnaissance, information in the specified regulatory records, and information regarding the historical usage of the Project Study Area, as presented in this report. Dokken and the City should also understand that we did not assess the Project Study Area for wetlands or perform testing (sample collection and analysis) for asbestos-containing building materials, lead-containing paint, lead in drinking water, radon, mercury, methane, mold, per- and polyfluoroalkyl substances, or potential naturally occurring hazards such as asbestos and arsenic as part of this ISA. The ISA did not include sample collection and laboratory analysis, nor did it include the evaluation of regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, air quality, or geologic hazards.

The information provided in this report is not meant to eliminate the risk involved in property transactions. No guarantee or warranty of the results of the ISA is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either express or implied. We strived to conduct the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

2.0 PROJECT STUDY AREA DESCRIPTION

This section describes the location and physical characteristics of the Project Study Area including its size, topography, and geologic, soil, hydrologic, and hydrogeologic conditions.

2.1 Location and Legal Description

The Project Study Area is located approximately ½ mile south of the State Route (SR) 99 and Sheldon Road interchange in northern Elk Grove, California (Figure 1). The western-most point of the Project Study Area is approximately 550 feet west of SR 99 and the eastern-most point of the Project Study Area is approximately 1,200 feet east of SR 99. Within the Public Land Survey System of California, the Project Study Area is in Section 26, Township 7 North, Range 5 East, Mount Diablo Base and Meridian.

2.2 Project Study Area and Vicinity General Characteristics

The Project Study Area comprises portions of the Laguna Creek Bypass Channel, portions of West and East Stockton Boulevard, portions of northbound and southbound SR 99 (including a portion of SR 99 off-ramp and shoulders), portions of the Creekside Christian Church property, portions of Laguna Creek, and portions of Whitehouse Creek (Figure 2). The Project Study Area is surrounded by residential, recreational, transportation, and institutional properties.

2.2.1 Topography

The topography of the Project Study Area is relatively flat-lying with an overall gentle downward slope toward creeks. Elevations at the Project Study Area range from approximately 20 feet above mean sea level (MSL) in the western portion to approximately 35 feet above MSL in the eastern portion (USGS, 2021).

2.2.2 Geologic Conditions

We obtained geologic information regarding the Project Study Area from a variety of sources including:

- *California Geology* (Harden, 2003),
- *Note 36, California Geomorphic Provinces* (California Geological Survey [CGS], 2002), and
- *Preliminary Geologic Map of the Lodi 30' x 60' Quadrangle, California* (CGS, 2009).

Following are summaries of pertinent information obtained.

2.2.2.1 *Geomorphic Region*

The Project Study Area is situated in the southern Sacramento Valley, which is the northern portion of the Great Valley geomorphic province of California. The Sacramento Valley is bounded by the Sierra Nevada and Cascade mountain ranges to the east, the Coast Ranges to the west, and drains via the Sacramento River and its tributaries south to the Sacramento-San Joaquin river delta. The Sacramento Valley is filled with a thick sequence of Jurassic to Recent-age sedimentary deposits both marine and continental in origin (CGS, 2002; Harden, 2003).

2.2.2.2 *Geologic Formations/Stratigraphy*

The referenced geologic map indicates that the Project Study Area is underlain by Pleistocene Riverbank formation (middle unit), which generally consists of interbedded silt, sand, and gravel deposits (CGS, 2009).

2.2.3 Soil Conditions

The United States Department of Agriculture – Natural Resources Conservation Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) indicates that surficial soil at the Project Study Area is classified as:

- **San Joaquin Silt Loam:** moderately well-drained soils on low terraces formed in alluvium derived from dominantly granitic rock sources;
- **Madera Loam:** well or moderately well-drained soils that formed in old alluvium derived from granitic rock sources;
- **Bruella Sandy Loam:** very deep, well and moderately well-drained soils formed in alluvium from granitic rock sources; and
- **Urban land:** impervious (i.e., paved and built-on) land that has been altered during construction by grading and excavation.

2.2.4 Hydrologic and Hydrogeologic Conditions

Portions of Laguna Creek and Whitehouse Creek are present in the eastern portion of the Project Study Area. A portion of the Laguna Creek Bypass Channel is present in the western portion of the Project Study Area.

The California Department of Water Resources (DWR) Sustainable Groundwater Management Act *Data Viewer* website (<https://sgma.water.ca.gov>) shows an irrigation water supply well on the adjoining property, approximately 160 feet north of the Project Study Area. The well completion report for this well indicates that depth to groundwater was measured at 75 feet in 2009.

The California Department of Water Resources Sustainable Groundwater Management Act (SGMA) Data Viewer (<https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels>) depicts groundwater flow in the vicinity of the Project Study Area during spring 2023 to the east.

2.3 Current and Planned Uses of the Project Study Area

The Project Study Area comprises portions of the Laguna Creek Bypass Channel, portions of West and East Stockton Boulevard, portions of northbound and southbound SR 99 (including a portion of SR 99 off-ramp and shoulders), portions of the Creekside Christian Church property, portions of Laguna Creek, and portions of Whitehouse Creek. Further descriptions of Project Study Area conditions are in Section 5.0.

The City plans to construct a segment of the LCIRT which includes an 800-foot long pedestrian overcrossing spanning West Stockton Boulevard, SR 99, and East Stockton Boulevard, a paved multi-use trail east of the pedestrian overcrossing with shallow cut/fill grading, and a pedestrian bridge (prefabricated truss) spanning Whitehouse Creek. Groundwater dewatering may be required for bridge footing construction due to the proximity of Laguna Creek.

The planned improvements will be constructed within the existing State and City right-of-way (ROW) with proposed acquisition of additional property from adjoining parcels. The following table summarizes information regarding potential acquisitions and/or temporary construction easements (TCE) for these parcels. A copy of the project improvement plans is in Appendix A.

Property Address	Sacramento County Assessor's Parcel Number (APN)	Property Owner	Rationale
8910 West Stockton Boulevard	116-0021-046-0000	City of Elk Grove	TCE
None	116-1440-049-0000	Consumnes Community Services District	TCE
9189 East Stockton Boulevard	116-0030-025-0000	East Lawn, Inc.	TCE
8939 East Stockton Boulevard	116-0030-075-0000	Creekside Christian Church	TCE and partial property acquisition

TCE and partial property acquisition limits are currently under review by the City and are not yet finalized. The partial property acquisitions are anticipated to comprise the length of the proposed trail alignment (approximately 1,200 feet) and the width of the trail and adjacent slopes (approximately 20 to 30 feet). The planned improvements are depicted in Figure 2.

2.4 Current Uses of Adjoining Properties

The current uses of adjoining and nearby properties include single-family residential northwest and southwest of the Project Study Area, institutional (church) east and north of the Project Study Area, transportation (SR 99, West and East Stockton Boulevard) to the north and south, and riparian and undeveloped land to the east and west.

3.0 RECORDS REVIEW

This section summarizes information we obtained from readily available agency records pertaining to the Project Study Area and properties and facilities in the vicinity of the Project Study Area.

3.1 Standard Environmental Record Sources

EDR searched federal, state, and local environmental databases for the Project Study Area and properties/facilities within one mile of the Project Study Area. The following table shows the databases that list the Project Study Area and/or offsite properties/facilities and the total number of listed properties/facilities for each database. Databases that list no properties/facilities within one mile of the Project Study Area are not included in the table. A copy of the report: *The EDR Radius Map Report with GeoCheck*, dated March 16, 2024, is in Appendix B.

Database Name	Search Radius (Miles)	Number of Listings
FEDERAL DATABASES		
Resource Conservation and Recovery Act – SQG (Small Quantity Generator)	0.25	1
STATE, LOCAL, AND TRIBAL DATABASES		
Department of Toxic Substances Control [DTSC] Site Mitigation and Brownfields Reuse Program (ENVIROSTOR)	1.0	4
Solid Waste Facilities/Landfill Sites (SWF/LF)	0.5	1
Leaking Underground Storage Tank (LUST)	0.5	1
Cleanup Program Sites – Spills, Leaks, Investigations, and Cleanups (CPS-SLIC)	0.5	2
Sacramento County Contaminated Sites (Sacramento Co. CS)	0.5	3
Voluntary Cleanup Priority Listing (VCP)	0.5	2
ADDITIONAL ENVIRONMENTAL RECORDS		
Recycler Database (SWRCY)	0.5	1
California Environmental Reporting System (CERS HAZ WASTE)	0.25	1
RCRA NonGen/NLR (Non-Generator/No Longer Regulated)	0.25	3
PFAS Contaminated Sites (PFAS)	0.25	1
Hazardous Waste and Substances Site List (CORTESE)	0.5	1
Cleaner Facilities (DRYCLEANERS)	0.25	1
Facility and Manifest Data (HAZNET)	0.001	1
Historical Hazardous Waste & Substance Site List (HIST CORTESE)	0.5	1
Sacramento County Master List (Sacramento Co. ML)	0.25	5
Hazardous Waste Tracking System (HWTS)	0.001	1
UST Finder Releases Database (UST Finder Release)	0.5	1

3.1.1 Project Study Area

The Project Study Area is not listed on any of the databases searched by EDR.

3.1.2 Offsite Properties

Seven properties within ¼ mile of the Project Study Area are listed on various non-release-related¹ databases. Two facilities within ¼ mile of the Project Study Area are listed on various release-related databases but have closed regulatory cases that involved a release to soil only, or are less than ¼ mile from the Project Study Area and had a release to groundwater, but are cross- to downgradient of the Project Study Area and therefore unlikely to have caused an REC at the Project Study Area. The following table summarizes information regarding properties/facilities within ¼ mile of the Project Study Area that are listed on one or more release-related databases, the status of their listings, and their potential, if any, to cause (or have caused) an REC at the Project Study Area.

Business Name	Address	Approximate Distance from the Project Study Area	Database	Pertinent Information/Potential to Cause an REC at the Project Study Area
Best Buy #0349	931 W Stockton Boulevard	1,169 feet south (downgradient) of the Project Study Area	CHMIRS, RCRA NonGen/NLR, CERS HAZ WASTE, Sacramento Co. ML	The CHMIRS database indicates a release occurred at this property that affected surrounding air with propane in 2001. No pertinent information is provided on the RCRA NonGen/NLR, CERS HAZ WASTE, and Sacramento Co. ML databases. The release of propane would not have caused an REC at the Project Study Area.

¹ "Release" refers to an unauthorized release of a petroleum product or hazardous substance to the environment - i.e. the ground surface, soil, soil vapor, groundwater, or surface water on a property. "Release-related database" refers to those which provide information regarding an unauthorized release. "Non-release-related database" refers to those that may report use, storage, or disposal of hazardous substances and/or petroleum products or other environmental conditions, but do not report releases of such.

Business Name	Address	Approximate Distance from the Project Study Area	Database	Pertinent Information/Potential to Cause an REC at the Project Study Area
Four Seasons Cleaners	9141 East Stockton Boulevard	1,276 feet south-southeast (downgradient) of the Project Study Area	CPS-SLIC, Sacramento Co. CS, CERS, RCRA-SQG, FINDS, ECHO, DRYCLEANER, HWTS, HAZNET, Sacramento Co. ML	The CPS-SLIC and Sacramento Co. CS databases indicate a release occurred at this property that affected soil and soil vapor with volatile organic compounds. The Sacramento County Environmental Management Department (SCEMD) closed the case in July 2010. The DRYCLEANERS database indicates that this facility has provided drycleaning and laundry services since 1997. The HAZNET database indicates that this facility generated liquids with halogenated organic compounds which were transported offsite for disposal from 1999 until 2007. No pertinent information is provided on the RCRA-SQG, CERS, HWTS, FINDS, ECHO, and Sacramento Co. ML databases. The closed status of the regulatory case and distance from the Project Study Area suggest that the release at this property is unlikely to have caused an REC at the Project Study Area.

3.2 Orphan Summary

EDR’s Orphan Summary identifies properties and facilities that have incomplete address information and therefore could not be accurately plotted. The Orphan Summary lists four facilities on release-related databases that are all greater than one mile from the Project Study Area and therefore unlikely to have caused an REC at the Project Study Area.

3.2.1 GeoTracker and EnviroStor

We reviewed information available on the California State Water Resources Control Board’s GeoTracker (<http://geotracker.waterboards.ca.gov>) and the California Department of Toxic Substances Control’s (DTSC) EnviroStor (<http://www.envirostor.dtsc.ca.gov/public/>) online data management systems for information regarding documented environmental assessment and cleanup at the Project Study Area and/or properties/facilities within ¼ mile of the Project Study Area. No information pertaining to the Project Study Area and properties/facilities within a ¼ mile of the Project Study Area is available on GeoTracker and EnviroStor.

3.2.2 California Geologic Energy Management Division

The California Geologic Energy Management Division's (CalGEM) Well Finder, an online petroleum (oil and natural gas) field and well mapping system depicts a plugged natural gas well (dry hole) approximately 1,100 feet west of the Project Study Area. Records for this well indicate the well was abandoned in April 1953 (CalGEM, 2024).

3.2.3 National Pipeline Mapping System

The National Pipeline Mapping System (NPMS) online mapping system does not show any natural gas or liquid petroleum pipelines on or in the vicinity of the Project Study Area.

4.0 HISTORICAL USE

We evaluated the historical use of the Project Study Area and adjacent properties through review of historical aerial photographs, topographic maps, and city directories provided by EDR. This section summarizes information obtained from these sources.

4.1 Aerial Photographs

We reviewed historical aerial photographs provided by EDR for the years 1937, 1947, 1957, 1964, 1966, 1972, 1977, 1984, 1993, 1998, 2006, 2009, 2012, 2016, and 2020 (Appendix C) and aerial imagery available on Google Earth for the years 2021 through 2023 for indications of past land uses that had the potential to have impacted the Project Study Area through the use, storage, or disposal/release of hazardous substances and/or petroleum. The following table summarizes our observations of the Project Study Area and adjoining and adjacent properties on the historical aerial photographs.

Year	Observations	
	Project Study Area	Adjoining and Adjacent Properties
1937 (1" = 500')	The Project Study Area appears to have been predominantly grazing farmland. A road was present in the central portion of the Project Study Area. A creek was present in the eastern and western portion of the Project Study Area.	Surrounding properties were similar farmland, and large acreage single-family rural residential. A road continued north and south of the Project Study Area. A creek continued east and west of the Project Study Area.
1947 (1" = 500')	Conditions appear to have been similar to those observed in the 1937 photograph.	Conditions appear to have been similar to those observed in the 1937 photograph.
1957 (1" = 500')	Conditions appear to have been similar to those observed in the 1947 photograph except a highway (SR 99) was under construction in the central portion of the Project Study Area. A road parallel to the highway (East and West Stockton Boulevard) was present east and west of the highway.	Conditions appear to have been similar to those observed in the 1947 photograph except a highway (SR 99) was under construction north and south of the Project Study Area.
1964 (1" = 500')	Conditions appear to have been similar to those observed in the 1957 photograph.	Conditions appear to have been similar to those observed in the 1957 photograph.
1966 (1" = 500')	Conditions appear to have been similar to those observed in the 1964 photograph.	Conditions appear to have been similar to those observed in the 1964 photograph.
1972 (1" = 500')	Conditions appear to have been similar to those observed in the 1966 photograph.	Conditions appear to have been similar to those observed in the 1966 photograph.
1984 (1" = 500')	Conditions appear to have been similar to those observed in the 1972 photograph.	Conditions appear to have been similar to those observed in the 1972 photograph.
1993 (1" = 500')	Conditions appear to have been similar to those observed in the 1984 photograph.	Conditions appear to have been similar to those observed in the 1984 photograph except a building was under construction on the adjoining property northeast of the Project Study Area.

Year	Observations	
	Project Study Area	Adjoining and Adjacent Properties
1998 (1" = 500')	Conditions appear to have been similar to those observed in the 1993 photograph except the highway appears to have been widened.	Conditions appear to have been similar to those observed in the 1993 photograph except graded land for a residential development was present north and northwest of the Project Study Area. The highway north and south of the Project Study Area appears to have been widened.
2006 (1" = 500')	Conditions appear to have been similar to those observed in the 1998 photograph except a road was present on the western portion of the Project Study Area.	Conditions appear to have been similar to those observed in the 1998 photograph except a residential development was present north, northwest, and southwest of the Project Study Area.
2009 (1" = 500')	Conditions appear to have been similar to those observed in the 2006 photograph except the eastern portion of the Project Study Area appears to have been graded.	Conditions appear to have been similar to those observed in the 2006 photograph except a highway interchange was under construction north of the Project Study Area.
2012, 2016, and 2020 (1" = 500')	Conditions appear to have been similar to those observed in the 2009 photograph.	Conditions appear to have been similar to those observed in the 2009 photograph.
2021-2023 (Google Earth)	Conditions appear to have been similar to those observed in the 2009 through 2020 photographs.	Conditions appear to have been similar to those observed in the 2009 through 2020 photographs.

The historical aerial photographs show agricultural use (dry and irrigated crop fields) of portions of the Project Study Area and surrounding properties prior to 1937 until sometime between 1984 and 1993. The former agricultural use of portions of the Project Study Area is a potential environmental concern because of the potential application of pesticides to crops on the eastern portion of the Project Study Area and the potential for residual pesticides and associated metals (arsenic and lead) to be present in soil as a result. Grading and paving sometime prior to 1993 for the development of the Creekside Christian Church may have distributed any residual pesticides and contributed to their attenuation (if present). The historical aerial photographs do not show other features or land uses that would directly suggest the presence of RECs on the Project Study Area or nearby properties.

4.2 Topographic Maps

We reviewed historical topographic maps provided by EDR for the years 1894, 1909, 1941 1947, 1952, 1953, 1968, 1975, 1979, 1980, 2012, 2015, 2018, 2021, and 2022 (Appendix D). The following table summarizes our observations of the Project Study Area and adjoining and adjacent properties on the historical topographic maps.

Year	Observations	
	Project Study Area	Adjoining and Adjacent Properties
1894 (1:125,000)	An improved road and associated bridge are depicted in the central portion of the Project Study Area. A creek is depicted in the central and eastern portion of the Project Study Area.	Improved roads are depicted in the Project Study Area vicinity. No other land use is depicted in the Project Study Area vicinity.
1909 (1:31,680)	Conditions depicted are similar to those on the 1894 map except the road is depicted as Stockton Road.	Rural residential structures and improved roads are depicted in the Project Study Area vicinity. No other land use is depicted in the Project Study Area vicinity.
1941 (1:62,500)	Conditions depicted are similar to those on the 1909 map except Stockton Road is also depicted as SR 50 and SR 99.	Conditions depicted are similar to those on the 1909 map except Stockton Road is also depicted as SR 50 and SR 99 and continues north and south of the Project Study Area.
1947 (1:50,000)	Conditions depicted are similar to those on the 1941 map.	Conditions depicted are similar to those on the 1941 map.
1952 and 1953 (1:24,000)	Conditions depicted are similar to those on the 1947 map except the creek is labelled as Laguna Creek.	Additional rural residential structures are depicted north, east, and south of the Project Study Area.
1968 (1:62,500)	Conditions depicted are similar to those on the 1952 and 1953 maps except SR 99 replaced Stockton Road. An improved road (parallel to highway) is depicted east and west of SR 99.	Conditions depicted are similar to those on the 1952 and 1953 maps except SR 99 replaced Stockton Road. An improved road (parallel to highway) is depicted east and west of SR 99 and continues north and south of the Project Study Area.
1975 (1:24,000)	Conditions depicted are similar to those on the 1968 map.	Conditions depicted are similar to those on the 1968 map.
1979 and 1980 (1:24,000)	Conditions depicted are similar to those on the 1975 map.	Conditions depicted are similar to those on the 1975 map.
2012 (1:24,000)	Conditions depicted are similar to those on the 1980 map except an improved road is depicted in the western portion of the Project Study Area.	Residential subdivisions are present north, northwest, and southwest of the Project Study Area. SR 99 interchange north and south of the Project Study Area is re-routed.
2015 (1:24,000)	Conditions depicted are similar to those on the 2012 map.	Conditions depicted are similar to those on the 2012 map.
2018 (1:24,000)	Conditions depicted are similar to those on the 2015 map.	Conditions depicted are similar to those on the 2015 map.
2021 and 2022 (1:24,000)	Conditions depicted are similar to those on the 2018 map.	Conditions depicted are similar to those on the 2018 map.

The topographic maps do not depict land uses or development that would suggest the use, storage or disposal/release of hazardous substances and/or petroleum products on the Project Study Area or adjoining or nearby properties. As described in Section 4.1, the former agricultural use of the eastern portion of the Project Study Area is a potential environmental concern.

4.3 City Directories

EDR prepared an abstract of city directories including city, cross reference and telephone directory listings (Appendix E) with information provided for approximate 5-year intervals, if available, from 1971 to 2020.

4.3.1 Offsite Addresses

Commercial and industrial businesses and individual homeowners are listed for adjoining and adjacent properties. None of the business names listed suggest the storage or use of large quantities of hazardous substances or petroleum products sufficient to have caused an REC at the Project Study Area.

5.0 SITE RECONNAISSANCE

This section summarizes our observations of the Project Study Area and surrounding properties made during the reconnaissance.

5.1 Methodology and Limiting Conditions

Cristian Virrueta, Senior Staff Geologist with Geocon, performed the Project Study Area reconnaissance on April 1, 2024, by walking unaccompanied throughout the Project Study Area and along the boundaries to observe Project Study Area features and conditions. He observed adjoining and adjacent properties from the Project Study Area and other public roads. Weather on the day of the Project Study Area reconnaissance was sunny with temperatures in the mid-70s°F. Photographs of various Project Study Area features and offsite properties are appended.

5.2 Project Study Area Setting

The Project Study Area is situated in an area of residential, transportation (East Stockton Boulevard, West Stockton Boulevard, and SR 99), institutional (church), riparian, and undeveloped properties.

5.3 Onsite Survey

The approximate 26-acre Project Study Area comprises portions of the Laguna Creek Bypass Channel and levee (Photos 1 and 2), portions of West and East Stockton Boulevard (Photos 3 through 5), portions of northbound and southbound SR 99 (including a portion of SR 99 off-ramp and shoulders) (Photo 6), portions of the Creekside Christian Church property (Photos 7 through 10), portions of Laguna Creek (Photos 11 and 12), and portions of Whitehouse Creek (Photo 13).

We observed an irrigation water supply well, aboveground storage tank (water), and electrical panel in an offsite area within the eastern portion of the Project Study Area (Photo 14). The well and tank provide water to irrigate a grass recreational field on the eastern portion of the Project Study Area. We observed electrical transmission lines with no mounted transformers (Photo 15) and a natural gas pipeline (Photo 16) along the West Stockton Boulevard bridge (western portion of the Project Study Area).

We observed no evidence of RECs at the Project Study Area.

5.4 Offsite Survey

Proposed property acquisitions and TCEs within the Project Study Area will consist of portions from institutional (church) and undeveloped properties. Adjoining and nearby properties consist of the following:

- North – Single-family residences, continuation of SR 99 and East Stockton Boulevard, and Creekside Christian Church property (Photo 17).
- West – Laguna Creek, riparian corridor (Photo 18), and continuation of West Stockton Boulevard (Photo 19).
- South – Continuation of SR 99, East Stockton Boulevard (Photo 20), and West Stockton Boulevard (Photo 21).
- East – Undeveloped land and single-family residences (Photo 22).

We observed no evidence of RECs on adjoining or adjacent properties.

6.0 CONCLUSIONS AND RECOMMENDATIONS

We have performed an ISA in general conformance with the scope and limitations of ASTM *Designation E 1527-21* of the Project Study Area in Elk Grove, California. Exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

The ISA identified no evidence of RECs in connection with the proposed LCIRT Crossing Project at State Route 99 alignment and planned property acquisitions and TCEs.

The proposed project will require the disturbance of soil along the trail alignment in the eastern portion of the Project Study Area that may contain elevated levels of pesticides and associated metals from former agricultural use. Any excess soil generated from construction excavations should be evaluated for pesticides and associated metals prior to offsite reuse. Shallow soil sampling and analytical testing would be necessary to confirm the presence of pesticide and metal-impacted soil.

The proposed project will also require the disturbance of soil along SR 99 and both East and West Stockton Boulevard shoulders that may contain elevated lead concentrations due to aerially deposited lead (ADL) from historic leaded gasoline emissions. Any excess soil generated from construction excavations should be evaluated for lead content prior to offsite reuse or landfill disposal. In addition, Project Study Area workers should be notified of the potential presence of elevated lead concentrations and adhere to health and safety protocols. Shallow soil sampling and analytical testing would be necessary to confirm the presence of ADL-impacted soil.

If field indicators of apparent contamination (odor, staining, debris, etc.) are encountered in construction excavations, we recommend that the affected area be isolated, and any excavated impacted soil be sampled and analyzed for onsite reuse or offsite disposal by a qualified environmental consultant.

If encountered, undocumented USTs, septic systems, and domestic/agricultural/oil wells should be properly abandoned in accordance with SCEMD permit requirements.

7.0 REFERENCES

- American Society for Testing and Materials, *Designation E 1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, 2021.
- California Department of Water Resources, Sustainable Groundwater Management ACT (SGMA) Data Viewer, <https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels>, accessed April 2024.
- California Geologic Energy Management Division (CalGEM), Oil and gas well information in the site vicinity, <https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>, accessed April 2024.
- California Geological Survey (CGS), *Note 36, California Geomorphic Provinces*, 2002.
- CGS, *Preliminary Geologic Map of the Lodi 30' x 60' Quadrangle, California*, 2009.
- California State Water Resources Board, GeoTracker, <https://geotracker.swrcb.ca.gov/>, accessed April 2024.
- Geomatrix, *Caltrans Initial Site Assessment Guidance Document*, 2006.
- Harden, D.R, *California Geology: 2nd edition*, 2003.
- State of California, Department of Toxic Substances Control (DTSC), EnviroStor website <http://www.envirostor.dtsc.ca.gov/public/>, accessed April 2024.
- United States Department of Agriculture, Natural Resources Conservation Service, <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>, accessed April 2024.
- United States Department of Transportation (USDOT). National Pipeline Mapping System, <https://www.npms.phmsa.dot.gov/default.aspx>, accessed April 2024.
- United States Geological Survey (USGS), *Florin, California, 7.5-minute Topographic Quadrangle Map, Scale 1:24,000*; 2021.

8.0 QUALIFICATIONS

This Phase I ESA report was prepared by Cristian Virrueta and reviewed by John Juhrend, PE, CEG. Mr. Virrueta has a BS and MS degree in Earth Science and five years of experience performing Phase I and Phase II ESAs, subsurface drilling, soil and groundwater sampling, groundwater monitoring well installations, and sampling. He is also responsible for preparation of reports, work plans, health and safety plans, and quarterly groundwater monitoring reports. Mr. Virrueta has performed Phase I and II ESAs on properties throughout California.

Mr. Juhrend has over 40 years of experience in the environmental and geotechnical consulting industry in California and Nevada. Mr. Juhrend is a California Professional Engineer and Certified Engineering Geologist, with a BS degree in engineering geology and MS degree in civil engineering. His personal experience includes the performance of hundreds of environmental projects including Phase I and Phase II site assessments, remedial investigations and feasibility studies, corrective action programs and litigation support. His primary expertise includes environmental assessments of Brownfields properties, industrial, commercial and residential properties, and transportation corridors.

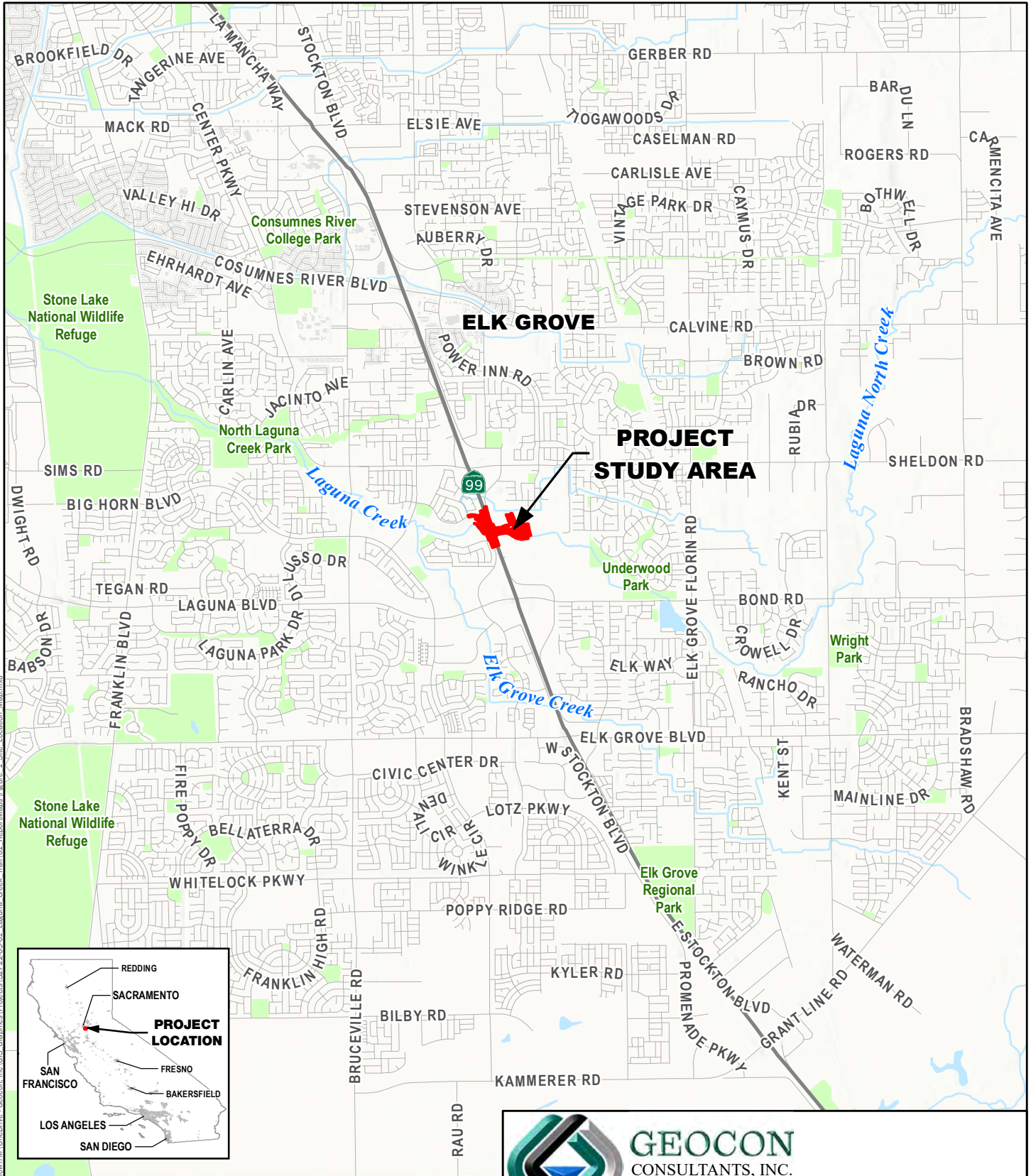
I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries investigation in conformance with the standards and practices set forth in 40 CFR Part 312.



Cristian Virrueta
Senior Staff Geologist



John Juhrend, PE, CEG
Senior Engineer



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

SITE LOCATION MAP










S2722-05-01

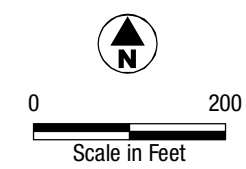
June 2024

Figure 1



GEOCON 6/29/2024 USER: Brown M. OneDrive - Geocon, Inc GIS Graphics Projects S2722-05-01 Laguna Creek Trail 01 Report Maps Figure 2 Site Plan.mxd

- Legend**
-  Site Photograph Location and Orientation
 -  Bridge Columns
 -  Pedestrian Trail Alignment
 -  Pedestrian Overcrossing/Bridge
 -  Fill Limit
 -  Cut Limit (Grading)
 -  Pavement Edges
 -  Creek/River
 -  Approximate Project Study Area Boundary




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Laguna Creek Inter-Regional Trail Crossing Project at SR 99		
Elk Grove, California		
SITE PLAN		
S2722-05-01	June 2024	Figure 2



Photo No. 1 View to the northeast of Laguna Creek Bypass Channel from the western portion of the Project Study Area



Photo No. 2 View to the northwest of concrete-paved levee from the western portion of the Project Study Area

PHOTOS NO. 1 & 2



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PHONE 916.852.9118 - FAX 916.852.9132

Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 3 View to the south of West Stockton Boulevard from the southwestern portion of the Project Study Area



Photo No. 4 View to the northwest of West Stockton Boulevard from the northwestern portion of the Project Study Area

PHOTOS NO. 3 & 4



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PHONE 916.852.9118 - FAX 916.852.9132

Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 5 View to the north of East Stockton Boulevard from the central portion of the Project Study Area



Photo No. 6 View to the west of East Stockton Boulevard beyond which is State Route 99

PHOTOS NO. 5 & 6



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 7 View to the east of Creekside Christian Church parking lot from the central portion of the Project Study Area



Photo No. 8 View to the south of open space from the eastern portion of the Project Study Area

PHOTOS NO. 7 & 8



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Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 9 View to the south of Laguna Creek riparian zone from the eastern portion of the Project Study Area



Photo No. 10 View to the south of Laguna Creek riparian zone from the eastern portion of the Project Study Area

PHOTOS NO. 9 & 10



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 11 View to the east of Laguna Creek from the central portion of the Project Study Area



Photo No. 12 View to the northwest of Laguna Creek from the central portion of the Project Study Area

PHOTOS NO. 11 & 12



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

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June 2024



Photo No. 13 View to the east of Whitehouse Creek from the eastern portion of the Project Study Area



Photo No. 14 Irrigation water supply well and water aboveground storage tank in the offsite area within the eastern portion of the Project Study Area

PHOTOS NO. 13 & 14



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 15 Electrical transmission line along West Stockton Boulevard from the western portion of the Project Study Area



Photo No. 16 Natural gas pipeline along West Stockton Boulevard from the western portion of the Project Study Area

PHOTOS NO. 15 & 16



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 17 View to the northeast of Creekside Christian Church from the central portion of the Project Study Area



Photo No. 18 View to the west of Laguna Creek and riparian zone from the western boundary of the Project Study Area

PHOTOS NO. 17 & 18



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 19 View to the west of the continuation of West Stockton Boulevard from the northwestern boundary of the Project Study Area



Photo No. 20 View to the south of the continuation of East Stockton Boulevard from the southern boundary of the Project Study Area

PHOTOS NO. 19 & 20



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024



Photo No. 21 View to the south of the continuation of West Stockton Boulevard from the southern boundary of the Project Study Area



Photo No. 22 View to the east of undeveloped land beyond which are single-family residences from the eastern boundary of the Project Study Area

PHOTOS NO. 21 & 22



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Laguna Creek Inter-Regional Trail Crossing Project at SR 99

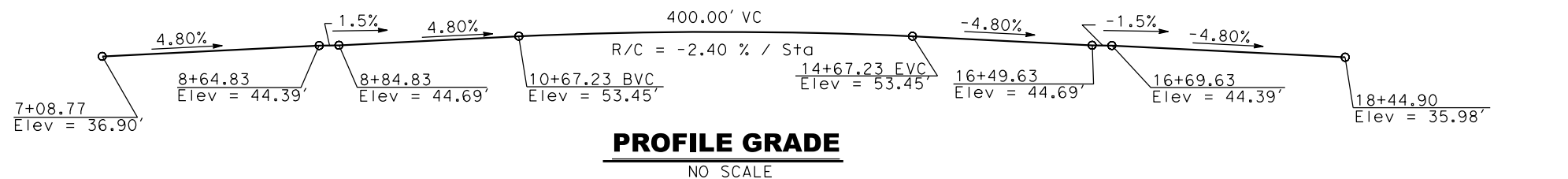
Elk Grove,
California

GEOCON Project No. S2722-05-01

June 2024

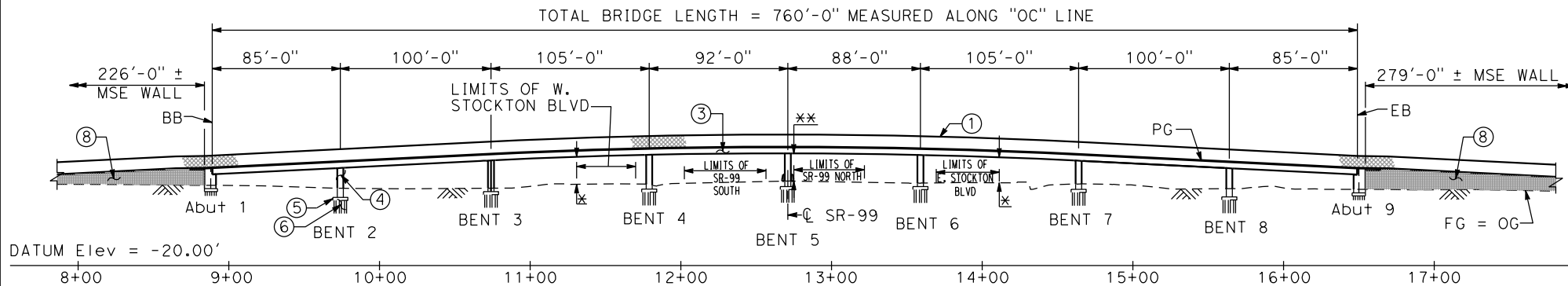
APPENDIX

A



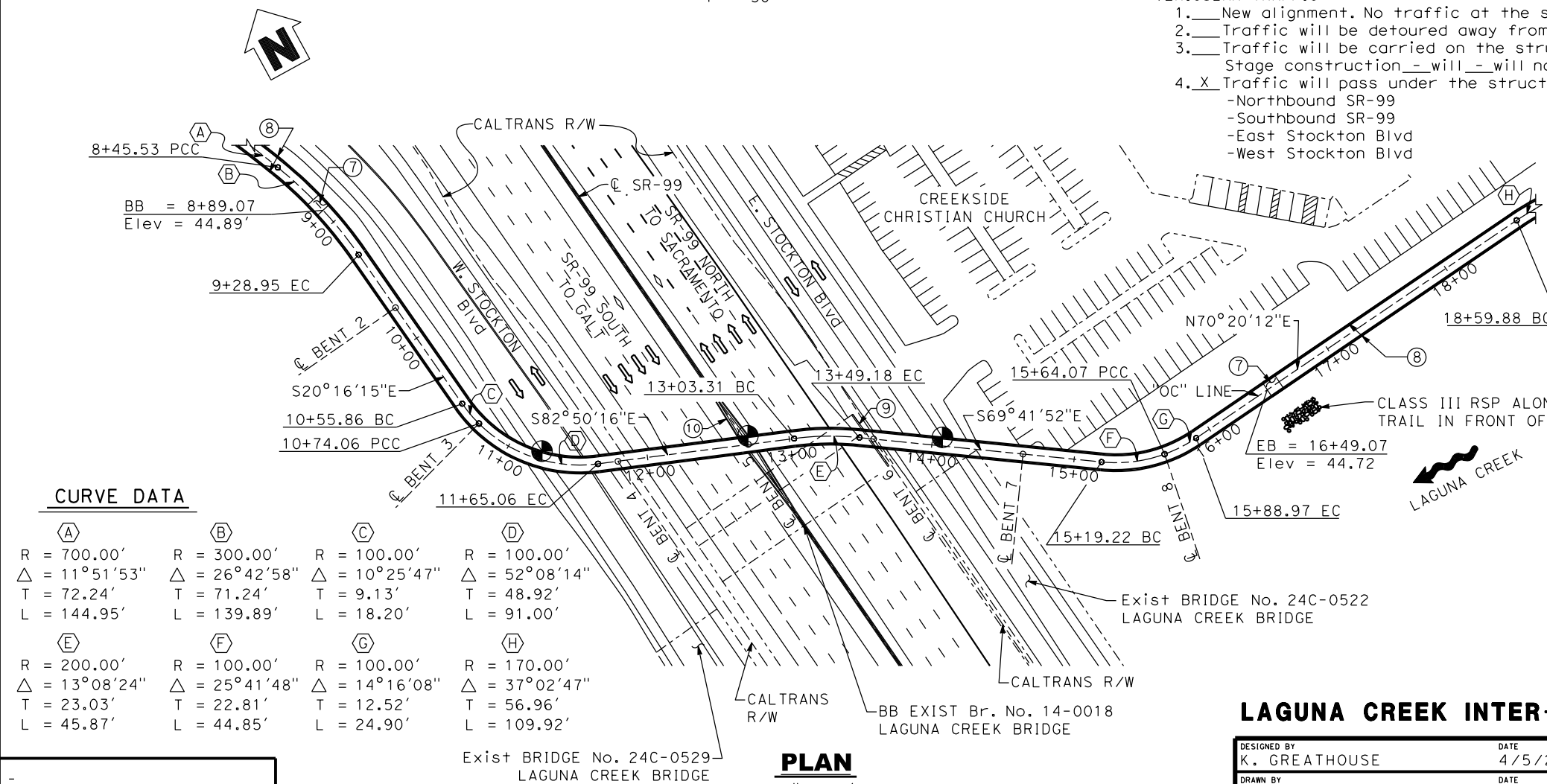
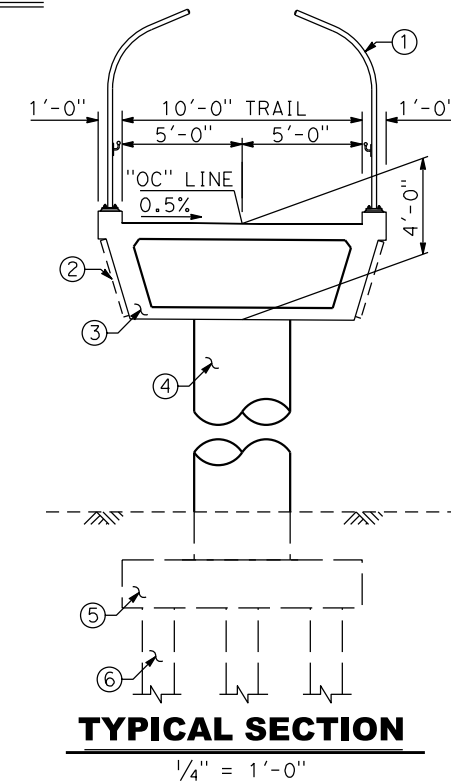
DATE OF ESTIMATE	=	2/5/24
STRUCTURE DEPTH	=	4'-0"
LENGTH	=	760'-0"
WIDTH	=	12'-0"
AREA	=	9,120
COST/ SQ FT INCLUDING 10% mobilization & 25% CONTINGENCY	=	\$699
TOTAL COST	=	\$6,375,000

Dist	COUNTY	ROUTE	POST MILE
03	SAC	99	14.3/14.4
CITY OF ELK GROVE 8401 LAGUNA PALMS WAY ELK GROVE, CA 95758			
DOKKEN ENGINEERING 110 BLUE RAVINE ROAD, SUITE 200 FOLSOM, CA 95630			



TRAFFIC NOTES

- VEHICULAR TRAFFIC:
1. New alignment. No traffic at the site.
 2. Traffic will be detoured away from the site.
 3. Traffic will be carried on the structure. Stage construction will not be required.
 4. X Traffic will pass under the structure on:
 - Northbound SR-99
 - Southbound SR-99
 - East Stockton Blvd
 - West Stockton Blvd



CURVE DATA

A	B	C	D
R = 700.00'	R = 300.00'	R = 100.00'	R = 100.00'
Δ = 11°51'53"	Δ = 26°42'58"	Δ = 10°25'47"	Δ = 52°08'14"
T = 72.24'	T = 71.24'	T = 9.13'	T = 48.92'
L = 144.95'	L = 139.89'	L = 18.20'	L = 91.00'
E	F	G	H
R = 200.00'	R = 100.00'	R = 100.00'	R = 170.00'
Δ = 13°08'24"	Δ = 25°41'48"	Δ = 14°16'08"	Δ = 37°02'47"
T = 23.03'	T = 22.81'	T = 12.52'	T = 56.96'
L = 45.87'	L = 44.85'	L = 24.90'	L = 109.92'

LEGEND

- ① Chain Link Railing (B11-7)
- ② Architectural Treatment
- ③ CIP P/S Box Girder
- ④ 4'-0"Ø Column
- ⑤ Pile Cap
- ⑥ Pile Class 140 (B2-8)
- ⑦ Structure Approach Type EQ (10) (B9-4)
- ⑧ Mechanically Stabilized Embankment Wall
- ⑨ Extend Concrete Barrier For Bent 6 Column Protection
- ⑩ Type 60MF Barrier For Bent 5 Column Protection
- Point of Minimum Vertical Clearance
- * 17'-0" Minimum Vertical Clearance
- ** 18'-6" Minimum Vertical Clearance

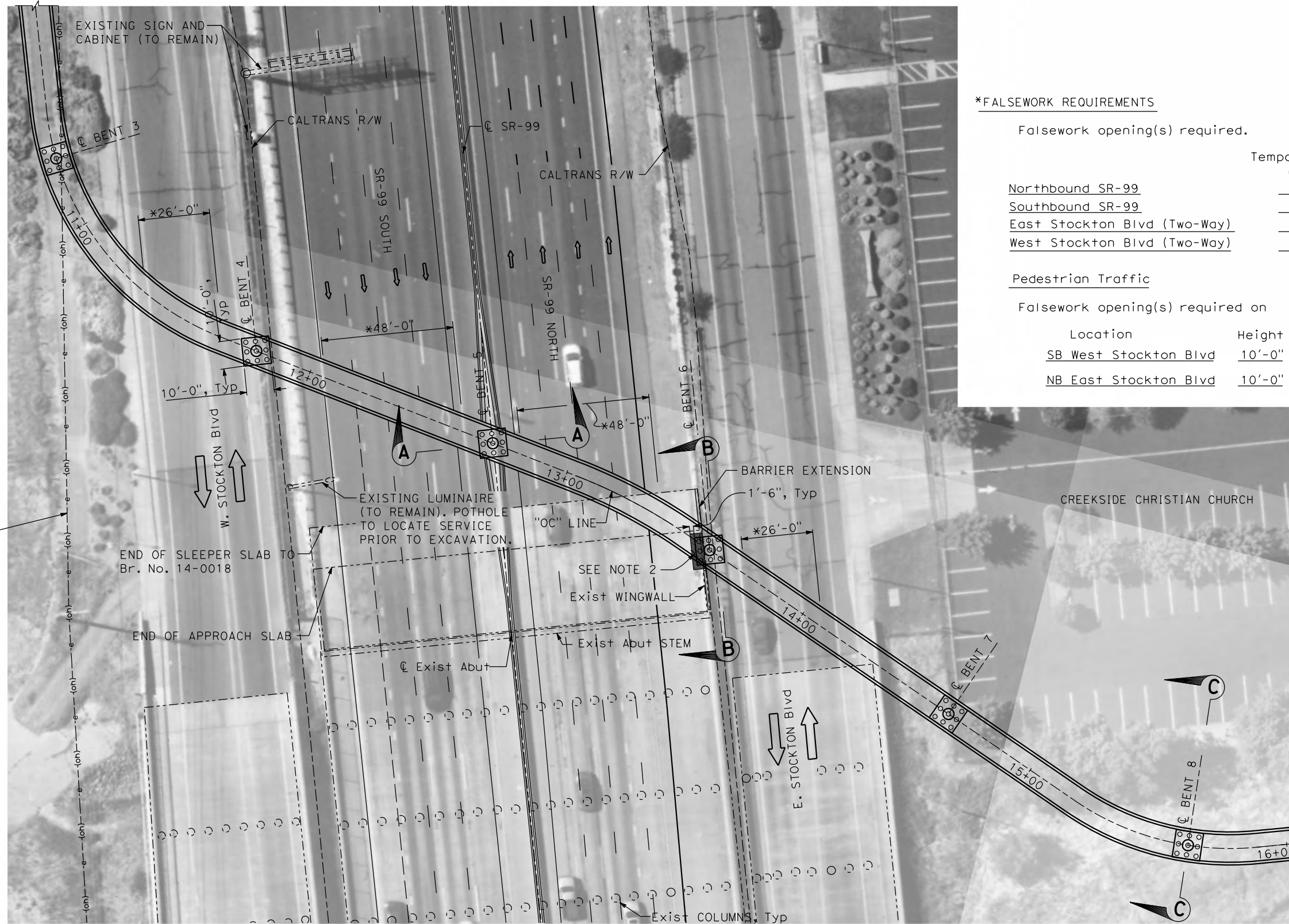
LAGUNA CREEK INTER-REGIONAL TRAIL CROSSING AT STATE ROUTE 99

DESIGNED BY K. GREATHOUSE	DATE 4/5/24
DRAWN BY K. GREATHOUSE	DATE 4/5/24
CHECKED BY J. NOTTNAGEL	DATE 4/5/24
APPROVED R. BURNS	DATE 4/5/24

R. BURNS
PROJECT ENGINEER

PLANNING STUDY 1 OF 5	
SR99 LAGUNA CREEK POC	
BRIDGE No.: TBD	
PROJECT EA: 3J060	PROJECT No. & PHASE: 03220001790

Dist	COUNTY	ROUTE	POST MILE
03	SAC	99	14.3/14.4
CITY OF ELK GROVE 8401 LAGUNA PALMS WAY ELK GROVE, CA 95758			
DOKKEN ENGINEERING 110 BLUE RAVINE ROAD, SUITE 200 FOLSOM, CA 95630			



***FALSEWORK REQUIREMENTS**

Falsework opening(s) required.

	Temporary Vertical Clearance	Width of Traffic Opening
Northbound SR-99	15'-6"	48'-0"
Southbound SR-99	15'-6"	48'-0"
East Stockton Blvd (Two-Way)	15'-6"	26'-0"
West Stockton Blvd (Two-Way)	15'-6"	26'-0"

Pedestrian Traffic

Falsework opening(s) required on SB & NB Stockton Blvd Streets

Location	Height	Width
SB West Stockton Blvd	10'-0"	6'-0"
NB East Stockton Blvd	10'-0"	6'-0"

PLAN
1" = 20'

LAGUNA CREEK INTER-REGIONAL TRAIL CROSSING AT STATE ROUTE 99

NOTES

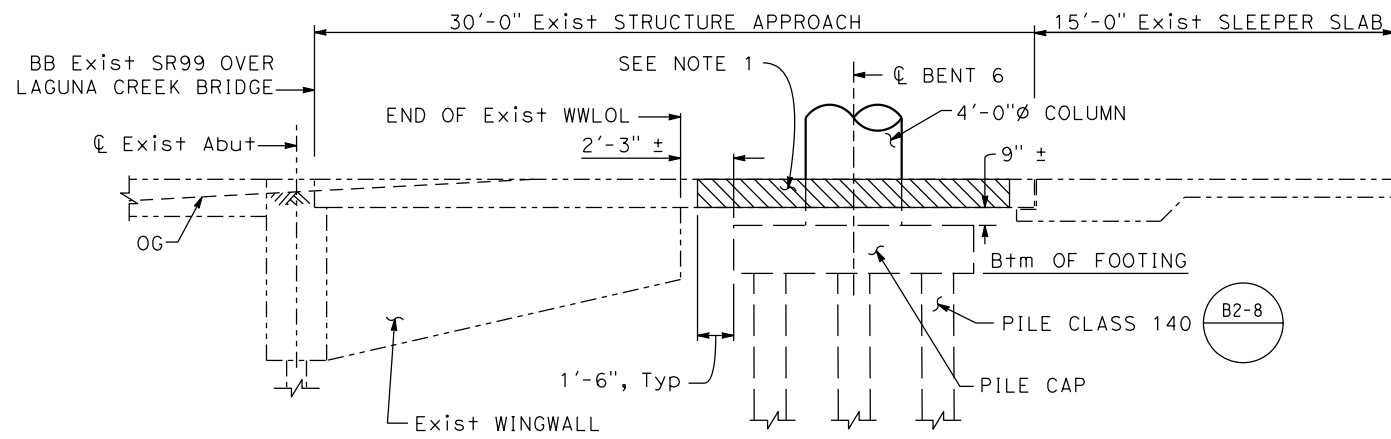
- For details not shown, see APS#3 sheet.
- Remove and reconstruct existing approach slab.

DESIGNED BY K. GREATHOUSE	DATE 4/5/24
DRAWN BY K. GREATHOUSE	DATE 4/5/24
CHECKED BY J. NOTTNAGEL	DATE 4/5/24
APPROVED R. BURNS	DATE 4/5/24

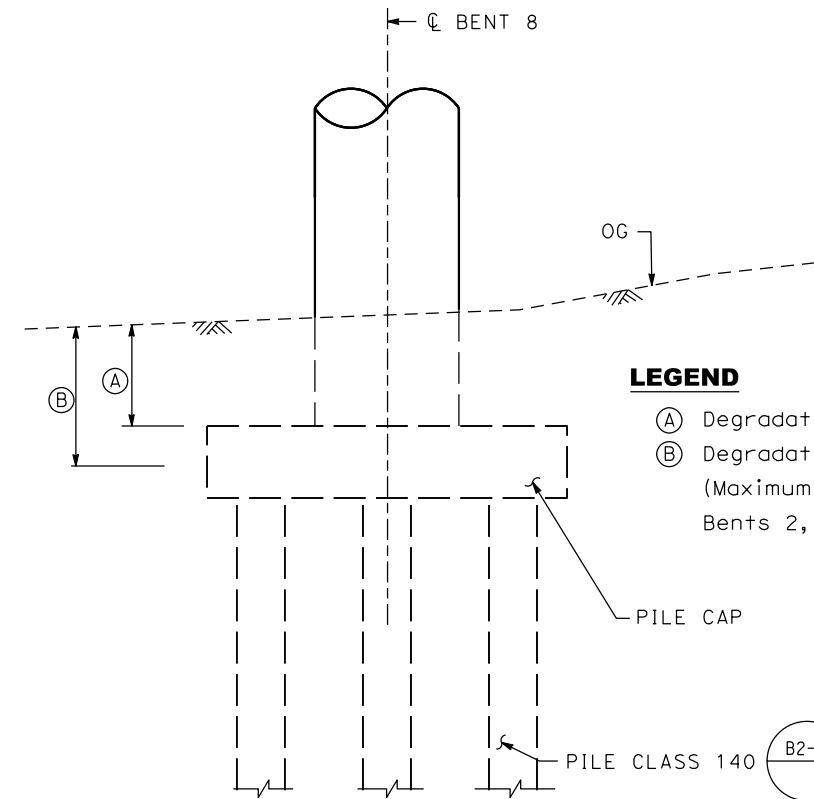
R. BURNS PROJECT ENGINEER

PLANNING STUDY 2 OF 5	
SR99 LAGUNA CREEK POC	
BRIDGE No.: TBD	PROJECT No. & PHASE: 03220001790

Dist	COUNTY	ROUTE	POST MILE
03	SAC	99	14.3/14.4
CITY OF ELK GROVE 8401 LAGUNA PALMS WAY ELK GROVE, CA 95758			
DOKKEN ENGINEERING 110 BLUE RAVINE ROAD, SUITE 200 FOLSOM, CA 95630			

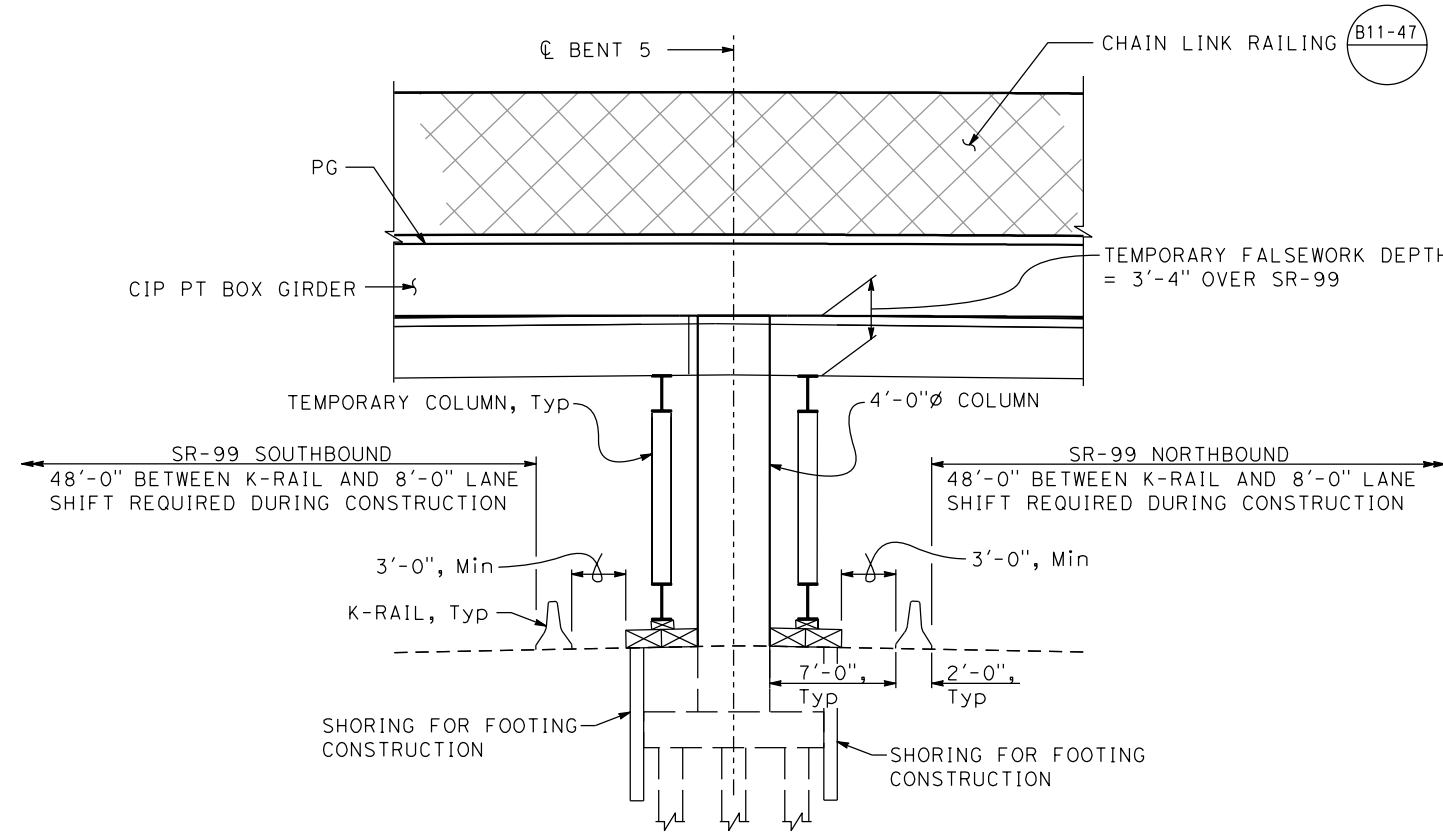


VIEW B-B
1/4" = 1'-0"



SECTION C-C
3/8" = 1'-0"

Typical for all bents in floodplain.



SECTION A-A
3/16" = 1'-0"

For details not shown, see "VIEW B-B" or "SECTION C-C".

LOCATION	Btm OF FOOTING Elev (ft)
Abut 1	29.00
Bent 2	23.00
Bent 3	27.00
Bent 4	28.50
Bent 5	30.00
Bent 6	30.00
Bent 7	28.50
Bent 8	23.50
Abut 9	26.00

NOTES

- Remove and reconstruct existing approach slab.

LAGUNA CREEK INTER-REGIONAL TRAIL CROSSING AT STATE ROUTE 99

DESIGNED BY K. GREATHOUSE	DATE 4/5/24
DRAWN BY K. GREATHOUSE	DATE 4/5/24
CHECKED BY J. NOTTNAGEL	DATE 4/5/24
APPROVED R. BURNS	DATE 4/5/24

R. BURNS PROJECT ENGINEER

PLANNING STUDY 3 OF 5	
SR99 LAGUNA CREEK POC	
BRIDGE No.: TBD	
PROJECT EA: 3J060	PROJECT No. & PHASE: 03220001790

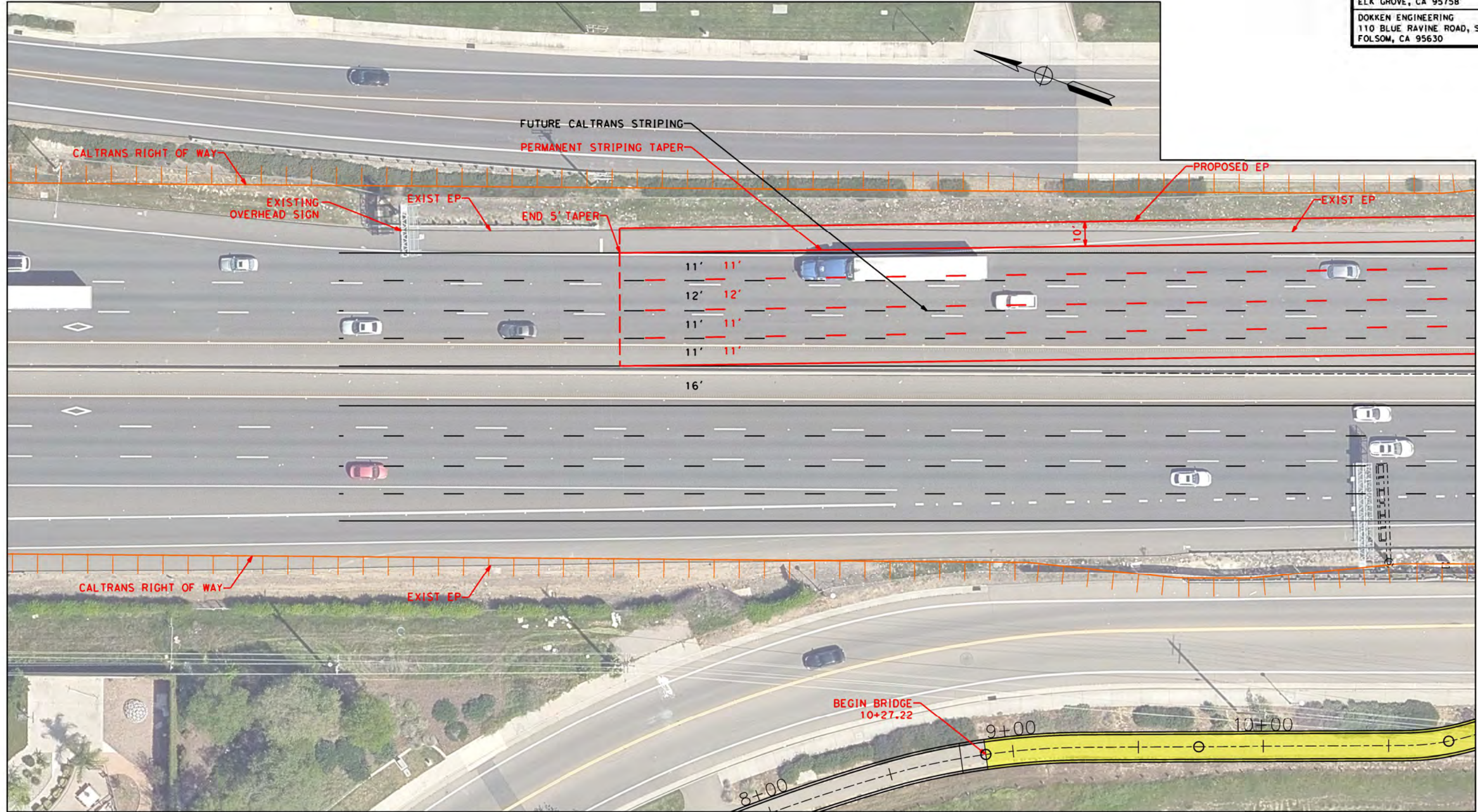
DESIGN OVERSIGHT
SIGN OFF DATE

ADVANCE PLANNING STUDY SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => #DATE
FILE => #REQUEST

TIME PLOTTED => #TIME
USERNAME => #USER

Dist	COUNTY	ROUTE	POST MILE
03	SAC	99	14.3/14.4
CITY OF ELK GROVE 8401 LAGUNA PALMS WAY ELK GROVE, CA 95758			
DOKKEN ENGINEERING 110 BLUE RAVINE ROAD, SUITE 200 FOLSOM, CA 95630			



MATCH LINE SEE NEXT SHEET PO-2

DESIGN OVERSIGHT
SIGN OFF DATE

ADVANCE PLANNING STUDY SHEET
(ENGLISH) (REVISION 8/16/2021)

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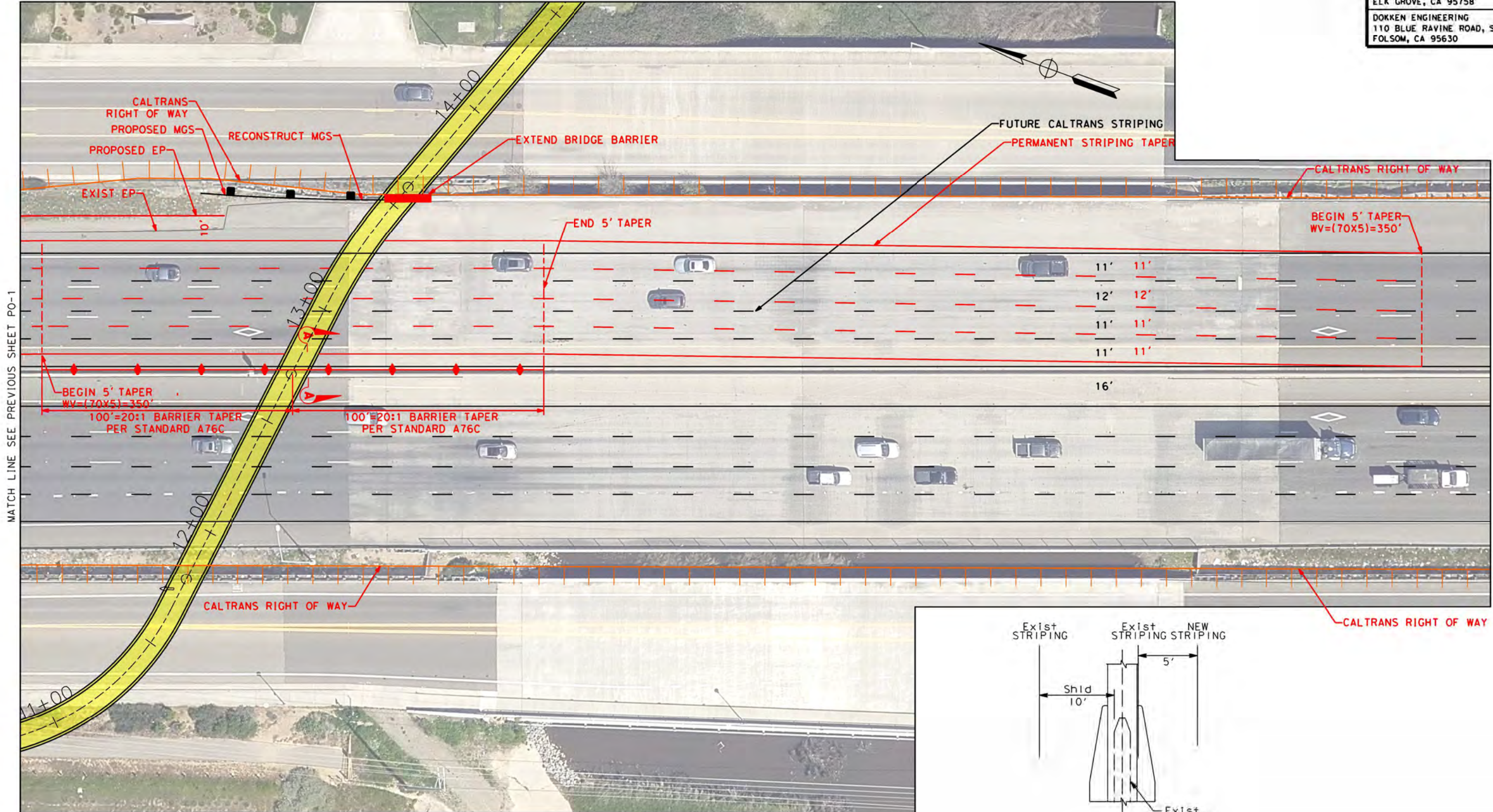
TIME PLOTTED => #TIME
USERNAME => #USER

DESIGNED BY K. GREATHOUSE	DATE 4/5/24
DRAWN BY K. GREATHOUSE	DATE 4/5/24
CHECKED BY J. NOTTNAGEL	DATE 4/5/24
APPROVED R. BURNS	DATE 4/5/24

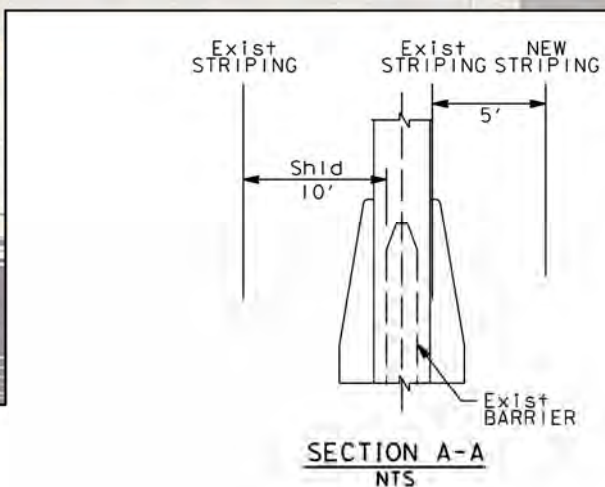
R. BURNS
PROJECT ENGINEER

PLANNING STUDY 4 OF 5	
SR99 LAGUNA CREEK POC	
BRIDGE No.: TBD	
PROJECT EA: 3J060	PROJECT No. & PHASE: 03220001790

Dist	COUNTY	ROUTE	POST MILE
03	SAC	99	14.3/14.4
CITY OF ELK GROVE 8401 LAGUNA PALMS WAY ELK GROVE, CA 95758			
DOKKEN ENGINEERING 110 BLUE RAVINE ROAD, SUITE 200 FOLSOM, CA 95630			



MATCH LINE SEE PREVIOUS SHEET PO-1



DESIGN OVERSIGHT
SIGN OFF DATE

ADVANCE PLANNING STUDY SHEET
(ENGLISH) (REVISION 8/16/2021)

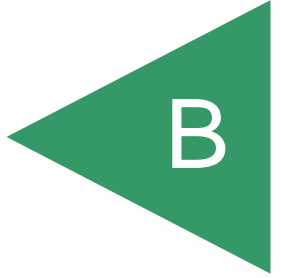
DATE PLOTTED => #DATE
FILE => #REQUEST
TIME PLOTTED => #TIME
USERNAME => #USER

DESIGNED BY K. GREATHOUSE	DATE 4/5/24
DRAWN BY K. GREATHOUSE	DATE 4/5/24
CHECKED BY J. NOTTNAGEL	DATE 4/5/24
APPROVED R. BURNS	DATE 4/5/24

R. BURNS
PROJECT ENGINEER

PLANNING STUDY 5 OF 5	
SR99 LAGUNA CREEK POC	
BRIDGE No.: TBD	PROJECT EA: 3J060
PROJECT No. & PHASE: 03220001790	

APPENDIX



Laguna Creek Trail

Laguna Creek

Elk Grove, CA 95758

Inquiry Number: 7597395.2s

March 16, 2024

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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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 (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

LAGUNA CREEK
ELK GROVE, CA 95758

COORDINATES

Latitude (North): 38.4312200 - 38° 25' 52.39"
Longitude (West): 121.3989800 - 121° 23' 56.32"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 639745.9
UTM Y (Meters): 4254668.5
Elevation: 28 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 50005930 FLORIN, CA
Version Date: 2021

East Map: 50006786 ELK GROVE, CA
Version Date: 2022

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20200617
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
LAGUNA CREEK
ELK GROVE, CA 95758

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	BSB TRUCKING INC.	LAT/LONG_USED	HWTS, HAZNET	Higher	1 ft.
A2	WELL 74 - STOCKTON (PFAS	Higher	512, 0.097, SSE
A3	MSA: W STOCKTON BLVD	9085 W STOCKTON BLVD	Sacramento Co. ML, CERS	Higher	596, 0.113, SSE
B4	BEST BUY #0349	9131 W STOCKTON BLVD	CERS HAZ WASTE, CHMIRS, Sacramento Co. ML	Higher	1169, 0.221, South
B5	BEST BUY STORE #349	9131 W STOCKTON BLVD	RCRA NonGen / NLR	Higher	1169, 0.221, South
C6	LAGUNA BOND DENTAL G	9141 E STOCKTON BLVD	RCRA NonGen / NLR	Higher	1276, 0.242, SSE
C7	FOUR SEASONS CLEANER	9141 E STOCKTON BLVD	Sacramento Co. CS	Higher	1276, 0.242, SSE
C8	LAGUNA BOND DENTAL G	9141 E STOCKTON BLVD	Sacramento Co. ML	Higher	1276, 0.242, SSE
C9	FOUR SEASONS CLEANER	9141 EAST STOCKTON B	CPS-SLIC, CERS	Higher	1276, 0.242, SSE
C10	LAGUNA VILLAGE CLEAN	9141 E STOCKTON BLVD	RCRA NonGen / NLR	Higher	1276, 0.242, SSE
C11	FOUR SEASONS DRY CLE	9141 E STOCKTON BLVD	RCRA-SQG, FINDS, ECHO	Higher	1276, 0.242, SSE
C12	GARY K CHOW, DDS	9141 E STOCKTON BL	Sacramento Co. ML	Higher	1276, 0.242, SSE
C13	FOUR SEASONS CLEANER	9141 E STOCKTON BLVD	DRYCLEANERS, HWTS, HAZNET, Sacramento Co. ML	Higher	1276, 0.242, SSE
D14	STOCKMEN SUPPLY CO	8821 E STOCKTON BLVD	Sacramento Co. CS, Sacramento Co. ML	Higher	2072, 0.392, North
D15	CENTURY EQUIPMENT	8821 STOCKTON BLVD E	LUST, Cortese, HIST CORTESE, Sacramento Co. ML,...	Higher	2072, 0.392, North
D16	CENTURY EQUIPMENT	8821 STOCKTON BLVD E	UST FINDER RELEASE	Higher	2072, 0.392, North
17	DOLLAR TREE #03447	8126 SHELDON RD	SWRCY, CERS HAZ WASTE, HWTS, HAZNET, CERS	Lower	2223, 0.421, NW
E18	OBIE'S DUMP	8437 SHELDON ROAD	ENVIROSTOR, CPS-SLIC, VCP, LIENS	Higher	2328, 0.441, NNE
E19	OBIE'S DUMP	8437 SHELDON ROAD	SWF/LF, CERS	Higher	2328, 0.441, NNE
20	KALWANI PROPERTY	8151 SHELDON ROAD	ENVIROSTOR, Sacramento Co. CS, VCP	Higher	2368, 0.448, NW
21	ARCADIAN VILLAGE ELE	SHELDON ROAD/POWER I	ENVIROSTOR, SCH	Higher	3539, 0.670, NNE
22	LAGUNA STONELAKE ELE	LOT F/LAGUNA STONELA	ENVIROSTOR, SCH	Higher	4042, 0.766, SW

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

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large 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

EXECUTIVE SUMMARY

US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing

UST..... Active UST Facilities

AST..... Aboveground Petroleum Storage Tank Facilities

INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfields 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

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

Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST..... SWEEPS UST Listing

EXECUTIVE SUMMARY

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
MINES MRDS..... Mineral Resources Data System
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites

EXECUTIVE SUMMARY

ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
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
HAZMAT	Hazardous Material Facilities
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)
UST FINDER	UST Finder Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
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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

Lists of Federal RCRA generators

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/04/2023 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FOUR SEASONS DRY CLE</i> EPA ID:: CA0000472092	<i>9141 E STOCKTON BLVD</i>	<i>SSE 1/8 - 1/4 (0.242 mi.)</i>	<i>C11</i>	<i>34</i>

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies 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,

EXECUTIVE SUMMARY

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.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/23/2023 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OBIE'S DUMP Status: Active Facility Id: 60001365	8437 SHELDON ROAD	NNE 1/4 - 1/2 (0.441 mi.)	E18	127
KALWANI PROPERTY Status: No Further Action Facility Id: 34880001	8151 SHELDON ROAD	NW 1/4 - 1/2 (0.448 mi.)	20	139
ARCADIAN VILLAGE ELE Status: No Action Required Facility Id: 34010012	SHELDON ROAD/POWER I	NNE 1/2 - 1 (0.670 mi.)	21	142
LAGUNA STONELAKE ELE Status: No Action Required Facility Id: 34010006	LOT F/LAGUNA STONELA	SW 1/2 - 1 (0.766 mi.)	22	145

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OBIE'S DUMP Database: SWF/LF (SWIS), Date of Government Version: 11/06/2023 Facility ID: 34-CR-5007 Operational Status: Closed Regulation Status: Unpermitted	8437 SHELDON ROAD	NNE 1/4 - 1/2 (0.441 mi.)	E19	136

Lists of state and tribal leaking storage tanks

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 is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CENTURY EQUIPMENT Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 5, Date of Government Version: 07/01/2008	8821 STOCKTON BLVD E	N 1/4 - 1/2 (0.392 mi.)	D15	54

EXECUTIVE SUMMARY

Status: Case Closed
 Status: Completed - Case Closed
 Global Id: T0606700972

CPS-SLIC: 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.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FOUR SEASONS CLEANER Database: CPS-SLIC, Date of Government Version: 12/04/2023 Facility Status: Completed - Case Closed Global Id: T10000001231	9141 EAST STOCKTON B	SSE 1/8 - 1/4 (0.242 mi.)	C9	31
OBIE'S DUMP Database: SLIC REG 5, Date of Government Version: 04/01/2005 Database: CPS-SLIC, Date of Government Version: 12/04/2023 Facility Status: Open - Inactive Global Id: SL0606728284	8437 SHELDON ROAD	NNE 1/4 - 1/2 (0.441 mi.)	E18	127

Sacramento Co. CS: List of sites where unauthorized releases of potentially hazardous materials have occurred.

A review of the Sacramento Co. CS list, as provided by EDR, and dated 11/07/2022 has revealed that there are 3 Sacramento Co. CS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FOUR SEASONS CLEANER Facility Id: RO0001662	9141 E STOCKTON BLVD	SSE 1/8 - 1/4 (0.242 mi.)	C7	30
STOCKMEN SUPPLY CO Facility Id: RO0001087 Date Closed: 07/26/2000	8821 E STOCKTON BLVD	N 1/4 - 1/2 (0.392 mi.)	D14	54
KALWANI PROPERTY Facility Id: RO0001057	8151 SHELDON ROAD	NW 1/4 - 1/2 (0.448 mi.)	20	139

Lists of state and tribal voluntary cleanup sites

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 10/23/2023 has revealed that there are 2 VCP sites within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OBIE'S DUMP Status: Active Facility Id: 60001365	8437 SHELDON ROAD	NNE 1/4 - 1/2 (0.441 mi.)	E18	127
KALWANI PROPERTY Status: No Further Action Facility Id: 34880001	8151 SHELDON ROAD	NW 1/4 - 1/2 (0.448 mi.)	20	139

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 11/29/2023 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DOLLAR TREE #03447 Cert Id: RC251573.001	8126 SHELDON RD	NW 1/4 - 1/2 (0.421 mi.)	17	58

Local Lists of Hazardous waste / Contaminated Sites

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.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/16/2023 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BEST BUY #0349	9131 W STOCKTON BLVD	S 1/8 - 1/4 (0.221 mi.)	B4	21

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 12/04/2023 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BEST BUY STORE #349	9131 W STOCKTON BLVD	S 1/8 - 1/4 (0.221 mi.)	B5	25

EXECUTIVE SUMMARY

EPA ID:: CAL000426015				
LAGUNA BOND DENTAL G EPA ID:: CAL000148755	9141 E STOCKTON BLVD	SSE 1/8 - 1/4 (0.242 mi.)	C6	27
LAGUNA VILLAGE CLEAN EPA ID:: CAL000337355	9141 E STOCKTON BLVD	SSE 1/8 - 1/4 (0.242 mi.)	C10	32

PFAS: A listing of PFAS contaminated sites included in the GeoTracker database.

A review of the PFAS list, as provided by EDR, and dated 11/30/2023 has revealed that there is 1 PFAS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WELL 74 - STOCKTON (SSE 0 - 1/8 (0.097 mi.)	A2	10

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 (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 12/13/2023 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CENTURY EQUIPMENT Cleanup Status: COMPLETED - CASE CLOSED	8821 STOCKTON BLVD E	N 1/4 - 1/2 (0.392 mi.)	D15	54

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FOUR SEASONS CLEANER Database: DRYCLEANERS, Date of Government Version: 08/31/2023 Database: DRYCLEAN SACRAMENTO METO DIST, Date of Government Version: 08/15/2023 EPA Id: CAL000145543 EPA Id: CAL000337355	9141 E STOCKTON BLVD	SSE 1/8 - 1/4 (0.242 mi.)	C13	38

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 [CAL SITES]. 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 is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CENTURY EQUIPMENT	8821 STOCKTON BLVD E	N 1/4 - 1/2 (0.392 mi.)	D15	54

EXECUTIVE SUMMARY

Reg Id: 341147

HWTS: DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

A review of the HWTS list, as provided by EDR, and dated 10/26/2023 has revealed that there is 1 HWTS site within approximately 0.001 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BSB TRUCKING INC.	LAT/LONG_USED	0 - 1/8 (0.000 mi.)	1	9

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2021 has revealed that there is 1 HAZNET site within approximately 0.001 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BSB TRUCKING INC. GEPAID: CAC003145777	LAT/LONG_USED	0 - 1/8 (0.000 mi.)	1	9

Sacramento Co. ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 11/07/2022 has revealed that there are 5 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MSA: W STOCKTON BLVD	9085 W STOCKTON BLVD	SSE 0 - 1/8 (0.113 mi.)	A3	18
BEST BUY #0349	9131 W STOCKTON BLVD	S 1/8 - 1/4 (0.221 mi.)	B4	21
LAGUNA BOND DENTAL G	9141 E STOCKTON BLVD	SSE 1/8 - 1/4 (0.242 mi.)	C8	30
GARY K CHOW, DDS	9141 E STOCKTON BL	SSE 1/8 - 1/4 (0.242 mi.)	C12	37
Facility Status: Inactive. Included on a listing no longer updated.				
FOUR SEASONS CLEANER	9141 E STOCKTON BLVD	SSE 1/8 - 1/4 (0.242 mi.)	C13	38

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that

EXECUTIVE SUMMARY

there is 1 UST FINDER RELEASE site within approximately 0.5 miles of the target property.

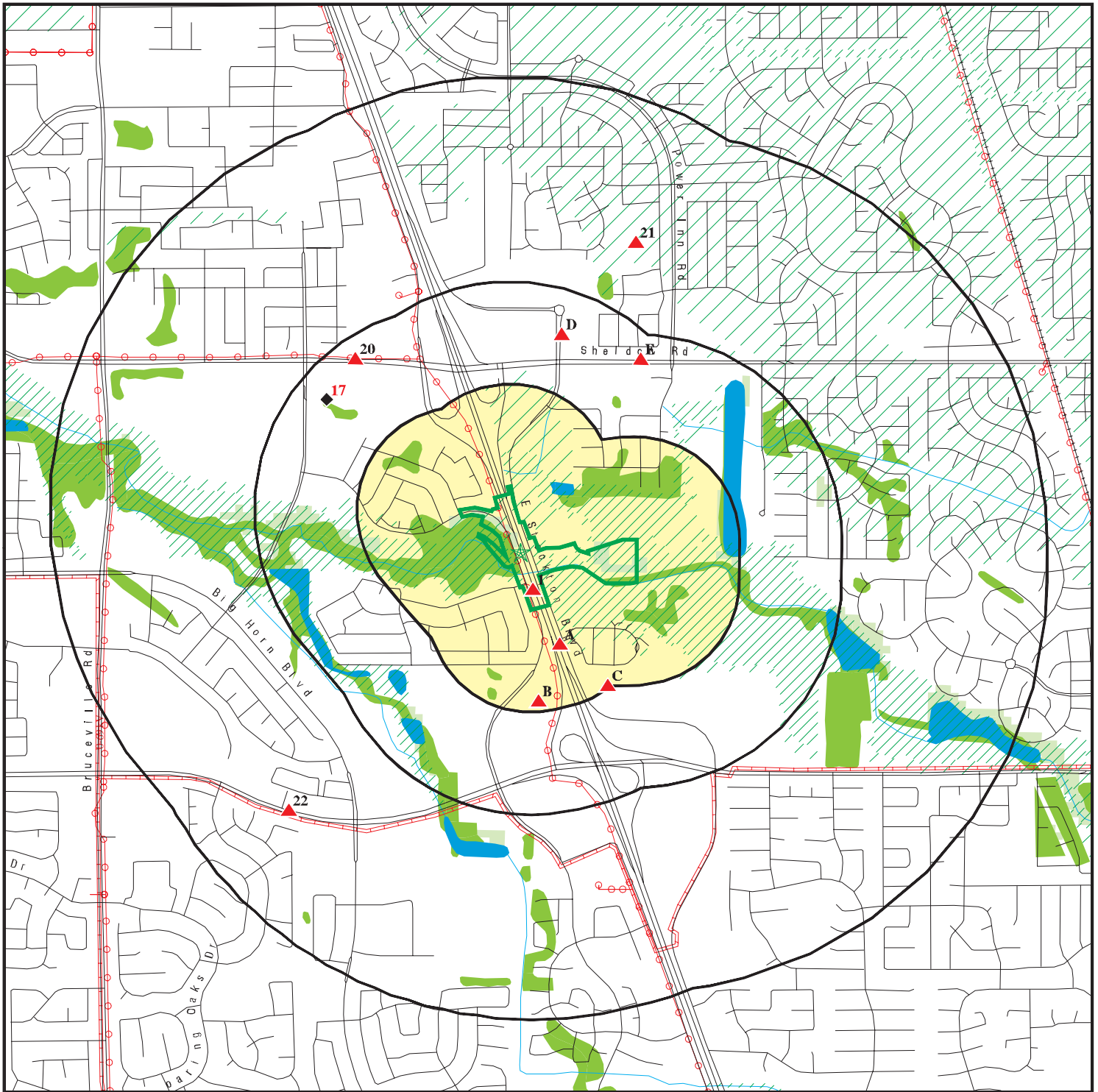
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CENTURY EQUIPMENT	8821 STOCKTON BLVD E	N 1/4 - 1/2 (0.392 mi.)	D16	58

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 8 records.

<u>Site Name</u>	<u>Database(s)</u>
W STOCKTON BLVD BRIDGE REPLACEMENT	CIWQS
LAGUNA CREEK	CIWQS
LAGUNA CREEK DR	CIWQS
LOWER LAGUNA CREEK	CIWQS
14TH AVE LANDFILL- EAST PIT	CPS-SLIC
GEORGIA-PACIFIC CHEMICAL CO	Sacramento Co. CS
PRICE CO/DWR - RETENTION POND	Sacramento Co. CS
FRANKLIN FIELD COUNTY AIRPORT	ENVIROSTOR

OVERVIEW MAP - 7597395.2S



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

Indian Reservations BIA

Power transmission lines

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

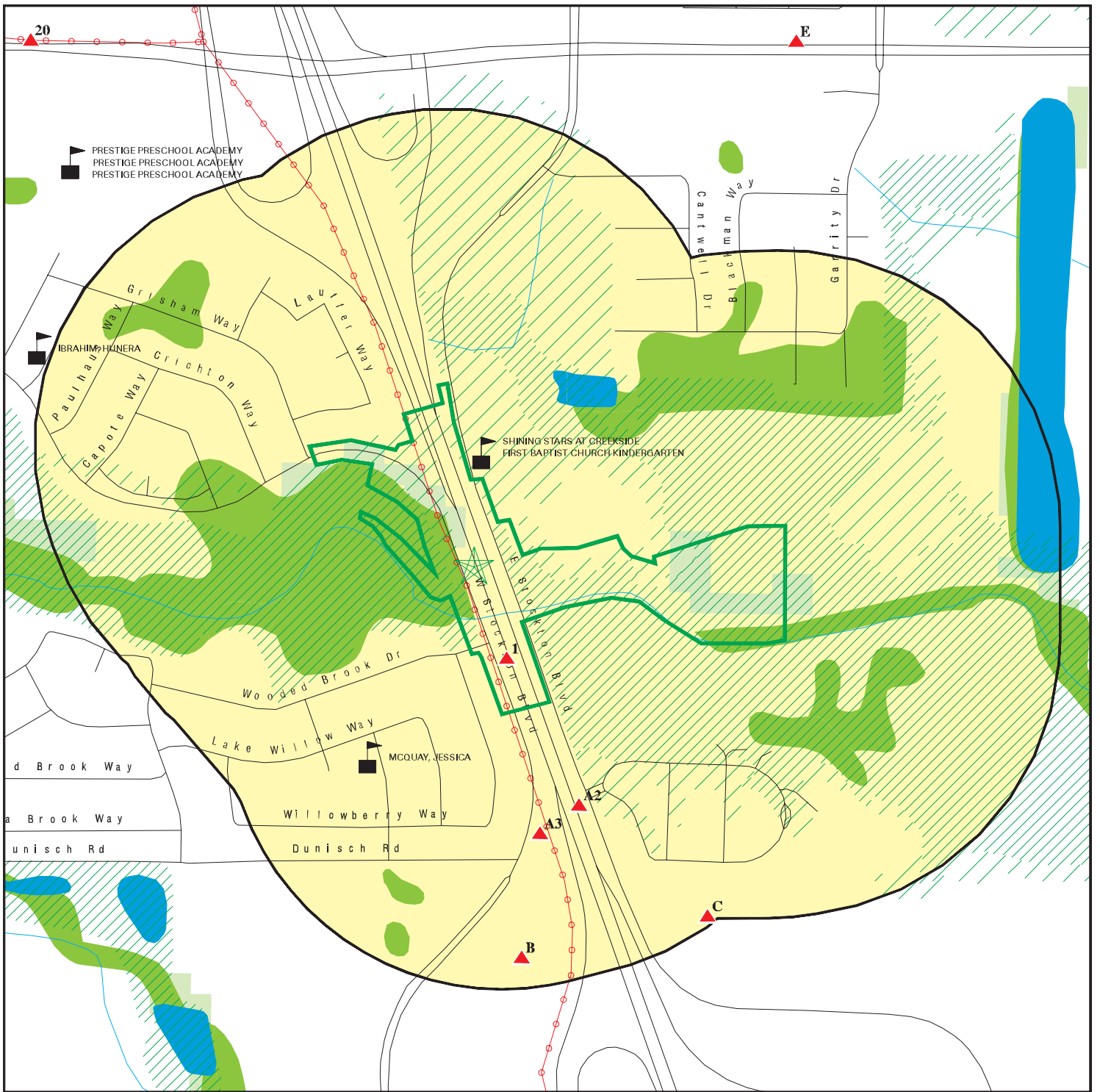
















This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Laguna Creek Trail
 ADDRESS: Laguna Creek
 Elk Grove CA 95758
 LAT/LONG: 38.43122 / 121.39898

CLIENT: Geocon Consultants, Inc.
 CONTACT: Cristian Virrueta
 INQUIRY #: 7597395.2s
 DATE: March 16, 2024 1:42 am

DETAIL MAP - 7597395.2S



-  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
-  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

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: Laguna Creek Trail
 ADDRESS: Laguna Creek
 Elk Grove CA 95758
 LAT/LONG: 38.43122 / 121.39898

CLIENT: Geocon Consultants, Inc.
 CONTACT: Cristian Virrueta
 INQUIRY #: 7597395.2s
 DATE: March 16, 2024 1:47 am

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								
<i>Lists of Federal NPL (Superfund) sites</i>								
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
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>Lists of state- and tribal (Superfund) equivalent sites</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
ENVIROSTOR	1.000		0	0	2	2	NR	4
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	1	NR	NR	1

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
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	1	1	NR	NR	2
Sacramento Co. CS	0.500		0	1	2	NR	NR	3
<i>Lists of state and tribal registered storage tanks</i>								
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
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	2	NR	NR	2
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
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
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
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	1	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
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

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
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
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		0	3	NR	NR	NR	3
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
MINES MRDS	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
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	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
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
PFAS	0.250		1	0	NR	NR	NR	1
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	1	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	1	NR	NR	NR	1
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
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	1	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.001		1	NR	NR	NR	NR	1
HAZNET	0.001		1	NR	NR	NR	NR	1
MINES	0.250		0	0	NR	NR	NR	0
Sacramento Co. ML	0.250		1	4	NR	NR	NR	5
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
HAZMAT	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

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
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	1	NR	NR	1
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
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
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	4	12	13	2	0	31

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A2
SSE
< 1/8
0.097 mi.
512 ft.

WELL 74 - STOCKTON (PARK MEADOWS)
SACRAMENTO, CA
Site 1 of 2 in cluster A

PFAS S127521954
N/A

Relative:
Higher
Actual:
32 ft.

PFAS:
Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: PFDOA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: PFOA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: 11CIPF3OUDS
Qualifier: <

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: NMEFOSAA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: 9CIPF3ONS
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

Site History: Not reported
Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: PFNDCA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: PFTEDA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: PFTRIDA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: PFOS
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

Chemical: PFHXA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Name: WELL 74 - STOCKTON (PARK MEADOWS)
Address: Not reported
City,State,Zip: SACRAMENTO, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603410029
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: CA3410029_029_029
Matrix: Liquid
Chemical: HFPA-DA
Qualifier: <
Value: 3
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 2/13/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 38.428056
Longitude: -121.397222
Geo Tracker URL: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELL 74 - STOCKTON (PARK MEADOWS) (Continued)

S127521954

[Click this hyperlink](#) while viewing on your computer to access 8 additional CA PFAS: record(s) in the EDR Site Report.

A3
SSE
< 1/8
0.113 mi.
596 ft.

MSA: W STOCKTON BLVD WELL (W74)
9085 W STOCKTON BLVD
ELK GROVE, CA 95758

Sacramento Co. ML
CERS

S121787004
N/A

Site 2 of 2 in cluster A

Relative:
Higher
Actual:
32 ft.

Sacramento Co. ML:
Name: MSA: W STOCKTON BLVD WELL (W74)
Address: 9085 W STOCKTON BLVD
City,State,Zip: ELK GROVE, CA 95758
Facility Id: Not reported
Facility Status: Not reported
FD: Not reported
Billing Codes BP: A
Billing Codes UST: Not reported
WG Bill Code: Not reported
Target Property Bill Cod: Not reported
Food Bill Code: Not reported
CUPA Permit Date: Not reported
HAZMAT Permit Date: Not reported
HAZMAT Inspection Date: Not reported
Hazmat Date BP Received: Not reported
UST Permit Dt: Not reported
UST Inspection Date: Not reported
UST Tank Test Date: Not reported
Number of Tanks: Not reported
UST Tank Test Date: Not reported
SIC Code: Not reported
Tier Permitting: Not reported
AST Bill Code: Not reported
CALARP Bill Code: Not reported

CERS:
Name: MSA: W STOCKTON BLVD WELL (W74)
Address: 9085 W STOCKTON BLVD
City,State,Zip: ELK GROVE, CA 95758
Site ID: 50538
CERS ID: 10224733
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-23-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were noted at the time of the inspection. Notes: A small leak from the Hydrofluosilicic Acid feed line to the well piping was occurring while on site. A technician came to fix the hose clamp and fitting and was corrected on site. Please add the Assessors parcel number for this facility into CERS = 11613200700000
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,
Eval General Type: Compliance Evaluation Inspection

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MSA: W STOCKTON BLVD WELL (W74) (Continued)

S121787004

Eval Date: 08-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: OBSERVATION/ GUIDANCE - WELL REHABILITATION. Water purveyors that rehabilitate wells, may use hazardous materials that can create effluent waste. This effluent waste may be hazardous. As a generator of this waste, water purveyors are required by law to make a proper waste determination. To make this determination the water purveyor must characterize their waste. For specifics, reference the attached Bulletin dated 2/19/2014. If additional information is required contact this department. HAZARDOUS MATERIALS BUSINESS PLAN NOTIFICATION FOR: ALL FACILITIES. This is an announcement for all Sacramento County located facilities: Any NEW facilities or sites must be registered in the State system for hazardous materials business plans (California Environmental Reporting System - CERS). If already registered in CERS, disregard this announcement. OR For current plans previously submitted in Sacramento County's Portal system, facilities may make updates or corrections [Truncated]
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-14-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed at time of inspection.
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 50538
Facility Name: MSA: W STOCKTON BLVD WELL (W74)
Env Int Type Code: HMBP
Program ID: 10224733
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 38.427685
Longitude: -121.397873

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Darrell Eck
Entity Title: Senior Civil Engineer
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,
Affiliation Type Desc: Parent Corporation
Entity Name: SACRAMENTO COUNTY WATER AGENCY
Entity Title: Not reported
Affiliation Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MSA: W STOCKTON BLVD WELL (W74) (Continued)

S121787004

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Sacramento County Environmental Management Departm
Entity Title: Not reported
Affiliation Address: 11080 WHITE ROCK ROAD, STE. 200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95670
Affiliation Phone: (916) 875-8550,

Affiliation Type Desc: Legal Owner
Entity Name: SACRAMENTO COUNTY WATER AGENCY
Entity Title: Not reported
Affiliation Address: 827 7th ST RM 301
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95814
Affiliation Phone: (916) 874-6851,

Affiliation Type Desc: Operator
Entity Name: SACRAMENTO COUNTY WATER AGENCY
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: (916) 874-6851,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 827 7th ST RM 301
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95814
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: James Sacayanan
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: ,

Affiliation Type Desc: Environmental Contact

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MSA: W STOCKTON BLVD WELL (W74) (Continued)

S121787004

Entity Name: James Sacayanan
Entity Title: Not reported
Affiliation Address: 10151 Florin Rd
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95829
Affiliation Phone: ,

B4
South
1/8-1/4
0.221 mi.
1169 ft.

BEST BUY #0349
9131 W STOCKTON BLVD
ELK GROVE, CA 95758
Site 1 of 2 in cluster B

CERS HAZ WASTE
CHMIRS
Sacramento Co. ML

S105673382
N/A

Relative:
Higher
Actual:
31 ft.

CERS HAZ WASTE:
Name: BEST BUY #0349
Address: 9131 W STOCKTON BLVD
City,State,Zip: ELK GROVE, CA 95758
Site ID: 420776
CERS ID: 10731739
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 420776
Site Name: Best Buy #0349
Violation Date: 03-22-2021
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/13/2021. OBSERVATION: All of the hazardous waste containers located in the hazardous waste accumulation area were observed without the physical state of the waste indicated. CORRECTIVE ACTION: Submit photos to this department demonstrating that the physical state (e.g. solid, liquid, aerosol) of the hazardous waste inside the containers is indicated on the hazardous waste label.
Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-22-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection report emailed to Scott Valentine (scott.valentine@bestbuy.com) due to Covid-19
Eval Division: Sacramento County Env Management Department
Eval Program: HW
Eval Source: CERS,

Coordinates:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST BUY #0349 (Continued)

S105673382

Site ID: 420776
Facility Name: Best Buy #0349
Env Int Type Code: HWG
Program ID: 10731739
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.426040
Longitude: -121.398180

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: Tim Dunn
Entity Title: Not reported
Affiliation Address: 7601 Penn Avenue South B5
Affiliation City: Richfield
Affiliation State: MN
Affiliation Country: Not reported
Affiliation Zip: 55423
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 7601 Penn Avenue South B5
Affiliation City: Richfield
Affiliation State: MN
Affiliation Country: Not reported
Affiliation Zip: 55423
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Pappas Laguna, L.P.
Entity Title: Not reported
Affiliation Address: 5229 Yorkville Place
Affiliation City: Carmichael
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: Not reported
Affiliation Phone: (916) 447-7100,

Affiliation Type Desc: Parent Corporation
Entity Name: Best Buy Co., Inc.
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: ,

Affiliation Type Desc: CUPA District
Entity Name: Sacramento County Environmental Management Departm
Entity Title: Not reported
Affiliation Address: 11080 WHITE ROCK ROAD, STE. 200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST BUY #0349 (Continued)

S105673382

Affiliation Zip: 95670
Affiliation Phone: (916) 875-8550,

Affiliation Type Desc: Legal Owner
Entity Name: Best Buy Co, Inc.
Entity Title: Not reported
Affiliation Address: 7601 Penn Avenue South B5
Affiliation City: Richfield
Affiliation State: MN
Affiliation Country: United States
Affiliation Zip: 55423-3645
Affiliation Phone: (612) 291-3406,

Affiliation Type Desc: Document Preparer
Entity Name: Mily Melendez
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: ,

Affiliation Type Desc: Identification Signer
Entity Name: Tim Dunn
Entity Title: Compliance Sr. Director
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Best Buy #0349
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: (916) 691-9784,

CHMIRS:

Name: Not reported
Address: 9131 WEST STOCKTON BLVD.
City,State,Zip: ELK GROVE, CA
OES Incident Number: 1-3978
OES notification: 07/10/2001
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST BUY #0349 (Continued)

S105673382

Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agency Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Sacramento City HazMat
Incident Date:	7/10/2001 12:00:00 AM
Admin Agency:	Sacramento County Environmental Management Secondary Agency
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Propane
Gallons:	200
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The release occurred when a 500 gal. tank rolled

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BEST BUY #0349 (Continued)

S105673382

off the fork lift being used to move it causing a valve to break. The construction site was evacuated for safety reasons until the release was stopped.

Sacramento Co. ML:

Name:	BEST BUY #0349
Address:	9131 W STOCKTON BLVD
City,State,Zip:	ELK GROVE, CA 95758
Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	I
Billing Codes UST:	Not reported
WG Bill Code:	A
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

B5
South
1/8-1/4
0.221 mi.
1169 ft.

BEST BUY STORE #349
9131 W STOCKTON BLVD
ELK GROVE, CA 95758
Site 2 of 2 in cluster B

RCRA NonGen / NLR **1024859111**
CAL000426015

Relative:
Higher
Actual:
31 ft.

RCRA Listings:	
Date Form Received by Agency:	20170322
Handler Name:	Best Buy Store #349
Handler Address:	9131 W STOCKTON BLVD
Handler City,State,Zip:	ELK GROVE, CA 95758
EPA ID:	CAL000426015
Contact Name:	TIM DUNN
Contact Address:	7601 PENN AVENUE SOUTH
Contact City,State,Zip:	RICHFIELD, MN 55423
Contact Telephone:	612-291-3406
Contact Fax:	952-430-6708
Contact Email:	TIMOTHY.DUNN@BESTBUY.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BEST BUY STORE #349 (Continued)

1024859111

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	7601 PENN AVE S BLDG B5
Mailing City,State,Zip:	RICHFIELD, MN 55423
Owner Name:	Best Buy Co Inc
Owner Type:	Other
Operator Name:	Tim Dunn
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: BEST BUY CO INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7601 PENN AVE S

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BEST BUY STORE #349 (Continued)

1024859111

Owner/Operator City,State,Zip:	RICHFIELD, MN 55423
Owner/Operator Telephone:	612-291-6251
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: TIM DUNN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7601 PENN AVENUE SOUTH
Owner/Operator City,State,Zip:	RICHFIELD, MN 55423
Owner/Operator Telephone:	612-291-3406
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20170322
Handler Name:	BEST BUY STORE #349
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

C6
SSE
1/8-1/4
0.242 mi.
1276 ft.

LAGUNA BOND DENTAL GROUP
9141 E STOCKTON BLVD
ELK GROVE, CA 95624
Site 1 of 8 in cluster C

RCRA NonGen / NLR **1024794514**
CAL000148755

Relative:
Higher
Actual:
34 ft.

RCRA Listings:	
Date Form Received by Agency:	19950126
Handler Name:	Laguna Bond Dental Group
Handler Address:	9141 E STOCKTON BLVD
Handler City,State,Zip:	ELK GROVE, CA 95624-0000
EPA ID:	CAL000148755
Contact Name:	DR GARY CHOW

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LAGUNA BOND DENTAL GROUP (Continued)

1024794514

Contact Address:	9141 E STOCKTON BLVD STE 230
Contact City,State,Zip:	ELK GROVE, CA 95624
Contact Telephone:	000-000-0000
Contact Fax:	000-000-0000
Contact Email:	CHOWMAN@IX.NETCOM.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	9141 E STOCKTON BLVD STE 230
Mailing City,State,Zip:	ELK GROVE, CA 95624-0000
Owner Name:	Dr Gary Chow
Owner Type:	Other
Operator Name:	Dr Gary Chow
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LAGUNA BOND DENTAL GROUP (Continued)

1024794514

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: DR GARY CHOW
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 9141 E STOCKTON BLVD STE 230
Owner/Operator City,State,Zip: ELK GROVE, CA 95624-0000
Owner/Operator Telephone: 000-000-0000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DR GARY CHOW
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 9141 E STOCKTON BLVD STE 230
Owner/Operator City,State,Zip: ELK GROVE, CA 95624
Owner/Operator Telephone: 000-000-0000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19950126
Handler Name: LAGUNA BOND DENTAL GROUP
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 62121
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C9
SSE
1/8-1/4
0.242 mi.
1276 ft.

FOUR SEASONS CLEANERS
9141 EAST STOCKTON BOULEVARD
ELK GROVE, CA 95624

CPS-SLIC **S109604752**
CERS **N/A**

Site 4 of 8 in cluster C

Relative:
Higher
Actual:
34 ft.

CPS-SLIC:
 Name: FOUR SEASONS CLEANERS
 Address: 9141 EAST STOCKTON BOULEVARD
 City,State,Zip: ELK GROVE, CA 95624
 Region: STATE
Facility Status: Completed - Case Closed
 Status Date: 07/23/2010
 Global Id: T10000001231
 Lead Agency: SACRAMENTO COUNTY LOP
 Lead Agency Case Number: C293
 Latitude: 38.45938
 Longitude: -121.405839
 Case Type: Cleanup Program Site
 Case Worker: Not reported
 Local Agency: Not reported
 RB Case Number: Not reported
 File Location: Local Agency
 Potential Media Affected: Aquifer used for drinking water supply, Indoor Air, Soil, Soil Vapor
 Potential Contaminants of Concern: Acetone, Benzene, Tetrachloroethylene (PCE), Toluene
 EPA Region: 9
 Coordinate Source: Manual Entry on Screens
 Cuf Case: NO
 Quantity Released Gallons: Not reported
 Begin Date: 10/28/2008
 Leak Reported Date: 06/01/2009
 How Discovered: Not reported
 How Discovered Description: Phase II Environmental Site Assessment
 Discharge Source: Other
 Discharge Cause: Unknown
 Stop Method: Not reported
 Stop Description: Not reported
 No Further Action Date: 07/23/2010
 CA Water Watershed Name: Valley-American - Morrison Creek - Franklin (519.11)
 Dwr Groundwater Subbasin Name: Sacramento Valley - South American (5-021.65)
 Disadvantaged Community: Not reported
 CA Enviroscreen 3 Score: 56-60%
 CA Enviroscreen 4 Score: 60-65%
 Military DOD Site: No
 Facility Project Subtype: Not reported
 RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5S)
 Site History: A Limited Phase II Environmental Site Assessment (ESA) was conducted at the Site in 2008. The assessment consisted of soil and soil vapor sampling at three locations. Based on the results of the assessment activities, The following was found: Volatile Organic Compounds (VOCs) including PCE were reported as non detect in the soil samples collected and analyzed. PCE was reported in each of the 6 soil vapor samples analyzed. Concentrations of PCE reported exceeded the California Environmental Protection Agency (Cal- EPA) Shallow Soil Gas Human Health Screening Levels (CHHSLs) for both residential and commercial land use (180 micrograms per cubic meter [ug/m3] and 603 ug/m3 respectively). Benzene was reported in 4 of the 6 soil vapor samples analyzed. Reported concentrations of Benzene exceeded the Cal-EPA CHHSL of 36.2 ug/m3 for residential land use in each of the

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109604752

samples, but did not exceed the Cal-EPA CHHSL of 122 ug/m3 for commercial land use. Concentrations of other VOCs detected in the soil vapor samples collected did not exceed the respective established Cal-EPA CHHSLs for residential or commercial land uses. Based on these analytical results, the following was conducted: Additional soil vapor sampling within and outside of the dry cleaning suite to further characterize the lateral and vertical extent of the impacted soil vapor. Upon completion of the additional assessment, perform a human health risk evaluation to estimate the potential risk from vapor intrusion to the occupants of the suite. A grab groundwater sample was also taken. On behalf of Donahue Schriber Realty Group, LP (DSRG), Converse contacted the Sacramento County Environmental Management Department (SCEMD) to inquire if they would accept the Site into the Voluntary Oversight Program (VOP) with the objective of obtaining a No Further Action (NFA) determination for the Site. The SCEMD indicated they would consider accepting the Site into the program only after a review of all completed reports. In addition, SCEMD stated that sampling of the groundwater beneath the Site would be requested if the Site was accepted into the VOP. This work was completed and the HHRA showed low risk to human health and the environment.

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	FOUR SEASONS CLEANERS
Address:	9141 EAST STOCKTON BOULEVARD
City,State,Zip:	ELK GROVE, CA 95624
Site ID:	656248
CERS ID:	T10000001231
CERS Description:	Cleanup Program Site

C10
SSE
1/8-1/4
0.242 mi.
1276 ft.

LAGUNA VILLAGE CLEANERS
9141 E STOCKTON BLVD STE 210
ELK GROVE, CA 95624
Site 5 of 8 in cluster C

RCRA NonGen / NLR **1024821469**
CAL000337355

Relative:
Higher
Actual:
34 ft.

RCRA Listings:	20081021
Date Form Received by Agency:	Laguna Village Cleaners
Handler Name:	9141 E STOCKTON BLVD STE 210
Handler Address:	ELK GROVE, CA 95624
Handler City,State,Zip:	CAL000337355
EPA ID:	JAIEYOUL JEON
Contact Name:	9141 E STOCKTON BLVD STE 210
Contact Address:	ELK GROVE, CA 95624
Contact City,State,Zip:	916-686-6455
Contact Telephone:	916-686-6455
Contact Fax:	SINWON1122@HANMAIL.NET
Contact Email:	Not reported
Contact Title:	09
EPA Region:	Not reported
Land Type:	Not a generator, verified
Federal Waste Generator Description:	Not reported
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LAGUNA VILLAGE CLEANERS (Continued)

1024821469

Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	9141 E STOCKTON BLVD STE 210
Mailing City,State,Zip:	ELK GROVE, CA 95624-9502
Owner Name:	Cjj Usa Corp
Owner Type:	Other
Operator Name:	Jaeyeoul Jeon
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:	
Owner/Operator Indicator:	Owner
Owner/Operator Name: CJJ USA CORP	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LAGUNA VILLAGE CLEANERS (Continued)

1024821469

Owner/Operator Address:	8708 MESA BROOK WAY
Owner/Operator City,State,Zip:	ELK GROVE, CA 95624-9502
Owner/Operator Telephone:	916-686-6455
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JAEYEOUL JEON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9141 E STOCKTON BLVD STE 210
Owner/Operator City,State,Zip:	ELK GROVE, CA 95624
Owner/Operator Telephone:	916-686-6455
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20081021
Handler Name:	LAGUNA VILLAGE CLEANERS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	81232
NAICS Description:	DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:

Violations:	No Violations Found
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Evaluation Action Summary:

Evaluations:	No Evaluations Found
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C11
SSE
1/8-1/4
0.242 mi.
1276 ft.

FOUR SEASONS DRY CLEANERS
9141 E STOCKTON BLVD UNIT 210
ELK GROVE, CA 95624
Site 6 of 8 in cluster C

RCRA-SQG 1000905288
FINDS CA0000472092
ECHO

Relative:
Higher
Actual:
34 ft.

RCRA Listings:	
Date Form Received by Agency:	19960417
Handler Name:	Four Seasons Dry Cleaners
Handler Address:	9141 E STOCKTON BLVD UNIT 210
Handler City,State,Zip:	ELK GROVE, CA 95624
EPA ID:	CA0000472092

Map ID
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 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FOUR SEASONS DRY CLEANERS (Continued)

1000905288

Contact Name:	YON KIM
Contact Address:	9141 E STOCKTON BLVD UNIT 210
Contact City,State,Zip:	ELK GROVE, CA 95624
Contact Telephone:	916-686-6455
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	9141 E STOCKTON BLVD UNIT 210
Mailing City,State,Zip:	ELK GROVE, CA 95624
Owner Name:	Dae K Kim
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS DRY CLEANERS (Continued)

1000905288

Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: DAE K KIM
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 9141 E STOCKTON BLVD UNIT 210
Owner/Operator City,State,Zip: ELK GROVE, CA 95624
Owner/Operator Telephone: 916-686-6455
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19960417
Handler Name: FOUR SEASONS DRY CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110002618418

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker,

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MAP FINDINGS

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EDR ID Number
 EPA ID Number

FOUR SEASONS DRY CLEANERS (Continued)

1000905288

California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).
 The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000905288
Registry ID:	110002618418
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002618418
Name:	FOUR SEASONS DRY CLEANERS
Address:	9141 E STOCKTON BLVD UNIT 210
City,State,Zip:	ELK GROVE, CA 95624

C12
SSE
1/8-1/4
0.242 mi.
1276 ft.

GARY K CHOW, DDS
9141 E STOCKTON BL
ELK GROVE, CA 95624
Site 7 of 8 in cluster C

Sacramento Co. ML S123291353
N/A

Relative:
Higher
Actual:
34 ft.

Sacramento Co. ML:	
Name:	GARY K CHOW, DDS
Address:	9141 E STOCKTON BL
City,State,Zip:	ELK GROVE, CA 95624
Facility Id:	Not reported
Facility Status:	Inactive. Included on a listing no longer updated.
FD:	G
Billing Codes BP:	Out of Business
Billing Codes UST:	No Tanks
WG Bill Code:	Oil Changed by Outside Company-No Fee
Target Property Bill Cod:	51
Food Bill Code:	51
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	0
UST Tank Test Date:	04/24/1998
SIC Code:	8021
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

Map ID
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 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C13
SSE
1/8-1/4
0.242 mi.
1276 ft.

FOUR SEASONS CLEANERS
9141 E STOCKTON BLVD STE 210
ELK GROVE, CA 95624

Site 8 of 8 in cluster C

DRYCLEANERS
HWTS
HAZNET
Sacramento Co. ML

S109419695
N/A

Relative:
Higher
Actual:
34 ft.

DRYCLEANERS:

Name: FOUR SEASONS CLEANERS
 Address: 9141 E STOCKTON BLVD STE 210
 City,State,Zip: ELK GROVE, CA 956249502
 EPA Id: CAL000145543
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7211
 SIC Description: Power Laundries, Family and Commercial
 Create Date: 05/15/1997
 Facility Active: No
 Inactive Date: 10/06/2008
 Facility Addr2: Not reported
 Owner Name: HONGS MOON/YON KIM
 Owner Address: 5200 MISTY MEADOW WAY
 Owner Address 2: Not reported
 Owner Telephone: 9166845341
 Contact Name: HONG S MOON/PARTNER
 Contact Address: 5200 MISTY MEADOW WAY
 Contact Address 2: Not reported
 Contact Telephone: 9166845341
 Contact Fax: 9166866455
 Mailing Name: Not reported
 Mailing Address 1: 5200 MISTY MEADOW WAY
 Mailing Address 2: Not reported
 Mailing City: ELK GROVE
 Mailing State: CA
 Mailing Zip: 957585234
 Owner Fax: Not reported
 Region Code: 1
 Latitude: 38.425463
 Longitude: -121.394245

Name: LAGUNA VILLAGE CLEANERS
 Address: 9141 E STOCKTON BLVD STE 210
 City,State,Zip: ELK GROVE, CA 95624
 EPA Id: CAL000337355
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7211
 SIC Description: Power Laundries, Family and Commercial
 Create Date: 10/21/2008
 Facility Active: No
 Inactive Date: 06/30/2020
 Facility Addr2: Not reported
 Owner Name: CJJ USA CORP
 Owner Address: 8708 MESA BROOK WAY
 Owner Address 2: Not reported
 Owner Telephone: 9166866455
 Contact Name: JAEYE OUL JEON
 Contact Address: 9141 E STOCKTON BLVD STE 210
 Contact Address 2: Not reported
 Contact Telephone: 9166866455

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Contact Fax: 9166866455
Mailing Name: Not reported
Mailing Address 1: 9141 E STOCKTON BLVD STE 210
Mailing Address 2: Not reported
Mailing City: ELK GROVE
Mailing State: CA
Mailing Zip: 956249502
Owner Fax: 9166866455
Region Code: 1
Latitude: 38.42644
Longitude: -121.3952

DRYCLEAN SACRAMENTO METO DIST:

Site ID: 22551
Name: LAGUNA VILLAGE CLEANERS
Address: 9141 E. STOCKTON BLVD
City,State,Zip: ELK GROVE, CA 95624
Fee Rate: 4
Facility Type: DRY CLEANING UNIT PETROLEUM
Status: ACTIVE
Appreciation Date: 05/28/2010
Client Number: 3326
Latitude: Not reported
Longitude: Not reported

HWTS:

Name: FOUR SEASONS CLEANERS
Address: 9141 E STOCKTON BLVD STE 210
Address 2: Not reported
City,State,Zip: ELK GROVE, CA 95624
EPA ID: CAL000145543
Inactive Date: 10/06/2008
Create Date: 05/15/1997
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 5200 MISTY MEADOW WAY
Mailing Address 2: Not reported
Mailing City,State,Zip: ELK GROVE, CA 957585234
Owner Name: HONGS MOON/YON KIM
Owner Address: 5200 MISTY MEADOW WAY
Owner Address 2: Not reported
Owner City,State,Zip: ELK GROVE, CA 957585234
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: HONG S MOON/PARTNER
Contact Address: 5200 MISTY MEADOW WAY
Contact Address 2: Not reported
City,State,Zip: ELK GROVE, CA 957585234
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: PERMANENT
Category: STATE
Latitude: 38.425463
Longitude: -121.394245

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

NAICS:

EPA ID: CAL000145543
Create Date: 2005-01-06 13:24:06.993
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date: 1997-05-15 00:00:00
Inactive Date: 2008-10-06 00:00:00
Facility Name: FOUR SEASONS CLEANERS
Facility Address: 9141 E STOCKTON BLVD STE 210
Facility Address 2: Not reported
Facility City: ELK GROVE
Facility County: Not reported
Facility State: CA
Facility Zip: 956249502

HAZNET:

Name: FOUR SEASONS CLEANERS
Address: 9141 E STOCKTON BLVD STE 210
Address 2: Not reported
City,State,Zip: ELK GROVE, CA 956249502
Contact: HONG S MOON/PARTNER
Telephone: 9166845341
Mailing Name: Not reported
Mailing Address: 5200 MISTY MEADOW WAY

Year: 2007
Gepaid: CAL000145543
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.08

Year: 2005
Gepaid: CAL000145543
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.2925

Year: 2004
Gepaid: CAL000145543
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.39

Year: 2003
Gepaid: CAL000145543
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.195

Year: 2002

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Gepaid:	CAL000145543
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.195
Year:	2002
Gepaid:	CAL000145543
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	-
Tons:	0.195
Year:	2001
Gepaid:	CAL000145543
TSD EPA ID:	CA0000084517
CA Waste Code:	-
Disposal Method:	H01 - Transfer Station
Tons:	0
Year:	2001
Gepaid:	CAL000145543
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.195
Year:	2000
Gepaid:	CAL000145543
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.195
Year:	1999
Gepaid:	CAL000145543
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	-
Tons:	0.0975

[Click this hyperlink](#) while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2007
Gen EPA ID:	CAL000145543
Shipment Date:	20070222
Creation Date:	8/9/2007 18:30:58
Receipt Date:	20070223
Manifest ID:	000228587SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

TSDF EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC 000760
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.08
Waste Quantity: 160
Quantity Unit: P
Additional Code 1: D040
Additional Code 2: D039
Additional Code 3: D007
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2005
Gen EPA ID: CAL000145543

Shipment Date: 20051121
Creation Date: 7/12/2006 18:31:35
Receipt Date: 20051122
Manifest ID: 24356881
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: CA0000084517
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050727
Creation Date: 10/11/2005 18:31:29
Receipt Date: 20050728
Manifest ID: 24362958
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: CA0000084517
TSDF Alt Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050330
Creation Date: 6/1/2005 18:31:04
Receipt Date: 20050331
Manifest ID: 24125385
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2004
Gen EPA ID: CAL000145543

Shipment Date: 20041130
Creation Date: 1/28/2005 18:31:06
Receipt Date: 20041201
Manifest ID: 23704729
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040726
Creation Date:	11/5/2004 18:32:00
Receipt Date:	20040727
Manifest ID:	23345153
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID:	CA0000084517
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040405
Creation Date:	10/14/2004 15:19:37
Receipt Date:	20040406
Manifest ID:	23387239
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID:	CA0000084517
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040105
Creation Date:	8/19/2004 11:23:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Receipt Date: 20040106
Manifest ID: 22870067
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2003
Gen EPA ID: CAL000145543

Shipment Date: 20030814
Creation Date: 7/29/2004 7:43:17
Receipt Date: 20030815
Manifest ID: 22649468
Trans EPA ID: TXR000050930
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20030409
Creation Date: 1/5/2007 18:30:44
Receipt Date: 20030410
Manifest ID: 22305252
Trans EPA ID: TXR000050930
Trans Name: Not reported
Trans 2 EPA ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: Not reported
TSDF Alt EPA ID: CA0000084517
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2002
Gen EPA ID: CAL000145543

Shipment Date: 20021221
Creation Date: 3/31/2003 18:31:15
Receipt Date: 20021223
Manifest ID: 22184163
Trans EPA ID: TXR000050930
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20020813
Creation Date: 1/27/2003 18:31:12
Receipt Date: 20020814
Manifest ID: 21964867
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: - Not reported
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20020409
Creation Date: 7/9/2002 18:31:13
Receipt Date: 20020410
Manifest ID: 21555385
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20020108
Creation Date: 2/26/2002 0:00:00
Receipt Date: 20020109
Manifest ID: 21449860
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: - Not reported
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2001
Gen EPA ID: CAL000145543

Shipment Date: 20010906
Creation Date: 11/1/2001 0:00:00
Receipt Date: 20010907
Manifest ID: 21440674
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20010323
Creation Date: 5/31/2001 0:00:00
Receipt Date: 20010326
Manifest ID: 20619305
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20010323
Creation Date: 5/31/2001 0:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Receipt Date: 20010326
Manifest ID: 20619305
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0
Waste Quantity: 0
Quantity Unit: Not reported
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2000
Gen EPA ID: CAL000145543

Shipment Date: 20000921
Creation Date: 11/13/2000 0:00:00
Receipt Date: 20000922
Manifest ID: 20039288
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20000420
Creation Date: 6/21/2000 0:00:00
Receipt Date: 20000421
Manifest ID: 99410171
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: Not reported
TSDF Alt EPA ID: CA0000084517
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 1999
Gen EPA ID: CAL000145543

Shipment Date: 19991219
Creation Date: 2/1/2000 0:00:00
Receipt Date: Not reported
Manifest ID: 99069452
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: - Not reported
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19990730
Creation Date: 10/12/1999 0:00:00
Receipt Date: 19990802
Manifest ID: 99263235
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.8131
Waste Quantity: 195
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19990108
Creation Date: 3/17/1999 0:00:00
Receipt Date: 19990111
Manifest ID: 98625604
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1998
Gen EPA ID: CAL000145543

Shipment Date: 19981111
Creation Date: 1/13/1999 0:00:00
Receipt Date: 19981112
Manifest ID: 98140428
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: CA0000084517
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.075
Waste Quantity: 150

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980512
Creation Date:	7/15/1998 0:00:00
Receipt Date:	19980513
Manifest ID:	97370322
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CA0000084517
Trans Name:	Not reported
TSDf Alt EPA ID:	CA0000084517
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	1997
Gen EPA ID:	CAL000145543
Shipment Date:	19971114
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971117
Manifest ID:	97281375
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CA0000084517
Trans Name:	Not reported
TSDf Alt EPA ID:	CA0000084517
TSDf Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOUR SEASONS CLEANERS (Continued)

S109419695

Additional Code 5: Not reported

Shipment Date: 19970530
Creation Date: 7/17/1997 0:00:00
Receipt Date: 19970602
Manifest ID: 96489478
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CA0000084517
Trans Name: Not reported
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Sacramento Co. ML:

Name: LAGUNA VILLAGE CLEANERS
Address: 9141 E STOCKTON BLVD STE 210
City,State,Zip: ELK GROVE, CA 95624
Facility Id: Not reported
Facility Status: Not reported
FD: Not reported
Billing Codes BP: I
Billing Codes UST: Not reported
WG Bill Code: A
Target Property Bill Cod: Not reported
Food Bill Code: Not reported
CUPA Permit Date: Not reported
HAZMAT Permit Date: Not reported
HAZMAT Inspection Date: Not reported
Hazmat Date BP Received: Not reported
UST Permit Dt: Not reported
UST Inspection Date: Not reported
UST Tank Test Date: Not reported
Number of Tanks: Not reported
UST Tank Test Date: Not reported
SIC Code: Not reported
Tier Permitting: Not reported
AST Bill Code: Not reported
CALARP Bill Code: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

D14
 North
 1/4-1/2
 0.392 mi.
 2072 ft.

STOCKMEN SUPPLY CO
8821 E STOCKTON BLVD
ELK GROVE, CA 95624

Sacramento Co. CS
Sacramento Co. ML

S103959844
N/A

Site 1 of 3 in cluster D

Relative:
Higher
Actual:
35 ft.

Sacramento Co. CS:
 Name: CENTURY EQUIPMENT
 Address: 8821 E STOCKTON BLVD
 City,State,Zip: ELK GROVE, CA
 State Site Number: C594
 Lead Staff: Marcus, B.
 Lead Agency: HM
 Remedial Action Taken: NO
 Substance: Automotive(motor gasoline and additives)
 Date Reported: 10/09/1997
 Facility Id: RO0001087
 Case Type: Soil only
 Case Closed: Y
Date Closed: 07/26/2000
Case Type: Soil only affected
Substance: Automotive(motor gasoline and additives)

Sacramento Co. ML:
 Name: STOCKMEN SUPPLY CO
 Address: 8821 E STOCKTON BLVD
 City,State,Zip: ELK GROVE, CA 95624
 Facility Id: Not reported
 Facility Status: Not reported
 FD: Not reported
 Billing Codes BP: I
 Billing Codes UST: Not reported
 WG Bill Code: I
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 AST Bill Code: Not reported
 CALARP Bill Code: Not reported

D15
 North
 1/4-1/2
 0.392 mi.
 2072 ft.

CENTURY EQUIPMENT
8821 STOCKTON BLVD E
ELK GROVE, CA 95624

LUST
Cortese
HIST CORTESE
Sacramento Co. ML
CERS

S103708239
N/A

Site 2 of 3 in cluster D

Relative:
Higher
Actual:
35 ft.

LUST:
 Name: CENTURY EQUIPMENT
 Address: 8821 STOCKTON BLVD E
 City,State,Zip: ELK GROVE, CA 95624

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CENTURY EQUIPMENT (Continued)

S103708239

Lead Agency: SACRAMENTO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606700972
Global Id: T0606700972
Latitude: 38.4371409
Longitude: -121.399887
Status: Completed - Case Closed
Status Date: 07/26/2000
Case Worker: Not reported
RB Case Number: 341147
Local Agency: Not reported
File Location: Not reported
Local Case Number: C594
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline
EPA Region: 9
Coordinate Source: Google Geocode
Cuf Case: YES
Quantity Released Gallons: Not reported
Begin Date: 09/18/1997
Leak Reported Date: 01/02/1965
How Discovered: Not reported
How Discovered Description: Not reported
Discharge Source: Not reported
Discharge Cause: Not reported
Stop Method: Not reported
Stop Description: Not reported
No Further Action Date: 07/26/2000
CA Water Watershed Name: Valley-American - Morrison Creek - Franklin (519.11)
Dwr Groundwater Subbasin Name: Sacramento Valley - South American (5-021.65)
Disadvantaged Community: Not reported
CA Enviroscreen 3 Score: 21-25%
CA Enviroscreen 4 Score: 35-40%
Military DOD Site: No
Facility Project Subtype: Not reported
RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5S)
Site History: Not reported

LUST:

Global Id: T0606700972
Contact Type: Regional Board Caseworker
Contact Name: VERA FISCHER
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: vera.fischer@waterboards.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0606700972
Action Type: Other
Date: 09/18/1997
Action: Leak Discovery

Global Id: T0606700972
Action Type: Other
Date: 01/02/1965

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CENTURY EQUIPMENT (Continued)

S103708239

Action: Leak Reported

LUST:

Global Id: T0606700972
Status: Open - Case Begin Date
Status Date: 09/18/1997

Global Id: T0606700972
Status: Open - Site Assessment
Status Date: 09/18/1997

Global Id: T0606700972
Status: Completed - Case Closed
Status Date: 07/26/2000

LUST REG 5:

Name: CENTURY EQUIPMENT
Address: 8821 STOCKTON BLVD E
City: ELK GROVE
Region: 5
Status: Case Closed
Case Number: 341147
Case Type: Undefined
Substance: GASOLINE
Staff Initials: VJF
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:

Name: CENTURY EQUIPMENT
Address: 8821 STOCKTON BLVD E
City,State,Zip: ELK GROVE, CA 95624
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606700972
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CENTURY EQUIPMENT (Continued)

S103708239

HIST CORTESE:

edr_fname: CENTURY EQUIPMENT
edr_fadd1: 8821 STOCKTON
City,State,Zip: ELK GROVE, CA 95624
Region: CORTESE
Facility County Code: 34
Reg By: LTNKA
Reg Id: 341147

Sacramento Co. ML:

Name: MOSIER IMPLEMENT
Address: 8821 STOCKTON BL
City,State,Zip: ELK GROVE, CA 95624
Facility Id: G0151587
Facility Status: Inactive. Included on a listing no longer updated.
FD: G
Billing Codes BP: Out of Business
Billing Codes UST: No Tanks
WG Bill Code: Oil Changed by Outside Company-No Fee
Target Property Bill Cod: 51
Food Bill Code: 51
CUPA Permit Date: Not reported
HAZMAT Permit Date: 02/01/1989
HAZMAT Inspection Date: 01/06/1997
Hazmat Date BP Received: Not reported
UST Permit Dt: 01/27/1988
UST Inspection Date: 11/05/1991
UST Tank Test Date: 07/12/1993
Number of Tanks: 2
UST Tank Test Date: 01/06/1997
SIC Code: 5083
Tier Permitting: Not reported
AST Bill Code: Not reported
CALARP Bill Code: Not reported

CERS:

Name: CENTURY EQUIPMENT
Address: 8821 STOCKTON BLVD E
City,State,Zip: ELK GROVE, CA 95624
Site ID: 642998
CERS ID: T0606700972
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker
Entity Name: VERA FISCHER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

D16
North
1/4-1/2
0.392 mi.
2072 ft.

CENTURY EQUIPMENT
8821 STOCKTON BLVD E
ELK GROVE, CA 95624

UST FINDER RELEASE 1028932276
N/A

Site 3 of 3 in cluster D

Relative:
Higher

UST FINDER RELEASE:

Actual:
35 ft.

Object ID: 50145
Facility ID: Not reported
Lust ID: CAT0606700972
Name: CENTURY EQUIPMENT
Address: 8821 STOCKTON BLVD E
City,State,Zip: ELK GROVE, CA 95624
Address Match Type: StreetAddress
Reported Date: Not reported
Status: No Further Action
Substance: Not reported
Population within 1500ft: 980
Domestic Wells within 1500ft: 76
Land Use: Developed, Low Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: Yes
WHPA PWS Facility ID: CA3400397_37990
WHPA Water Type: GW - Ground water
WHPA Facility Type: WL - Well
WHPA HUC12: 180201630403
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 9
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -121.39726
Y Coord: 38.43733
Latitude: 38.43733
Longitude: -121.39726

17
NW
1/4-1/2
0.421 mi.
2223 ft.

DOLLAR TREE #03447
8126 SHELDON RD
ELK GROVE, CA 95758

SWRCY S118234286
CERS HAZ WASTE N/A
HWTS
HAZNET
CERS

Relative:
Lower

SWRCY:

Actual:
27 ft.

Name: A ROBINSON RECYCLE CENTER
Address: 8126 SHELDON RD
City,State,Zip: ELK GROVE, CA 95758
Reg Id: 251573
Cert Id: RC251573.001
Mailing Address: 2075 Gold Nugget Dr
Mailing City: Plumas Lake
Mailing State: CA
Mailing Zip Code: 95961

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Website: Not reported
Email: robinson.aliya@yahoo.com
Phone Number: (916) 233-7694
Rural: N
Operation Begin Date: 10/01/2016
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Hours of Operation: Mon - Sat 9:00 am - 4:00 pm, Closed 12:00 pm - 1:00 pm; Sun Closed
Organization ID: 246831
Organization Name: A Robinson Recycling Center

CERS HAZ WASTE:

Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
City,State,Zip: ELK GROVE, CA 95758
Site ID: 25850
CERS ID: 10467889
CERS Description: Hazardous Waste Generator

HWTS:

Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City,State,Zip: ELK GROVE, CA 95758
EPA ID: CAL000390933
Inactive Date: Not reported
Create Date: 11/06/2013
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing Address 2: Not reported
Mailing City,State,Zip: CHESAPEAKE, VA 233201604
Owner Name: DOLLAR TREE STORES, INC.
Owner Address: 500 VOLVO PKWY
Owner Address 2: Not reported
Owner City,State,Zip: CHESAPEAKE, VA 233201604
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: JESSICA DUBUQUE
Contact Address: 500 VOLVO PKWY
Contact Address 2: Not reported
City,State,Zip: CHESAPEAKE, VA 233201604
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 38.436129
Longitude: -121.4077005

NAICS:

EPA ID: CAL000390933
Create Date: 2013-11-06 11:22:14.447
NAICS Code: 45299
NAICS Description: All Other General Merchandise Stores

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Issued EPA ID Date: 2013-11-06 11:22:14.44300
Inactive Date: Not reported
Facility Name: DOLLAR TREE #03447
Facility Address: 8126 SHELDON RD
Facility Address 2: Not reported
Facility City: ELK GROVE
Facility County: Not reported
Facility State: CA
Facility Zip: 957585928

HAZNET:

Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City,State,Zip: ELK GROVE, CA 957585928
Contact: JESSICA DUBUQUE
Telephone: 7573215458
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY

Year: 2021
Gepaid: CAL000390933
TSD EPA ID: AZR000515924
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1235

Year: 2021
Gepaid: CAL000390933
TSD EPA ID: CAD008364432
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.004

Year: 2021
Gepaid: CAL000390933
TSD EPA ID: NVD980895338
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H121 - Neutralization Only
Tons: 0.0325

Year: 2021
Gepaid: CAL000390933
TSD EPA ID: NVD980895338
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.012

Year: 2021
Gepaid: CAL000390933
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Tons:	Treatment/Reovery (H010-H129) Or (H131-H135) 0.054
Year:	2021
Gepaid:	CAL000390933
TSD EPA ID:	CAD980884183
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0015
Year:	2020
Gepaid:	CAL000390933
TSD EPA ID:	AZR000515924
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2015
Year:	2020
Gepaid:	CAL000390933
TSD EPA ID:	MID980615298
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H121 - Neutralization Only
Tons:	0.0325
Year:	2020
Gepaid:	CAL000390933
TSD EPA ID:	CAD980884183
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01
Year:	2020
Gepaid:	CAL000390933
TSD EPA ID:	NVD980895338
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01

[Click this hyperlink](#) while viewing on your computer to access
46 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2021
Gen EPA ID:	CAL000390933
Shipment Date:	7/7/2020
Creation Date:	8/22/2020
Receipt Date:	7/27/2020
Manifest ID:	014903587FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans 2 Name: Stericycle Specialty Waste Solutions Inc
TSDf EPA ID: NVD980895338
Trans Name: 21st Century Environmental Management of Nevada, LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001,D035
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.003
Waste Quantity: 6
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 7/7/2020
Creation Date: 8/22/2020
Receipt Date: 7/27/2020
Manifest ID: 014903587FLE
Trans EPA ID: MNS000110924
Trans Name: Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID: MNS000110924
Trans 2 Name: Stericycle Specialty Waste Solutions Inc
TSDf EPA ID: NVD980895338
Trans Name: 21st Century Environmental Management of Nevada, LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 122 - Alkaline solution without metals (pH > 12.5)
RCRA Code: Not reported
Meth Code: H121 - Neutralization Only
Quantity Tons: 0.0115
Waste Quantity: 23
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 7/7/2020
Creation Date: 8/13/2020
Receipt Date: 7/23/2020
Manifest ID: 014903588FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDf EPA ID: AZR000515924
Trans Name: YUMA YES WASTE TRANSFER FACILITY
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	3/2/2020
Creation Date:	3/26/2020
Receipt Date:	3/20/2020
Manifest ID:	014011810FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	3/2/2020
Creation Date:	3/26/2020
Receipt Date:	3/20/2020
Manifest ID:	014011810FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	2/10/2020
Creation Date:	2/23/2020
Receipt Date:	2/12/2020
Manifest ID:	014011732FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDf EPA ID:	CAD980884183
Trans Name:	GEM Rancho Cordova LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	2/10/2020
Creation Date:	3/23/2020
Receipt Date:	2/21/2020
Manifest ID:	014011734FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDf EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.058
Waste Quantity:	116
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	2/10/2020
Creation Date:	3/23/2020
Receipt Date:	2/21/2020
Manifest ID:	014011734FLE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDf EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	2/10/2020
Creation Date:	3/16/2020
Receipt Date:	3/5/2020
Manifest ID:	014011733FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDf EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	11/2/2020
Creation Date:	12/8/2020
Receipt Date:	11/25/2020
Manifest ID:	014901697FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	MID980615298
Trans Name:	Petro Chem Processing Group of Nortru LLC
TSDf Alt EPA ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Additional Info:	
Year:	2020
Gen EPA ID:	CAL000390933
Shipment Date:	7/7/2020
Creation Date:	8/13/2020
Receipt Date:	7/23/2020
Manifest ID:	014903588FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	7/7/2020
Creation Date:	8/22/2020
Receipt Date:	7/27/2020
Manifest ID:	014903587FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	7/7/2020
Creation Date:	8/22/2020
Receipt Date:	7/27/2020
Manifest ID:	014903587FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDf EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5)
RCRA Code:	Not reported
Meth Code:	H121 - Neutralization Only
Quantity Tons:	0.0115
Waste Quantity:	23
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	3/2/2020
Creation Date:	3/26/2020
Receipt Date:	3/20/2020
Manifest ID:	014011810FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDf EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

<p>Additional Code 4: Additional Code 5:</p> <p>Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: TSDF Alt Name: Waste Code Description: RCRA Code: Meth Code:</p> <p>Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5:</p> <p>Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: TSDF Alt Name: Waste Code Description: RCRA Code: Meth Code:</p> <p>Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5:</p> <p>Shipment Date: Creation Date: Receipt Date: Manifest ID:</p>	<p>Not reported Not reported</p> <p>3/2/2020 3/26/2020 3/20/2020 014011810FLE MNS000110924 Stericycle Specialty Waste Solutions Inc MNS000110924 Stericycle Specialty Waste Solutions Inc NVD980895338 21st Century Environmental Management of Nevada, LLC Not reported Not reported 331 - Off-specification, aged, or surplus organics D016 H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.01 20 P Not reported Not reported Not reported Not reported Not reported</p> <p>2/10/2020 3/16/2020 3/5/2020 014011733FLE MNS000110924 Stericycle Specialty Waste Solutions Inc MNS000110924 Stericycle Specialty Waste Solutions Inc NVD980895338 21st Century Environmental Management of Nevada, LLC Not reported Not reported 214 - Unspecified solvent mixture D001,D035 H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.003 6 P Not reported Not reported Not reported Not reported Not reported</p> <p>2/10/2020 3/23/2020 2/21/2020 014011734FLE</p>
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Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDf EPA ID: AZR000515924
Trans Name: YUMA YES WASTE TRANSFER FACILITY
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.036
Waste Quantity: 72
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 2/10/2020
Creation Date: 2/23/2020
Receipt Date: 2/12/2020
Manifest ID: 014011732FLE
Trans EPA ID: MNS000110924
Trans Name: Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID: MNS000110924
Trans 2 Name: Stericycle Specialty Waste Solutions Inc
TSDf EPA ID: CAD980884183
Trans Name: GEM Rancho Cordova LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0055
Waste Quantity: 11
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 2/10/2020
Creation Date: 3/23/2020
Receipt Date: 2/21/2020
Manifest ID: 014011734FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDf EPA ID: AZR000515924
Trans Name: YUMA YES WASTE TRANSFER FACILITY
TSDf Alt EPA ID: Not reported

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EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.058
Waste Quantity: 116
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 11/2/2020
Creation Date: 12/8/2020
Receipt Date: 11/25/2020
Manifest ID: 014901697FLE
Trans EPA ID: MNS000110924
Trans Name: Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: MID980615298
Trans Name: Petro Chem Processing Group of Nortru LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 122 - Alkaline solution without metals (pH > 12.5)
RCRA Code: Not reported
Meth Code: H121 - Neutralization Only
Quantity Tons: 0.0325
Waste Quantity: 65
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Detail Two:

Year: 2020
EM Manifest ID: b9aabdf3-0198-4d16-bd6b-69bdfbfb350
Shipment Date: 7/7/2020
Receipt Date: 7/27/2020
Manifest Number: 014903587FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 775-575-2760
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDf EPA ID:	NVD980895338
TSDf Name:	21st Century Environmental Management of Nevada, LLC
TSDf Address 1:	2095 Newlands Drive East
TSDf Address 2:	Not reported
TSDf City:	Fernley
TSDf Zip:	89408
TSDf Telephone:	Not reported
Federal:	
Year:	2020
EM Manifest ID:	b9aabdf3-0198-4d16-bd6b-69bfdbefb350
Generator EPA ID:	CAL000390933
Shipment Date:	2020-07-07
Manifest Number:	014903587FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001
Year:	2020
EM Manifest ID:	b9aabdf3-0198-4d16-bd6b-69bfdbefb350
Generator EPA ID:	CAL000390933
Shipment Date:	2020-07-07
Manifest Number:	014903587FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D035
State:	
Year:	2020
EM Manifest ID:	b9aabdf3-0198-4d16-bd6b-69bfdbefb350
Generator EPA ID:	CAL000390933
Shipment Date:	2020-07-07
Manifest Number:	014903587FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214
Year:	2020
EM Manifest ID:	b9aabdf3-0198-4d16-bd6b-69bfdbefb350

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Generator EPA ID: CAL000390933
Shipment Date: 2020-07-07
Manifest Number: 014903587FLE
Line Number: 2
Method Code: H121
Quantity Tons: 0.01150
Quantity Waste: 23.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 122

Year: 2020
EM Manifest ID: 97035580-d290-4c53-84e8-5dae2388b009
Shipment Date: 7/7/2020
Receipt Date: 7/23/2020
Manifest Number: 014903588FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: AZR000515924
TSDf Name: YUMA YES WASTE TRANSFER FACILITY
TSDf Address 1: 2730 E 13TH ST
TSDf Address 2: Not reported
TSDf City: YUMA
TSDf Zip: 85365-1901
TSDf Telephone: Not reported

State:

Year: 2020
EM Manifest ID: 97035580-d290-4c53-84e8-5dae2388b009
Generator EPA ID: CAL000390933
Shipment Date: 2020-07-07
Manifest Number: 014903588FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.06000
Quantity Waste: 120.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2020

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

EM Manifest ID: 884245
Shipment Date: 6/25/2019
Receipt Date: 7/17/2019
Manifest Number: 013649224FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 775-575-2760
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: NVD980895338
TSDf Name: 21st Century Environmental Management of Nevada, LLC
TSDf Address 1: 2095 Newlands Drive East
TSDf Address 2: Not reported
TSDf City: Fernley
TSDf Zip: 89408
TSDf Telephone: Not reported

Federal:

Year: 2020
EM Manifest ID: 884245
Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649224FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 884245
Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649224FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

Year: 2020
EM Manifest ID: 884245

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649224FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00100
Quantity Waste: 2.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

State:

Year: 2020
EM Manifest ID: 884245
Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649224FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00150
Quantity Waste: 3.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 214

Year: 2020
EM Manifest ID: 884245
Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649224FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00100
Quantity Waste: 2.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: 1139815
Shipment Date: 3/2/2020
Receipt Date: 3/20/2020
Manifest Number: 014011810FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Contact:	Not reported
Contact Telephone:	775-575-2760
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City:	Fernley
TSDF Zip:	89408
TSDF Telephone:	Not reported
Federal:	
Year:	2020
EM Manifest ID:	1139815
Generator EPA ID:	CAL000390933
Shipment Date:	2020-03-02
Manifest Number:	014011810FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00700
Quantity Waste:	14.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001
Year:	2020
EM Manifest ID:	1139815
Generator EPA ID:	CAL000390933
Shipment Date:	2020-03-02
Manifest Number:	014011810FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00700
Quantity Waste:	14.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D035
Year:	2020
EM Manifest ID:	1139815
Generator EPA ID:	CAL000390933
Shipment Date:	2020-03-02
Manifest Number:	014011810FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01000
Quantity Waste:	20.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Federal Code: D016

State:

Year: 2020
EM Manifest ID: 1139815
Generator EPA ID: CAL000390933
Shipment Date: 2020-03-02
Manifest Number: 014011810FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00700
Quantity Waste: 14.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 214

Year: 2020
EM Manifest ID: 1139815
Generator EPA ID: CAL000390933
Shipment Date: 2020-03-02
Manifest Number: 014011810FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.01000
Quantity Waste: 20.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: a8f42bd6-34db-4de2-ac89-b05467e8e6f1
Shipment Date: 2/10/2020
Receipt Date: 2/12/2020
Manifest Number: 014011732FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-351-0980
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD980884183
TSDF Name: GEM Rancho Cordova LLC
TSDF Address 1: 11855 White Rock Road
TSDF Address 2: Not reported
TSDF City: Rancho Cordova

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDf Zip:	95742
TSDf Telephone:	Not reported
Federal:	
Year:	2020
EM Manifest ID:	a8f42bd6-34db-4de2-ac89-b05467e8e6f1
Generator EPA ID:	CAL000390933
Shipment Date:	2020-02-10
Manifest Number:	014011732FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001
State:	
Year:	2020
EM Manifest ID:	a8f42bd6-34db-4de2-ac89-b05467e8e6f1
Generator EPA ID:	CAL000390933
Shipment Date:	2020-02-10
Manifest Number:	014011732FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331
Year:	2020
EM Manifest ID:	1104783
Shipment Date:	2/10/2020
Receipt Date:	3/5/2020
Manifest Number:	014011733FLE
Generator EPA ID:	CAL000390933
Name:	DOLLAR TREE
Address:	8126 SHELDON ROAD
Address 2:	Not reported
City:	ELK GROVE
Zip:	95758-5928
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	775-575-2760
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDf EPA ID:	NVD980895338
TSDf Name:	21st Century Environmental Management of Nevada, LLC
TSDf Address 1:	2095 Newlands Drive East

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDf Address 2:	Not reported
TSDf City:	Fernley
TSDf Zip:	89408
TSDf Telephone:	Not reported
Federal:	
Year:	2020
EM Manifest ID:	1104783
Generator EPA ID:	CAL000390933
Shipment Date:	2020-02-10
Manifest Number:	014011733FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001
Year:	2020
EM Manifest ID:	1104783
Generator EPA ID:	CAL000390933
Shipment Date:	2020-02-10
Manifest Number:	014011733FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D035
State:	
Year:	2020
EM Manifest ID:	1104783
Generator EPA ID:	CAL000390933
Shipment Date:	2020-02-10
Manifest Number:	014011733FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00300
Quantity Waste:	6.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214
Year:	2020
EM Manifest ID:	1119917
Shipment Date:	2/10/2020
Receipt Date:	2/21/2020

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Manifest Number: 014011734FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:

Year: 2020
EM Manifest ID: 1119917
Generator EPA ID: CAL000390933
Shipment Date: 2020-02-10
Manifest Number: 014011734FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.03600
Quantity Waste: 72.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: 1119917
Generator EPA ID: CAL000390933
Shipment Date: 2020-02-10
Manifest Number: 014011734FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.05800
Quantity Waste: 116.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: bab295a0-8b93-482b-ad6e-bcdf1209a2c9
Shipment Date: 11/2/2020
Receipt Date: 11/13/2020

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EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Manifest Number: 014901698FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: bab295a0-8b93-482b-ad6e-bcdf1209a2c9
Generator EPA ID: CAL000390933
Shipment Date: 2020-11-02
Manifest Number: 014901698FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.04750
Quantity Waste: 95.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: b8142359-a6a4-4d82-ad9e-ed17064b18d1
Shipment Date: 10/17/2019
Receipt Date: 10/22/2019
Manifest Number: 013657317FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-351-0980
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD980884183

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDF Name: GEM Rancho Cordova LLC
TSDF Address 1: 11855 White Rock Road
TSDF Address 2: Not reported
TSDF City: Rancho Cordova
TSDF Zip: 95742
TSDF Telephone: Not reported

Federal:

Year: 2020
EM Manifest ID: b8142359-a6a4-4d82-ad9e-ed17064b18d1
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657317FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00600
Quantity Waste: 12.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

State:

Year: 2020
EM Manifest ID: b8142359-a6a4-4d82-ad9e-ed17064b18d1
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657317FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00600
Quantity Waste: 12.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: 868637
Shipment Date: 10/17/2019
Receipt Date: 11/12/2019
Manifest Number: 013657318FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 775-575-2760
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Transporter 2 Emergency Number: Not reported
TSDf EPA ID: NVD980895338
TSDf Name: 21st Century Environmental Management of Nevada, LLC
TSDf Address 1: 2095 Newlands Drive East
TSDf Address 2: Not reported
TSDf City: Fernley
TSDf Zip: 89408
TSDf Telephone: Not reported

Federal:

Year: 2020
EM Manifest ID: 868637
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657318FLE
Line Number: 1
Method Code: H070
Quantity Tons: 0.02850
Quantity Waste: 57.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 868637
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657318FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 868637
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657318FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

State:

Year: 2020

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

EM Manifest ID: 868637
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657318FLE
Line Number: 1
Method Code: H070
Quantity Tons: 0.02850
Quantity Waste: 57.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 141

Year: 2020
EM Manifest ID: 868637
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657318FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 214

Detail Two:

Year: 2019
EM Manifest ID: 14880983-e64a-47fe-94cb-f94817583514
Shipment Date: 7/31/2018
Receipt Date: 8/18/2018
Manifest Number: 011490697FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: AZR000515924
TSDf Name: YUMA YES WASTE TRANSFER FACILITY
TSDf Address 1: 2730 E 13TH ST
TSDf Address 2: Not reported
TSDf City: YUMA
TSDf Zip: 85365-1901
TSDf Telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

State:
Year: 2019
EM Manifest ID: 14880983-e64a-47fe-94cb-f94817583514
Generator EPA ID: CAL000390933
Shipment Date: 2018-07-31
Manifest Number: 011490697FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.05750
Quantity Waste: 115.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 14880983-e64a-47fe-94cb-f94817583514
Generator EPA ID: CAL000390933
Shipment Date: 2018-07-31
Manifest Number: 011490697FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.06400
Quantity Waste: 128.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 466659
Shipment Date: 6/25/2019
Receipt Date: 7/10/2019
Manifest Number: 013649225FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #3447
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: AZR000515924
TSDf Name: YUMA YES WASTE TRANSFER FACILITY
TSDf Address 1: 2730 E 13TH ST
TSDf Address 2: Not reported
TSDf City: YUMA
TSDf Zip: 85365-1901
TSDf Telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

State:

Year: 2019
EM Manifest ID: 466659
Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649225FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.05500
Quantity Waste: 110.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 464489
Shipment Date: 6/25/2019
Receipt Date: 7/12/2019
Manifest Number: 013649223FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 323-776-6233
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: CAD008364432
TSDf Name: Rho Chem LLC
TSDf Address 1: 425 Isis Ave.
TSDf Address 2: Not reported
TSDf City: Inglewood
TSDf Zip: 90301
TSDf Telephone: Not reported

State:

Year: 2019
EM Manifest ID: 464489
Generator EPA ID: CAL000390933
Shipment Date: 2019-06-25
Manifest Number: 013649223FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00900
Quantity Waste: 18.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

State Code: 122

Year: 2019
EM Manifest ID: 357250
Shipment Date: 3/25/2019
Receipt Date: 4/10/2019
Manifest Number: 012496289FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 775-575-2760
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NVD980895338
TSDF Name: 21st Century Environmental Management of Nevada, LLC
TSDF Address 1: 2095 Newlands Drive East
TSDF Address 2: Not reported
TSDF City: Fernley
TSDF Zip: 89408
TSDF Telephone: Not reported

Federal:

Year: 2019
EM Manifest ID: 357250
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496289FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00900
Quantity Waste: 18.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 357250
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496289FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00300
Quantity Waste: 6.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Federal Code: D001

Year: 2019
EM Manifest ID: 357250
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496289FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00300
Quantity Waste: 6.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

State:
Year: 2019
EM Manifest ID: 357250
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496289FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00900
Quantity Waste: 18.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 357250
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496289FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00300
Quantity Waste: 6.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 214

Year: 2019
EM Manifest ID: 343766
Shipment Date: 3/25/2019
Receipt Date: 4/8/2019
Manifest Number: 012496290FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:

Year: 2019
EM Manifest ID: 343766
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496290FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 343766
Generator EPA ID: CAL000390933
Shipment Date: 2019-03-25
Manifest Number: 012496290FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.05750
Quantity Waste: 115.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 687833
Shipment Date: 10/17/2019
Receipt Date: 11/1/2019
Manifest Number: 013657319FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:

Year: 2019
EM Manifest ID: 687833
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657319FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.05550
Quantity Waste: 111.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 687833
Generator EPA ID: CAL000390933
Shipment Date: 2019-10-17
Manifest Number: 013657319FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.03650
Quantity Waste: 73.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 331

Detail Two:

Year: 2018
EM Manifest ID: 010076597FLE20170818_D_1
Shipment Date: 8/18/2017
Receipt Date: 9/7/2017
Manifest Number: 010076597FLE
Generator EPA ID: CAL000390933

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Name:	DOLLAR TREE #3447
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NED986382133
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21ST CENTURY EMN LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported
State:	
Year:	2018
EM Manifest ID:	010076597FLE20170818_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2017-08-18
Manifest Number:	010076597FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.15250
Quantity Waste:	305.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010076597FLE20170818_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2017-08-18
Manifest Number:	010076597FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.07200
Quantity Waste:	144.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Shipment Date:	3/12/2018
Receipt Date:	3/22/2018
Manifest Number:	010868330FLE
Generator EPA ID:	CAL000390933

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Name:	DOLLAR TREE #3447
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NED986382133
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21ST CENTURY EMN LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported
Federal:	
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2018-03-12
Manifest Number:	010868330FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01700
Quantity Waste:	34.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2018-03-12
Manifest Number:	010868330FLE
Line Number:	2
Method Code:	H121
Quantity Tons:	0.04850
Quantity Waste:	97.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D002
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2018-03-12
Manifest Number:	010868330FLE
Line Number:	3
Method Code:	H141

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Quantity Tons:	0.02300
Quantity Waste:	46.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2018-03-12
Manifest Number:	010868330FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.02300
Quantity Waste:	46.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035
State:	
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2018-03-12
Manifest Number:	010868330FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01700
Quantity Waste:	34.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2018-03-12
Manifest Number:	010868330FLE
Line Number:	2
Method Code:	H121
Quantity Tons:	0.04850
Quantity Waste:	97.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	122
Year:	2018
EM Manifest ID:	010868330FLE20180312_D_1
Generator EPA ID:	CAL000390933

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Shipment Date: 2018-03-12
Manifest Number: 010868330FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.02300
Quantity Waste: 46.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 214

Year: 2018
EM Manifest ID: 010868331FLE20180312_D_1
Shipment Date: 3/12/2018
Receipt Date: 3/28/2018
Manifest Number: 010868331FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #3447
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES LLC
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

State:
Year: 2018
EM Manifest ID: 010868331FLE20180312_D_1
Generator EPA ID: CAL000390933
Shipment Date: 2018-03-12
Manifest Number: 010868331FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.04350
Quantity Waste: 87.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010868331FLE20180312_D_1
Generator EPA ID: CAL000390933

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Shipment Date: 2018-03-12
Manifest Number: 010868331FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.06100
Quantity Waste: 122.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010788904FLE20171218_D_1
Shipment Date: 12/18/2017
Receipt Date: 1/5/2018
Manifest Number: 010788904FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #3447
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: AZR000515924
TSDf Name: YUMA YES LLC
TSDf Address 1: Not reported
TSDf Address 2: Not reported
TSDf City: Not reported
TSDf Zip: Not reported
TSDf Telephone: Not reported

State:

Year: 2018
EM Manifest ID: 010788904FLE20171218_D_1
Generator EPA ID: CAL000390933
Shipment Date: 2017-12-18
Manifest Number: 010788904FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.07400
Quantity Waste: 148.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010788904FLE20171218_D_1
Generator EPA ID: CAL000390933

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Shipment Date:	2017-12-18
Manifest Number:	010788904FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.04950
Quantity Waste:	99.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010788903FLE20171218_D_1
Shipment Date:	12/18/2017
Receipt Date:	1/15/2018
Manifest Number:	010788903FLE
Generator EPA ID:	CAL000390933
Name:	DOLLAR TREE #3447
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NED986382133
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21ST CENTURY EMN LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported
Federal:	
Year:	2018
EM Manifest ID:	010788903FLE20171218_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2017-12-18
Manifest Number:	010788903FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01300
Quantity Waste:	26.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010788903FLE20171218_D_1
Generator EPA ID:	CAL000390933

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Shipment Date:	2017-12-18
Manifest Number:	010788903FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01300
Quantity Waste:	26.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035
Year:	2018
EM Manifest ID:	010788903FLE20171218_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2017-12-18
Manifest Number:	010788903FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01050
Quantity Waste:	21.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010788903FLE20171218_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2017-12-18
Manifest Number:	010788903FLE
Line Number:	3
Method Code:	H121
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D002
State:	
Year:	2018
EM Manifest ID:	010788903FLE20171218_D_1
Generator EPA ID:	CAL000390933
Shipment Date:	2017-12-18
Manifest Number:	010788903FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01300
Quantity Waste:	26.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Year: 2018
EM Manifest ID: 010788903FLE20171218_D_1
Generator EPA ID: CAL000390933
Shipment Date: 2017-12-18
Manifest Number: 010788903FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.01050
Quantity Waste: 21.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 010788903FLE20171218_D_1
Generator EPA ID: CAL000390933
Shipment Date: 2017-12-18
Manifest Number: 010788903FLE
Line Number: 3
Method Code: H121
Quantity Tons: 0.01500
Quantity Waste: 30.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 122

Year: 2018
EM Manifest ID: 201693
Shipment Date: 11/19/2018
Receipt Date: 12/18/2018
Manifest Number: 012118726FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE
Address: 8126 SHELDON ROAD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 775-575-2760
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: NVD980895338
TSDf Name: 21st Century Environmental Management of Nevada, LLC
TSDf Address 1: 2095 Newlands Drive East
TSDf Address 2: Not reported
TSDf City: Fernley
TSDf Zip: 89408
TSDf Telephone: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Federal:

Year: 2018
EM Manifest ID: 201693
Generator EPA ID: CAL000390933
Shipment Date: 2018-11-19
Manifest Number: 012118726FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2018
EM Manifest ID: 201693
Generator EPA ID: CAL000390933
Shipment Date: 2018-11-19
Manifest Number: 012118726FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.02300
Quantity Waste: 46.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D001

Year: 2018
EM Manifest ID: 201693
Generator EPA ID: CAL000390933
Shipment Date: 2018-11-19
Manifest Number: 012118726FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.02300
Quantity Waste: 46.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D035

State:

Year: 2018
EM Manifest ID: 201693
Generator EPA ID: CAL000390933
Shipment Date: 2018-11-19
Manifest Number: 012118726FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00500
Quantity Waste: 10.000000

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 122

Year: 2018
EM Manifest ID: 201693
Generator EPA ID: CAL000390933
Shipment Date: 2018-11-19
Manifest Number: 012118726FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2018
EM Manifest ID: 201693
Generator EPA ID: CAL000390933
Shipment Date: 2018-11-19
Manifest Number: 012118726FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.02300
Quantity Waste: 46.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 214

Year: 2018
EM Manifest ID: 198599
Shipment Date: 11/19/2018
Receipt Date: 12/3/2018
Manifest Number: 012118727FLE
Generator EPA ID: CAL000390933
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
Address 2: Not reported
City: ELK GROVE
Zip: 95758-5928
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 916-689-4322
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDf EPA ID: AZR000515924
TSDf Name: YUMA YES WASTE TRANSFER FACILITY

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDf Address 1:	2730 E 13TH ST
TSDf Address 2:	Not reported
TSDf City:	YUMA
TSDf Zip:	85365-1901
TSDf Telephone:	Not reported
State:	
Year:	2018
EM Manifest ID:	198599
Generator EPA ID:	CAL000390933
Shipment Date:	2018-11-19
Manifest Number:	012118727FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.04950
Quantity Waste:	99.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331
Year:	2018
EM Manifest ID:	198599
Generator EPA ID:	CAL000390933
Shipment Date:	2018-11-19
Manifest Number:	012118727FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.05400
Quantity Waste:	108.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331
Additional Info:	
Year:	2017
Gen EPA ID:	CAL000390933
Shipment Date:	20171218
Creation Date:	10/24/2018 18:30:33
Receipt Date:	20180115
Manifest ID:	010788903FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMN LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Quantity Tons:	Treatment/Reovery (H010-H129) Or (H131-H135) 0.013
Waste Quantity:	26
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171218
Creation Date:	10/16/2018 18:30:53
Receipt Date:	20180105
Manifest ID:	010788904FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLD WIDE RECOVERY SYSTEMS
TSDf EPA ID:	AZR000515924
Trans Name:	YUMA YES LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171218
Creation Date:	10/16/2018 18:30:53
Receipt Date:	20180105
Manifest ID:	010788904FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLD WIDE RECOVERY SYSTEMS
TSDf EPA ID:	AZR000515924
Trans Name:	YUMA YES LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.074
Waste Quantity:	148
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171218
Creation Date:	10/24/2018 18:30:33
Receipt Date:	20180115
Manifest ID:	010788903FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMN LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H121 - Neutralization Only
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171218
Creation Date:	10/24/2018 18:30:33
Receipt Date:	20180115
Manifest ID:	010788903FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMN LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0105
Waste Quantity:	21
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170818
Creation Date:	8/1/2018 18:31:20
Receipt Date:	20170907
Manifest ID:	010076597FLE
Trans EPA ID:	MNS000110924

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMN LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.072
Waste Quantity:	144
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170818
Creation Date:	8/1/2018 18:31:20
Receipt Date:	20170907
Manifest ID:	010076597FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDf EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMN LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1525
Waste Quantity:	305
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170508
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009156050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.042
Waste Quantity:	84
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170508
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009156050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.051
Waste Quantity:	102
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170508
Creation Date:	5/9/2018 18:31:26
Receipt Date:	20170511
Manifest ID:	009156050FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2016
Gen EPA ID: CAL000390933

Shipment Date: 20151221
Creation Date: 3/22/2016 22:15:44
Receipt Date: 20151223
Manifest ID: 008464825FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 122 - Alkaline solution without metals (pH > 12.5)
RCRA Code: D002
Meth Code: - Not reported
Quantity Tons: 0.0055
Waste Quantity: 11
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151221
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008464825FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.045
Waste Quantity: 90
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Shipment Date: 20151221
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008464825FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.0115
Waste Quantity: 23
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151221
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008464825FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.0325
Waste Quantity: 65
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151221
Creation Date: 3/22/2016 22:15:44
Receipt Date: 20151223
Manifest ID: 008464825FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151223
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151223
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	- Not reported
Quantity Tons:	0.005

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151006
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008464630FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.019
Waste Quantity:	38
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151006
Creation Date:	12/16/2015 22:15:07
Receipt Date:	20151007
Manifest ID:	008464630FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Shipment Date: 20151006
Creation Date: 12/16/2015 22:15:07
Receipt Date: 20151007
Manifest ID: 008464630FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0795
Waste Quantity: 159
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2015
Gen EPA ID: CAL000390933

Shipment Date: 20151221
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008464825FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.045
Waste Quantity: 90
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151221
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008464825FLE

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0115
Waste Quantity:	23
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151223
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151223
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5)
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151223
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	3/22/2016 22:15:44
Receipt Date:	20151223
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	- Not reported
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151221
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008464825FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151006
Creation Date:	12/16/2015 22:15:07
Receipt Date:	20151007
Manifest ID:	008464630FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151006
Creation Date:	12/16/2015 22:15:07
Receipt Date:	20151007
Manifest ID:	008464630FLE

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.007
Waste Quantity: 14
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151006
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008464630FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.043
Waste Quantity: 86
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2014
Gen EPA ID: CAL000390933

Shipment Date: 20141208
Creation Date: 2/24/2015 22:15:05
Receipt Date: 20141212
Manifest ID: 007228170FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141208
Creation Date:	2/24/2015 22:15:05
Receipt Date:	20141212
Manifest ID:	007228170FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141208
Creation Date:	2/24/2015 22:15:05
Receipt Date:	20141212
Manifest ID:	007228170FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite,

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DOLLAR TREE #03447 (Continued)

S118234286

perchlorate, and sulfide anions
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0125
Waste Quantity: 25
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported
Shipment Date: 20141208
Creation Date: 2/24/2015 22:15:05
Receipt Date: 20141212
Manifest ID: 007228170FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0055
Waste Quantity: 11
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported
Shipment Date: 20141208
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 007228170FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0265
Waste Quantity: 53
Quantity Unit: P

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141208
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007228170FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0385
Waste Quantity:	77
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141020
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141022
Manifest ID:	007196563FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDf EPA ID:	CAD980884183
Trans Name:	GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID:	Not reported
TSDf Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141020

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Creation Date: 12/26/2014 22:14:59
Receipt Date: 20141022
Manifest ID: 007196563FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D035
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0085
Waste Quantity: 17
Quantity Unit: P
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141020
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 007196563FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.003
Waste Quantity: 6
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141020
Creation Date: 12/26/2014 22:14:59
Receipt Date: 20141022
Manifest ID: 007196563FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported

Map ID
Direction
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Elevation

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Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

TSDF EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0585
Waste Quantity: 117
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: DOLLAR TREE #03447
Address: 8126 SHELDON RD
City,State,Zip: ELK GROVE, CA 95758
Site ID: 25850
CERS ID: 10467889
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: 40 CFR 1 265.172 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.172
Violation Description: Failure to accumulate or store hazardous waste in a lined/compatible container.
Violation Notes: Returned to compliance on 04/23/2014. OBSERVATION: Six cardboard boxes containing hazardous waste (liquid wastes observed in the the boxes) are being used as overflow containers for hazardous waste because the facility does not have enough suitable hazardous waste containers. CORRECTIVE ACTION: Submit photos to this department demonstrating the hazardous wastes have been transferred into suitable containers.
Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description: Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes: Returned to compliance on 04/10/2014. OBSERVATION: The emergency response plan and procedures submitted to this department did not indicate a location for the Hazardous Materials/Waste Storage Area in the 'Earthquake Vulnerability' section. CORRECTIVE ACTION: Revise the emergency response plan and procedures to include all required content and submit electronically in this department's e-Reporting Portal or in the California Environmental Reporting System. Notify me when the

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Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

revised HMBP is submitted.
Violation Division: Sacramento County Env Management Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 04/23/2014. OBSERVATION: Free standing liquid was observed in the hazardous waste 'State Regulated, Toxics, OTC Pharmaceuticals & Universal Waste' container. CORRECTIVE ACTION: Submit photos/documentation to this department demonstrating the spill has been properly removed and managed.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Description: Failure to properly dispose of hazardous waste at an authorized location.
Violation Notes: Returned to compliance on 04/23/2014. OBSERVATION: Before November 2013, facility failed to do a proper waste determination and hazardous waste was disposed of to the trash and sewer (unauthorized locations). CORRECTIVE ACTION: Submit a copy of the hazardous waste manifest after your first pickup demonstrating your hazardous wastes are being properly disposed of.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 07-15-2022
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 03/16/2023. OBSERVATION: The final signed Uniform Hazardous Waste Manifests for 2021 were not available at the time of inspection. CORRECTIVE ACTION: Submit a statement to this department documenting where the final signed Uniform Hazardous Waste Manifests are mailed and how they are tracked to ensure the disposal facility received the waste.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 02-24-2017
Citation: HSC 6.5 25160(b)(3) - California Health and Safety Code, Chapter 6.5, Section(s) 25160(b)(3)
Violation Description: Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 45 days of the date the waste was accepted by the initial transporter.
Violation Notes: Returned to compliance on 03/06/2017. OBSERVATION: The final signed copy of manifest 008664564FLE dated 12/7/2016 was not available for review. An Exception Report was not submitted to the California Department of Toxic Substances Control for 008664564FLE dated 12/7/2016. CORRECTIVE ACTION: Either locate a copy of the missing manifests or prepare and submit an exception report to DTSC. Submit copies to this department.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 06/10/2014. OBSERVATION: The training program for safe handling of hazardous materials has not been adequately implemented as demonstrated by the facility being unaware and not having access to Safety Data Sheets (SDS) for the hazardous materials that are handled in the store. CORRECTIVE ACTION: Submit a statement to this department demonstrating the facility has access to SDS for hazardous materials handled in the store.

Violation Division: Sacramento County Env Management Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 07-15-2022
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 03/16/2023. OBSERVATION: One container of oxidizing hazardous waste located in the hazardous waste accumulation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

area was observed without the physical state of the waste and was missing the accumulation start date. CORRECTIVE ACTION: Submit a photo to this department demonstrating that the container listed above has been properly labeled.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
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 03/21/2014. OBSERVATION: The HMBP is not accessible. CORRECTIVE ACTION: A copy was provided to Jeff Lawley at the time of the inspection. No further action is required.

Violation Division: Sacramento County Env Management Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)

Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 04/22/2014. OBSERVATION: Employees are not thoroughly familiar with proper waste handling and emergency procedures as demonstrated by the number and type of hazardous waste violations observed at the time of inspection. CORRECTIVE ACTION: Submit documentation to this department demonstrating that employees have been properly trained.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: 22 CCR 12 66262.20 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.20

Violation Description: Failure to prepare a hazardous waste manifest for the transport of a hazardous waste for off-site transfer, treatment, storage, or disposal.
Violation Notes: Returned to compliance on 04/23/2014. OBSERVATION: Before November 2013, facility failed to do a proper waste determination and hazardous waste was disposed of to the trash and sewer (unauthorized locations). CORRECTIVE ACTION: Submit a copy of the hazardous waste manifest after your first pickup demonstrating your hazardous wastes are being properly documented on a Uniform Hazardous Waste Manifest.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 04/10/2014. OBSERVATION: An incomplete HMBP (see violations Q354 & Q355) was submitted November 21, 2013. CORRECTIVE ACTION: Revise and submit an HMBP electronically in this department's e-Reporting Portal or in the California Environmental Reporting System and implement immediately. Notify me when the revised HMBP is submitted.
Violation Division: Sacramento County Env Management Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 04/23/2014. OBSERVATION: Before November 2013, the facility failed to do a proper waste determination and hazardous waste was disposed of in the trash and sewer (unauthorized locations). During the inspection, several waste items were mis-characterized and placed in the incorrect hazardous waste accumulation container (ex. Ajax with bleach placed in hazardous waste corrosives base container. The Dollar Tree hazardous materials handling and processing training guide states that bathroom cleaners with bleach should be placed in the 'Oxidizer-Ox' container). CORRECTIVE ACTION: Submit employee training documentation demonstrating that the employees responsible for the hazardous waste accumulation area are familiar with proper hazardous waste determination.
Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 04/10/2014. OBSERVATION: The annotated site map submitted to this department does not include the hazardous waste storage area, north facing arrow, adjacent streets, storm or sewer drains (if applicable), emergency shutoffs, evacuation staging area, and locations of emergency response equipment. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in this department's e-Reporting Portal or in the California Environmental Reporting System. Notify me when the revised HMBP is submitted.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Violation Division: Sacramento County Env Management Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Violation Date: 03-21-2014
Citation: HSC 6.5 25163(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25163(a)

Violation Description: Failure to use a registered hazardous waste hauler to transport hazardous waste.

Violation Notes: Returned to compliance on 04/23/2014. OBSERVATION: Before November 2013, facility failed to do a proper waste determination and hazardous waste was disposed of to the trash and sewer (unauthorized locations). CORRECTIVE ACTION: Submit a copy of the hazardous waste manifest after your first pickup demonstrating your hazardous wastes are being transported by a registered hazardous waste transporter.

Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-23-2017
Violations Found: No
Eval Type: Routine done by local agency

Eval Notes: Not reported
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Sacramento County Env Management Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed today.
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection report emailed to Aundrea Allen (aundrea519@yahoo.com)
Eval Division: Sacramento County Env Management Department
Eval Program: HW
Eval Source: CERS,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-23-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Sacramento County Env Management Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-24-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed today
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Sacramento County Env Management Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-24-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Sacramento County Env Management Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed today. Inspection report emailed to Aundrea Allen (aundrea519@yahoo.com)
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 25850

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Site Name: Dollar Tree #03447
Site Address: 8126 SHELDON RD
Site City: ELK GROVE
Site Zip: 95758
Enf Action Date: 03-21-2014
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: Sacramento County Env Management Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 25850
Site Name: Dollar Tree #03447
Site Address: 8126 SHELDON RD
Site City: ELK GROVE
Site Zip: 95758
Enf Action Date: 06-30-2014
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: Sacramento County Env Management Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:

Site ID: 25850
Facility Name: Dollar Tree #03447
Env Int Type Code: HWG
Program ID: 10467889
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.436510
Longitude: -121.407700

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: JOSE FIGUEROA
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: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Silvestre Luna
Entity Title: Not reported
Affiliation Address: 1122 Runway Drive
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95206
Affiliation Phone: ,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Affiliation Type Desc: Parent Corporation
Entity Name: Dollar Tree Stores, Inc.
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: ,

Affiliation Type Desc: Property Owner
Entity Name: Laguna French, LLC c/o Fairway Management
Entity Title: Not reported
Affiliation Address: 20085 Fairway Court
Affiliation City: Woodbridge
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95258
Affiliation Phone: (209) 334-3113,

Affiliation Type Desc: CUPA District
Entity Name: Sacramento County Environmental Management Departm
Entity Title: Not reported
Affiliation Address: 11080 WHITE ROCK ROAD, STE. 200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95670
Affiliation Phone: (916) 875-8550,

Affiliation Type Desc: Legal Owner
Entity Name: Dollar Tree Stores, Inc
Entity Title: Not reported
Affiliation Address: 500 Volvo Pkwy
Affiliation City: Chesapeake
Affiliation State: VA
Affiliation Country: United States
Affiliation Zip: 23320
Affiliation Phone: (757) 321-5000,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 500 Volvo Pkwy
Affiliation City: Chesapeake
Affiliation State: VA
Affiliation Country: Not reported
Affiliation Zip: 23320
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Jose Figueroa
Entity Title: EH&S Specialist
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DOLLAR TREE #03447 (Continued)

S118234286

Affiliation Zip: Not reported
 Affiliation Phone: ,
 Affiliation Type Desc: Operator
 Entity Name: Dollar Tree Stores, Inc
 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: (757) 321-5000,

E18
NNE
1/4-1/2
0.441 mi.
2328 ft.

OBIE'S DUMP
8437 SHELDON ROAD
ELK GROVE, CA 95624
Site 1 of 2 in cluster E

ENVIROSTOR **S106707862**
CPS-SLIC **N/A**
VCP
LIENS

Relative:
Higher
Actual:
35 ft.

ENVIROSTOR:
 Name: OBIE'S DUMP
 Address: 8437 SHELDON ROAD
 City,State,Zip: ELK GROVE, CA 95624
 Facility ID: 60001365
 Status: Active
 Status Date: 06/23/2022
 Site Code: 101726
 Site Type: Voluntary Cleanup
 Site Type Detailed: Voluntary Agreement
 Acres: 1.5
 NPL: NO
 Regulatory Agencies: SMBRP, IWMB, SACRAMENTO COUNTY
 Lead Agency: SMBRP
 Program Manager: Mckinley Lewis Jr.
 Supervisor: Juan Peng
 Division Branch: Cleanup Sacramento
 Assembly: 10
 Senate: 08
 Special Program: Voluntary Agreement - Standard Voluntary Agreement
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: Responsible Party
 Latitude: 38.44098
 Longitude: -121.3960
 APN: NONE SPECIFIED
 Past Use: LDF, LANDFILL - CONSTRUCTION
 Potential COC: Lead
 Confirmed COC: Lead
 Potential Description: OTH, SOIL
 Alias Name: Obies Dump
 Alias Type: Alternate Name
 Alias Name: SL0606728284
 Alias Type: GeoTracker Global ID
 Alias Name: 101726
 Alias Type: Project Code (Site Code)
 Alias Name: 60001365
 Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 08/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 01/25/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/04/2021
Comments: Post Triage Meeting Memo.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Notice of Intent to Place a Lien
Completed Date: 12/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 02/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/16/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 09/12/2018
Comments: 2nd demand letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/06/2018
Comments: 2018 Collection letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Completed Document Type: Triage Meeting
Completed Date: 12/28/2020
Comments: Decision from meeting: Issue an Intent to Place a Lien letter to RP.
If no response, a lien will be levied again the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/09/2012
Comments: Report received. No response letter sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 05/17/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 04/08/2004
Comments: Completed application.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/14/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 09/13/2004
Comments: Agreement signed by property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 10/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/30/2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Comments: Third and final demand letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/04/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 12/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 11/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 08/18/2014
Comments: Signed Pre-HARP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/04/2014
Comments: Mr. Pino is notified of our decision to update the property's status to "Inactive-Action Required".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/21/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC REG 5:

Name: Obie's Dump**
Address: 8437 Sheldon Rd
City: Elk Grove
Region: 5
Facility Status: Preliminary Assessment
Unit: Facility is a Spill or site
Pollutant: Pb, Zn
Lead Agency: DTSC
Date Filed: 08/24/04
Report Date: / /
Date Added: 10/13/2004
Date Closed: Not reported

CPS-SLIC:

Name: OBIE'S DUMP
Address: 8437 SHELDON ROAD
City,State,Zip: ELK GROVE, CA
Region: STATE
Facility Status: Open - Inactive
Status Date: 09/02/2004
Global Id: SL0606728284
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number: 60001365
Latitude: 38.438102
Longitude: -121.393418
Case Type: Cleanup Program Site
Case Worker: JLT
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Lead
EPA Region: 9
Coordinate Source: Google Geocode
Cuf Case: NO
Quantity Released Gallons: Not reported
Begin Date: 09/01/2004
Leak Reported Date: Not reported
How Discovered: Not reported
How Discovered Description: Not reported
Discharge Source: Not reported
Discharge Cause: Not reported
Stop Method: Not reported
Stop Description: Not reported
No Further Action Date: Not reported
CA Water Watershed Name: Valley-American - Morrison Creek - Franklin (519.11)
Dwr Groundwater Subbasin Name: Sacramento Valley - South American (5-021.65)
Disadvantaged Community: Not reported
CA Enviroscreen 3 Score: 51-55%
CA Enviroscreen 4 Score: 55-60%
Military DOD Site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Facility Project Subtype: Not reported
RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5S)
Site History: DTSC is lead agency. Trenching and sampling was conducted and reported in 2003. The results show lead is above screening levels in soil.

[Click here to access the California GeoTracker records for this facility:](#)

VCP:

Name: OBIE'S DUMP
Address: 8437 SHELDON ROAD
City,State,Zip: ELK GROVE, CA 95624
Facility ID: 60001365
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Agreement
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, IWMB, SACRAMENTO COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Mckinley Lewis Jr.
Supervisor: Juan Peng
Division Branch: Cleanup Sacramento
Site Code: 101726
Assembly: 10
Senate: 08
Special Programs Code: Voluntary Agreement - Standard Voluntary Agreement
Status: Active
Status Date: 06/23/2022
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 38.44098 / -121.3960
APN: NONE SPECIFIED
Past Use: LDF, LANDFILL - CONSTRUCTION
Potential COC: 30013
Confirmed COC: 30013
Potential Description: OTH, SOIL
Alias Name: Obies Dump
Alias Type: Alternate Name
Alias Name: SL0606728284
Alias Type: GeoTracker Global ID
Alias Name: 101726
Alias Type: Project Code (Site Code)
Alias Name: 60001365
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 08/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Completed Date: 04/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 01/25/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/04/2021
Comments: Post Triage Meeting Memo.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Notice of Intent to Place a Lien
Completed Date: 12/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 02/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/16/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 09/12/2018
Comments: 2nd demand letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/06/2018
Comments: 2018 Collection letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 12/28/2020
Comments: Decision from meeting: Issue an Intent to Place a Lien letter to RP.
If no response, a lien will be levied again the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/09/2012
Comments: Report received. No response letter sent.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 05/17/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 04/08/2004
Comments: Completed application.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/14/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 09/13/2004
Comments: Agreement signed by property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 10/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/30/2012
Comments: Third and final demand letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/04/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Completed Date: 12/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 11/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 08/18/2014
Comments: Signed Pre-HARP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/04/2014
Comments: Mr. Pino is notified of our decision to update the property's status to "Inactive-Action Required".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/21/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LIENS:

Name: OBIE'S DUMP
City,State,Zip: ELK GROVE, CA 95624
Envirostor Id: 60001365
Latitude: 38.440985
Longitude: -121.39609
Project Mgr: MCKINLEY LEWIS JR.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

OBIE'S DUMP (Continued)

S106707862

Project Code: 101726
 If Satisfied: NO
 Date Satisfied: Not reported
 Site Status: ACTIVE
 Site Type: VOLUNTARY AGREEMENT
 Completed: 10/09/2013
 Lien Amount: \$21,887.54
 Amount Remaining: Not reported
 APNS: Not reported
 Description: The Obie's Dump (Site) includes a portion of the property located at Sheldon Road, Elk Grove, Sacramento County, California 95624. The approximate 1.5 acre portion of the property was once an excavated area used as a "borrow site", landfill and burn dump known as Obie's Dump. The area is now a crescent shaped depression along the east boundary of the property. In a letter dated March 21, 1992, the SCEHD identified that the site was in noncompliance of the Mitigation Monitoring and Reporting Program. The SCEHD as the Local Enforcement Agency (LEA) is responsible for solid waste permitting, inspection, enforcement and the regulation of closed disposal sites. In subsequent complaints of illegal dumping of debris and household waste, the LEA inspected and issued a Notice of Violation to the property owner. At the request of the property owner and in anticipation of future development of the property, LEA staff agreed to provide regulatory oversight and guidance of the proposed Site investigation. With this oversight, the property owner completed an investigation work plan and conducted soil trenching and sampling. The results of the Site investigation are reported in the May 12, 2003, Landfill Characterization and Environmental Sampling Report. The results show that there is lead in soils above the California Code of Regulations Total Threshold Limit Concentration which defines a toxic characteristic hazardous waste.

E19
NNE
1/4-1/2
0.441 mi.
2328 ft.

OBIE'S DUMP
8437 SHELDON ROAD
SACRAMENTO, CA 95838
Site 2 of 2 in cluster E

SWF/LF **S105964602**
CERS **N/A**

Relative:
Higher
Actual:
35 ft.

SWF/LF (SWIS):
 Name: OBIE'S DUMP
 Address: 8437 SHELDON ROAD
 City,State,Zip: SACRAMENTO, CA 95624
 Region: STATE
 Facility ID: 34-CR-5007
 SWIS Number: 34-CR-5007
 Point of Contact: Dawn Liang
 Is Archived: No
 Is Closed Illegal Abandoned: Yes
 Is Site Inert Debris Engineered Fill: No
 Is Financial Assurances Responsible: No
 Absorbed On: Not reported
 Operational Status: Closed
 Absorbed By: Not reported
 Closed Illegal Abandoned Category: C1
 EPA Federal Registry ID: Not reported
 ARB District: Sacramento Metro
 SWRCB Region: Central Valley
 Local Government: Sacramento

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S105964602

Reporting Agency Legal Name: County of Sacramento
Reporting Agency Department: Environmental Management Department, Environmental Compliance Division
Enforcing Agency Legal Name: County of Sacramento
Enforcing Agency Department: Environmental Management Department, Environmental Compliance Division
Regulation Status: Unpermitted

Activity:
SWIS Number: 34-CR-5007
Site Name: Obie's Dump
Activity: Solid Waste Disposal Site
Activity Is Archived: No
Category: Disposal
Activity Classification: Solid Waste Disposal Site
WDR Number: Not reported
WDR Landfill Class: Not reported
Cease Operation: Not reported
Cease Operation Type: Not reported
Inspection Frequency: Annual
Throughput: Not reported
Throughput Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity Date: Not reported
Capacity: Not reported
Capacity Units: Not reported
Total Acreage: 0
Disposal Acreage: 0
Permitted Elevation: Not reported
Permitted Elevation Type: Not reported
Permitted Depth: Not reported
Permitted Depth Type: Not reported
Point of Contact: Dawn Liang
Site Operational Status: Closed
Site Regulatory Status: Unpermitted
Site Is Archived: No
Is Closed Illegal Abandoned: Yes
Is Site Inert Debris Engineered Fill: No
Is Financial Assurances Responsible: No
Absorbed On: Not reported
Absorbed By: Not reported
Closed Illegal Abandoned Category: C1
EPA Federal Registry ID: Not reported
County: Sacramento
ARB District: Sacramento Metro
SWRCB Region: Central Valley
Local Government: Sacramento
Street Address: 8437 Sheldon Road
City: Sacramento
State: CA
ZIP Code: 95624
Reporting Agency Legal Name: County of Sacramento
Reporting Agency Department: Environmental Management Department, Environmental Compliance Division
Enforcing Agency Legal Name: County of Sacramento
Enforcing Agency Department: Environmental Management Department, Environmental Compliance Division

Operator:
SWIS Number: 34-CR-5007
Site Name: Obie's Dump

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S105964602

Site Operational Status: Closed
Site Type: Disposal Only
Site Regulatory Status: Unpermitted
Latitude: 38.44083
Longitude: -121.39556
Is Archived: No
Operator: Pino J & M
Started On: Not reported
Contact Name: James & Majorie Pino
Contact Title: Not reported
Contact Email: Not reported
Contact Phone: (916) 682-2847
Street Address: 7714 Bradshaw Rd
Operator City: Sacramento
Operator State: CA
Operator Zip: 95829

Owner:
SWIS Number: 34-CR-5007
Owner: Pino J & M
Owner Address: 7714 Bradshaw Rd
Owner City: Sacramento
Owner State: CA
Owner Zip: 95829
Site Name: Obie's Dump
Site Operational Status: Closed
Site Type: Disposal Only
Site Regulatory Status: Unpermitted
Latitude: 38.44083
Longitude: -121.39556
Is Archived: No
Started On: Not reported
Contact Name: James & Majorie Pino
Contact Title: Not reported
Contact Email: Not reported
Contact Phone: (916) 682-2847

CERS:
Name: OBIE'S DUMP
Address: 8437 SHELDON ROAD
City,State,Zip: SACRAMENTO, CA 95838
Site ID: 483973
CERS ID: 110013984153
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: JAMES L TJOSVOLD DEPT OF TOXIC SUBSTANCES
Entity Title: Not reported
Affiliation Address: 8800 CAL CENTER DRIVE
Affiliation City: SACRAMENTO
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OBIE'S DUMP (Continued)

S105964602

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ZZZ CTRL VLY RWQCB REGN 5S
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE 200
Affiliation City: RANCHOCORDOVA
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

**20
NW
1/4-1/2
0.448 mi.
2368 ft.**

**KALWANI PROPERTY
8151 SHELDON ROAD
ELK GROVE, CA 95758**

**ENVIROSTOR S102432113
Sacramento Co. CS N/A
VCP**

**Relative:
Higher
Actual:
29 ft.**

ENVIROSTOR:
Name: KALWANI PROPERTY
Address: 8151 SHELDON ROAD
City,State,Zip: ELK GROVE, CA 95758
Facility ID: 34880001
Status: No Further Action
Status Date: 12/31/1997
Site Code: 100949
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Agreement
Acres: 1.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Juan Peng
Division Branch: Cleanup Sacramento
Assembly: 10
Senate: 08
Special Program: Voluntary Agreement - Standard Voluntary Agreement
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 38.43953
Longitude: -121.4063
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: TPH-MOTOR OIL
Confirmed COC: TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: KALWANI PROPERTY
Alias Type: Alternate Name
Alias Name: 110033607201
Alias Type: EPA (FRS #)
Alias Name: 100949
Alias Type: Project Code (Site Code)
Alias Name: 34880001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KALWANI PROPERTY (Continued)

S102432113

Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 01/06/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/31/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 12/31/1997
Comments: VCONS -- DTSC entered into a VCA with a property owner to review documentation of a cleanup performed with Sacramento County oversight. DTSC provided NFA concurrence after reviewing the documentation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 09/22/1997
Comments: VCA -- DTSC entered into a Voluntary Cleanup Agreement with a property owner to review documentation of a cleanup performed with Sacramento County oversight. DTSC will provide comments on the cleanup.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Sacramento Co. CS:

Name: KALWANI PROPERTY
Address: 8151 SHELDON RD
City,State,Zip: ELK GROVE, CA
State Site Number: B371
Lead Staff: Erikson, S.
Lead Agency: HM
Remedial Action Taken: YE, S
Substance: Waste Oil
Date Reported: 06/14/1996
Facility Id: RO0001057
Case Type: Soil only
Case Closed: Y
Date Closed: Not reported
Case Type: Soil only affected
Substance: Waste Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KALWANI PROPERTY (Continued)

S102432113

VCP:

Name: KALWANI PROPERTY
Address: 8151 SHELDON ROAD
City,State,Zip: ELK GROVE, CA 95758
Facility ID: 34880001
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Agreement
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Juan Peng
Division Branch: Cleanup Sacramento
Site Code: 100949
Assembly: 10
Senate: 08
Special Programs Code: Voluntary Agreement - Standard Voluntary Agreement
Status: No Further Action
Status Date: 12/31/1997
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 38.43953 / -121.4063
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 3002502
Confirmed COC: 3002502
Potential Description: SOIL
Alias Name: KALWANI PROPERTY
Alias Type: Alternate Name
Alias Name: 110033607201
Alias Type: EPA (FRS #)
Alias Name: 100949
Alias Type: Project Code (Site Code)
Alias Name: 34880001
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 01/06/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/31/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 12/31/1997
Comments: VCONS -- DTSC entered into a VCA with a property owner to review

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KALWANI PROPERTY (Continued)

S102432113

documentation of a cleanup performed with Sacramento County oversight. DTSC provided NFA concurrence after reviewing the documentation.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Standard Voluntary Agreement
 Completed Date: 09/22/1997
 Comments: VCA -- DTSC entered into a Voluntary Cleanup Agreement with a property owner to review documentation of a cleanup performed with Sacramento County oversight. DTSC will provide comments on the cleanup.

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

21
 NNE
 1/2-1
 0.670 mi.
 3539 ft.

**ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE
 SHELDON ROAD/POWER INN ROAD
 ELK GROVE, CA 95624**

**ENVIROSTOR S118756770
 SCH N/A**

**Relative:
 Higher
 Actual:
 33 ft.**

ENVIROSTOR:
 Name: ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE
 Address: SHELDON ROAD/POWER INN ROAD
 City,State,Zip: ELK GROVE, CA 95624
 Facility ID: 34010012
 Status: No Action Required
 Status Date: 11/16/2001
 Site Code: 104239
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 11
 NPL: NO
 Regulatory Agencies: DTSC
 Lead Agency: DTSC
 Program Manager: Not reported
 Supervisor: Jose Salcedo
 Division Branch: Northern California Schools & Santa Susana
 Assembly: 10
 Senate: 08
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: School District
 Latitude: 38.44226
 Longitude: -121.3938
 APN: NONE SPECIFIED
 Past Use: AGRICULTURAL - ROW CROPS
 Potential COC: NONE SPECIFIED No Contaminants found
 Confirmed COC: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE (Continued)

S118756770

Potential Description: NMA
Alias Name: ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE
Alias Type: Alternate Name
Alias Name: ELK GROVE UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: ELK GROVE USD-ARCADIAN VILLAGE ELEM
Alias Type: Alternate Name
Alias Name: 104239
Alias Type: Project Code (Site Code)
Alias Name: 34010012
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 05/02/2002
Comments: Attached is the Initial Study with Proposed Mitigated Negative Declaration.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE
Address: SHELDON ROAD/POWER INN ROAD
City,State,Zip: ELK GROVE, CA 95624
Facility ID: 34010012
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE (Continued)

S118756770

Acres: 11
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 104239
Assembly: 10
Senate: 08
Special Program Status: Not reported
Status: No Action Required
Status Date: 11/16/2001
Restricted Use: NO
Funding: School District
Latitude: 38.44226
Longitude: -121.3938
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE
Alias Type: Alternate Name
Alias Name: ELK GROVE UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: ELK GROVE USD-ARCADIAN VILLAGE ELEM
Alias Type: Alternate Name
Alias Name: 104239
Alias Type: Project Code (Site Code)
Alias Name: 34010012
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 05/02/2002
Comments: Attached is the Initial Study with Proposed Mitigated Negative

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCADIAN VILLAGE ELEMENTARY SCHOOL SITE (Continued)

S118756770

Declaration.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

22
SW
1/2-1
0.766 mi.
4042 ft.

LAGUNA STONELAKE ELEMENTARY NO. 34
LOT F/LAGUNA STONELAKE
ELK GROVE, CA 95758

ENVIROSTOR S118756769
SCH N/A

Relative:
Higher
Actual:
33 ft.

ENVIROSTOR:
Name: LAGUNA STONELAKE ELEMENTARY NO. 34
Address: LOT F/LAGUNA STONELAKE
City,State,Zip: ELK GROVE, CA 95758
Facility ID: 34010006
Status: No Action Required
Status Date: 04/25/2000
Site Code: 104104
Site Type: School Investigation
Site Type Detailed: School
Acres: Not reported
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Northern California Schools & Santa Susana
Assembly: 10
Senate: 08
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.42218
Longitude: -121.4094
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: ELK GROVE USD
Alias Type: Alternate Name
Alias Name: ELK GROVE USD-LAGUNA STONELK ELEM#34/CDE
Alias Type: Alternate Name
Alias Name: LAGUNA STONELAKE ELEMENTARY #34
Alias Type: Alternate Name
Alias Name: 104104
Alias Type: Project Code (Site Code)
Alias Name: 34010006
Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LAGUNA STONELAKE ELEMENTARY NO. 34 (Continued)

S118756769

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/25/2000
Comments: PHSE1 - Pursuant to an agreement between the Department of Toxic substances Control (DTSC) and the California Department of Education, DTSC's Site Mitigation Program completed a review of a Phase I Environmental Assessment and has determined that No Action is necessary.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: LAGUNA STONELAKE ELEMENTARY NO. 34
Address: LOT F/LAGUNA STONELAKE
City,State,Zip: ELK GROVE, CA 95758
Facility ID: 34010006
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: Not reported
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Not reported
Division Branch: Northern California Schools & Santa Susana
Site Code: 104104
Assembly: 10
Senate: 08
Special Program Status: Not reported
Status: No Action Required
Status Date: 04/25/2000
Restricted Use: NO
Funding: School District
Latitude: 38.42218
Longitude: -121.4094
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LAGUNA STONELAKE ELEMENTARY NO. 34 (Continued)

S118756769

Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: ELK GROVE USD
Alias Type: Alternate Name
Alias Name: ELK GROVE USD-LAGUNA STONELK ELEM#34/CDE
Alias Type: Alternate Name
Alias Name: LAGUNA STONELAKE ELEMENTARY #34
Alias Type: Alternate Name
Alias Name: 104104
Alias Type: Project Code (Site Code)
Alias Name: 34010006
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/25/2000
Comments: PHSE1 - Pursuant to an agreement between the Department of Toxic substances Control (DTSC) and the California Department of Education, DTSC's Site Mitigation Program completed a review of a Phase I Environmental Assessment and has determined that No Action is necessary.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 8 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ELK GROVE	S121689668	W STOCKTON BLVD BRIDGE REPLACEMENT	LAGUNA CREEK AT W STOCKTON BLV	95758	CIWQS
ELK GROVE	S121649546	LAGUNA CREEK	LAGUNA BLVD & BRUCEVILLE RD	95758	CIWQS
ELK GROVE	S119102374	GEORGIA-PACIFIC CHEMICAL CO	10399 STOCKTON BLVD		Sacramento Co. CS
SACRAMENTO	S106230355	14TH AVE LANDFILL- EAST PIT	14TH AVE AND POWER INN RD, EAS		CPS-SLIC
SACRAMENTO	S101481765	FRANKLIN FIELD COUNTY AIRPORT	BRUCEVILLE RD.	95823	ENVIROSTOR
SACRAMENTO	S121649536	LAGUNA CREEK DR	LAGUNA CREEK DR		CIWQS
SACRAMENTO	S121652501	LOWER LAGUNA CREEK	LOWER LAGUNA CREEK		CIWQS
SACRAMENTO	S104970714	PRICE CO/DWR - RETENTION POND	E STOCKTON BLVD		Sacramento Co. CS

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

Lists of Federal NPL (Superfund) sites

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: 12/26/2023	Source: EPA
Date Data Arrived at EDR: 01/02/2024	Telephone: N/A
Date Made Active in Reports: 01/24/2024	Last EDR Contact: 03/01/2024
Number of Days to Update: 22	Next Scheduled EDR Contact: 04/08/2024
	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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 12/26/2023	Source: EPA
Date Data Arrived at EDR: 01/02/2024	Telephone: N/A
Date Made Active in Reports: 01/24/2024	Last EDR Contact: 03/01/2024
Number of Days to Update: 22	Next Scheduled EDR Contact: 04/08/2024
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Lists of Federal Delisted NPL sites

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: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 12/20/2023
Date Data Arrived at EDR: 12/20/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/20/2023
Next Scheduled EDR Contact: 04/08/2024
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 known 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: 01/29/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/01/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/29/2024	Source: EPA
Date Data Arrived at EDR: 02/01/2024	Telephone: 800-424-9346
Date Made Active in Reports: 02/22/2024	Last EDR Contact: 03/06/2024
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023	Source: EPA
Date Data Arrived at EDR: 12/06/2023	Telephone: 800-424-9346
Date Made Active in Reports: 12/12/2023	Last EDR Contact: 12/06/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 04/01/2024
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 12/04/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2023	Telephone: (415) 495-8895
Date Made Active in Reports: 12/12/2023	Last EDR Contact: 12/06/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 04/01/2024
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 12/04/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2023	Telephone: (415) 495-8895
Date Made Active in Reports: 12/12/2023	Last EDR Contact: 12/06/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 04/01/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/04/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2023	Telephone: (415) 495-8895
Date Made Active in Reports: 12/12/2023	Last EDR Contact: 12/06/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 04/01/2024
	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: 12/04/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2023	Telephone: (415) 495-8895
Date Made Active in Reports: 12/12/2023	Last EDR Contact: 12/06/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 04/01/2024
	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: 08/03/2023	Source: Department of the Navy
Date Data Arrived at EDR: 08/07/2023	Telephone: 843-820-7326
Date Made Active in Reports: 10/10/2023	Last EDR Contact: 02/02/2024
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/20/2024
	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: 10/26/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2023	Telephone: 703-603-0695
Date Made Active in Reports: 02/13/2024	Last EDR Contact: 02/21/2024
Number of Days to Update: 88	Next Scheduled EDR Contact: 06/03/2024
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 10/26/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2023	Telephone: 703-603-0695
Date Made Active in Reports: 02/13/2024	Last EDR Contact: 02/21/2024
Number of Days to Update: 88	Next Scheduled EDR Contact: 06/03/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/12/2023

Date Data Arrived at EDR: 12/13/2023

Date Made Active in Reports: 02/28/2024

Number of Days to Update: 77

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 12/13/2023

Next Scheduled EDR Contact: 04/01/2024

Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

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: 10/23/2023

Date Data Arrived at EDR: 10/24/2023

Date Made Active in Reports: 01/11/2024

Number of Days to Update: 79

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 01/23/2024

Next Scheduled EDR Contact: 05/06/2024

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies 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: 10/23/2023

Date Data Arrived at EDR: 10/24/2023

Date Made Active in Reports: 01/11/2024

Number of Days to Update: 79

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 01/23/2024

Next Scheduled EDR Contact: 05/06/2024

Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/06/2023

Date Data Arrived at EDR: 11/07/2023

Date Made Active in Reports: 02/05/2024

Number of Days to Update: 90

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 02/06/2024

Next Scheduled EDR Contact: 05/20/2024

Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Quarterly

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 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 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	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	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	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	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	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	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	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	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

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: 10/25/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/17/2024	Telephone: 415-972-3372
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
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: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
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: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
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: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
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: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
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: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
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: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/04/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/05/2023	Telephone: 866-480-1028
Date Made Active in Reports: 02/27/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/17/2024
	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	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	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	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	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	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	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	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	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	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 11/16/2023
Date Data Arrived at EDR: 11/16/2023
Date Made Active in Reports: 02/13/2024
Number of Days to Update: 89

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/28/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/30/2023	Telephone: 916-327-7844
Date Made Active in Reports: 02/27/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/04/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/05/2023	Telephone: 866-480-1028
Date Made Active in Reports: 02/28/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/04/2023	Source: SWRCB
Date Data Arrived at EDR: 12/05/2023	Telephone: 916-341-5851
Date Made Active in Reports: 02/28/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 03/08/2024
Number of Days to Update: 69	Next Scheduled EDR Contact: 06/24/2024
	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: 10/24/2023	Source: EPA Region 9
Date Data Arrived at EDR: 01/17/2024	Telephone: 415-972-3368
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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: 10/24/2023	Source: EPA Region 6
Date Data Arrived at EDR: 01/17/2024	Telephone: 214-665-7591
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/24/2023	Source: EPA Region 8
Date Data Arrived at EDR: 01/17/2024	Telephone: 303-312-6137
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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: 10/24/2023	Source: EPA Region 7
Date Data Arrived at EDR: 01/17/2024	Telephone: 913-551-7003
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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: 10/24/2023	Source: EPA, Region 1
Date Data Arrived at EDR: 01/17/2024	Telephone: 617-918-1313
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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: 10/17/2023	Source: EPA Region 5
Date Data Arrived at EDR: 01/17/2024	Telephone: 312-886-6136
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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: 10/24/2023	Source: EPA Region 4
Date Data Arrived at EDR: 01/17/2024	Telephone: 404-562-9424
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	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: 10/24/2023	Source: EPA Region 10
Date Data Arrived at EDR: 01/17/2024	Telephone: 206-553-2857
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Lists of state and tribal voluntary cleanup sites

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: 10/23/2023	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/24/2023	Telephone: 916-323-3400
Date Made Active in Reports: 01/11/2024	Last EDR Contact: 01/23/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/06/2024
	Data Release Frequency: Quarterly

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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/12/2023
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/01/2024
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfields 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: 12/13/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/13/2023	Telephone: 916-323-7905
Date Made Active in Reports: 03/07/2024	Last EDR Contact: 12/13/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 04/01/2024
	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: 08/15/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/30/2023	Telephone: 202-566-2777
Date Made Active in Reports: 12/01/2023	Last EDR Contact: 03/12/2024
Number of Days to Update: 93	Next Scheduled EDR Contact: 06/24/2024
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 01/22/2024
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/06/2024
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 11/29/2023	Source: Department of Conservation
Date Data Arrived at EDR: 11/29/2023	Telephone: 916-323-3836
Date Made Active in Reports: 02/23/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 11/22/2022	Telephone: 916-341-6422
Date Made Active in Reports: 02/13/2023	Last EDR Contact: 02/20/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/20/2024
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/26/2024
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/06/2024
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/11/2024
Number of Days to Update: 137	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 01/17/2024
Number of Days to Update: 176	Next Scheduled EDR Contact: 05/06/2024
	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: 11/17/2023	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/17/2023	Telephone: 202-307-1000
Date Made Active in Reports: 02/07/2024	Last EDR Contact: 02/21/2024
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/03/2024
	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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	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: 10/23/2023	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/24/2023	Telephone: 916-323-3400
Date Made Active in Reports: 01/11/2024	Last EDR Contact: 01/23/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/06/2024
	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: 12/31/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/28/2023	Telephone: 916-255-6504
Date Made Active in Reports: 12/18/2023	Last EDR Contact: 03/08/2024
Number of Days to Update: 81	Next Scheduled EDR Contact: 05/13/2024
	Data Release Frequency: Varies

CERS HAZ WASTE: California Environmental Reporting System Hazardous 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
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: 11/17/2023
Date Data Arrived at EDR: 11/17/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Quarterly

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

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: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/16/2023	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/17/2023	Telephone: 916-323-2514
Date Made Active in Reports: 01/09/2024	Last EDR Contact: 01/16/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: Quarterly

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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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: 11/21/2023	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 11/22/2023	Telephone: 916-323-3400
Date Made Active in Reports: 02/16/2024	Last EDR Contact: 02/26/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/10/2024
	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: 11/14/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/22/2023	Telephone: 202-564-6023
Date Made Active in Reports: 01/24/2024	Last EDR Contact: 03/01/2024
Number of Days to Update: 33	Next Scheduled EDR Contact: 04/08/2024
	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: 11/22/2023	Source: DTSC and SWRCB
Date Data Arrived at EDR: 11/22/2023	Telephone: 916-323-3400
Date Made Active in Reports: 02/15/2024	Last EDR Contact: 02/27/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/10/2024
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/12/2023	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/13/2023	Telephone: 202-366-4555
Date Made Active in Reports: 02/28/2024	Last EDR Contact: 12/13/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 04/01/2024
	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: 06/01/2023	Source: Office of Emergency Services
Date Data Arrived at EDR: 07/18/2023	Telephone: 916-845-8400
Date Made Active in Reports: 10/05/2023	Last EDR Contact: 01/18/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/29/2024
	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: 12/04/2023	Source: State Water Quality Control Board
Date Data Arrived at EDR: 12/05/2023	Telephone: 866-480-1028
Date Made Active in Reports: 02/27/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/17/2024
	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: 12/04/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/05/2023	Telephone: 866-480-1028
Date Made Active in Reports: 02/28/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/17/2024
	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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
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: 09/28/2023
Date Data Arrived at EDR: 11/10/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 89

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/13/2024
Next Scheduled EDR Contact: 05/27/2024
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: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/10/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

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: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
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: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
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: 12/11/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 01/29/2024
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/13/2024
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 02/02/2024
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/13/2024
	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: 12/31/2020	Source: EPA
Date Data Arrived at EDR: 06/14/2022	Telephone: 202-260-5521
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 03/14/2024
Number of Days to Update: 283	Next Scheduled EDR Contact: 06/24/2024
	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: 12/31/2022	Source: EPA
Date Data Arrived at EDR: 11/13/2023	Telephone: 202-566-0250
Date Made Active in Reports: 02/07/2024	Last EDR Contact: 02/15/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/27/2024
	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: 10/19/2023	Source: EPA
Date Data Arrived at EDR: 10/20/2023	Telephone: 202-564-4203
Date Made Active in Reports: 01/16/2024	Last EDR Contact: 01/17/2024
Number of Days to Update: 88	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/26/2023	Source: EPA
Date Data Arrived at EDR: 01/02/2024	Telephone: 703-416-0223
Date Made Active in Reports: 01/24/2024	Last EDR Contact: 03/01/2024
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/10/2024
	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: 09/01/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/27/2023	Telephone: 202-564-8600
Date Made Active in Reports: 12/21/2023	Last EDR Contact: 01/12/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 04/19/2024
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	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: 09/19/2023	Source: EPA
Date Data Arrived at EDR: 10/03/2023	Telephone: 202-564-6023
Date Made Active in Reports: 10/19/2023	Last EDR Contact: 03/06/2024
Number of Days to Update: 16	Next Scheduled EDR Contact: 05/13/2024
	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: 03/20/2023	Source: EPA
Date Data Arrived at EDR: 04/04/2023	Telephone: 202-566-0500
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 01/05/2024
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/15/2024
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/26/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/15/2024
	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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: 01/02/2024	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 01/16/2024	Telephone: 301-415-0717
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 01/11/2024
Number of Days to Update: 57	Next Scheduled EDR Contact: 04/29/2024
	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: 12/31/2022	Source: Department of Energy
Date Data Arrived at EDR: 11/27/2023	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2024	Last EDR Contact: 02/23/2024
Number of Days to Update: 87	Next Scheduled EDR Contact: 06/10/2024
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 02/23/2024
Number of Days to Update: 251	Next Scheduled EDR Contact: 06/10/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/02/2024
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/13/2024
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 12/19/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/08/2024
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 01/05/2024
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/06/2024
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
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: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
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: 01/02/2024
Next Scheduled EDR Contact: 04/15/2024
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: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
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: 02/15/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/26/2024
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/01/2024
Next Scheduled EDR Contact: 04/08/2024
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 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/01/2023
Date Data Arrived at EDR: 11/17/2023
Date Made Active in Reports: 02/13/2024
Number of Days to Update: 88

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/21/2024
Next Scheduled EDR Contact: 06/03/2024
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: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 05/20/2024
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: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/22/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 02/22/2024
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/03/2024
	Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022	Source: USGS
Date Data Arrived at EDR: 11/22/2022	Telephone: 703-648-6533
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 02/22/2024
Number of Days to Update: 98	Next Scheduled EDR Contact: 06/03/2024
	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: 11/28/2023	Source: Department of Interior
Date Data Arrived at EDR: 11/29/2023	Telephone: 202-208-2609
Date Made Active in Reports: 12/11/2023	Last EDR Contact: 03/01/2024
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/17/2024
	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: 11/03/2023	Source: EPA
Date Data Arrived at EDR: 11/08/2023	Telephone: (415) 947-8000
Date Made Active in Reports: 11/20/2023	Last EDR Contact: 02/27/2024
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/10/2024
	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: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 02/20/2024
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/03/2024
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/17/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/22/2024
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: 11/10/2023
Date Data Arrived at EDR: 11/10/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 89

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/13/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2023	Telephone: 202-566-0250
Date Made Active in Reports: 01/04/2024	Last EDR Contact: 12/28/2023
Number of Days to Update: 7	Next Scheduled EDR Contact: 04/15/2024
	Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2023	Telephone: 202-272-0167
Date Made Active in Reports: 01/04/2024	Last EDR Contact: 12/28/2023
Number of Days to Update: 7	Next Scheduled EDR Contact: 04/15/2024
	Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/22/2024
Number of Days to Update: 601	Next Scheduled EDR Contact: 05/06/2024
	Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/28/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2023	Telephone: 202-272-0167
Date Made Active in Reports: 03/04/2024	Last EDR Contact: 12/28/2023
Number of Days to Update: 67	Next Scheduled EDR Contact: 04/15/2024
	Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 11/30/2023
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 02/26/2024
Number of Days to Update: 88

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/06/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 11/30/2023
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 02/23/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 11/30/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/30/2023	Telephone: 916-341-5455
Date Made Active in Reports: 02/23/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Varies

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: 12/13/2023	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 12/13/2023	Telephone: 916-323-3400
Date Made Active in Reports: 03/07/2024	Last EDR Contact: 12/13/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 04/01/2024
	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: 03/31/2023	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/08/2023	Telephone: 925-454-2361
Date Made Active in Reports: 07/31/2023	Last EDR Contact: 02/09/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/20/2024
	Data Release Frequency: Varies

DRYCLEAN SAN JOAQ VAL DIST: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 05/24/2023	Source: San Joaquin Valley Air Pollution Control District
Date Data Arrived at EDR: 05/30/2023	Telephone: 559-230-6001
Date Made Active in Reports: 08/21/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN EAST KERN DIST: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023	Source: Eastern Kern Air Pollution Control District
Date Data Arrived at EDR: 04/26/2023	Telephone: 661-862-9684
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN IMPERIAL CO DIST: Imperial County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023	Source: Imperial County Air Pollution Control District
Date Data Arrived at EDR: 04/26/2023	Telephone: 442-265-1800
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEAN MENDO CO DIST: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 04/27/2023	Source: Mendocino County Air Quality Management District
Date Data Arrived at EDR: 04/28/2023	Telephone: 707-463-4354
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN MOJAVE DESERT DIST: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/26/2023	Source: Mojave Desert Air Quality Management District
Date Data Arrived at EDR: 04/27/2023	Telephone: 760-245-1661
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN MONTEREY BAY DIST: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 04/25/2023	Source: Monterey Bay Air Quality Management District
Date Data Arrived at EDR: 04/26/2023	Telephone: 831-647-9411
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN SHASTA CO DIST: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023	Source: Shasta County Air Quality Management District
Date Data Arrived at EDR: 04/27/2023	Telephone: 530-225-5674
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO DIST: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 04/25/2023	Source: Yolo-Solano Air Quality Management District
Date Data Arrived at EDR: 04/27/2023	Telephone: 530-757-3650
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN PLACER CO DIST: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023	Source: Placer County Air Quality Management District
Date Data Arrived at EDR: 05/17/2023	Telephone: 530-745-2335
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN BAY AREA DIST: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019	Source: Bay Area Air Quality Management District
Date Data Arrived at EDR: 05/30/2019	Telephone: 415-516-1916
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1432	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEAN CALAVERAS CO DIST: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019	Source: Calaveras County Environmental Management Agency
Date Data Arrived at EDR: 06/19/2019	Telephone: 209-754-6399
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1412	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List

Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2020	Source: California Air Resources Board
Date Data Arrived at EDR: 02/04/2021	Telephone: 916-323-0006
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/26/2024
Number of Days to Update: 816	Next Scheduled EDR Contact: 05/06/2024
	Data Release Frequency: Varies

DRYCLEAN LAKE CO DIST: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 04/29/2019	Source: Lake County Air Quality Management District
Date Data Arrived at EDR: 05/07/2019	Telephone: 707-263-7000
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1455	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN NO COAST UNIFIED DIST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016	Source: North Coast Unified Air Quality Management District
Date Data Arrived at EDR: 04/19/2019	Telephone: 707-443-3093
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1473	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN NO SIERRA DIST: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019	Source: Northern Sierra Air Quality Management District
Date Data Arrived at EDR: 05/07/2019	Telephone: 530-274-9350
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1455	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN NO SONOMA CO DIST: Northern Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 04/17/2019	Source: Santa Barbara County Air Pollution Control District
Date Data Arrived at EDR: 04/17/2019	Telephone: 707-433-5911
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1475	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN SANTA BARB CO DIST: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019	Source: Santa Barbara County Air Pollution Control District
Date Data Arrived at EDR: 04/17/2019	Telephone: 805-961-8867
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1475	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEAN TEHAMA CO DIST: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019	Source: Tehama County Air Pollution Control District
Date Data Arrived at EDR: 04/24/2019	Telephone: 530-527-3717
Date Made Active in Reports: 05/01/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 1468	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DRYCLEAN SACRAMENTO METO DIST: Sacramento Metropolitan Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 08/15/2023	Source: Sacramento Metropolitan Air Quality Management District
Date Data Arrived at EDR: 08/17/2023	Telephone: 916-874-3958
Date Made Active in Reports: 10/31/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 75	Next Scheduled EDR Contact: 09/11/2023
	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: 11/14/2023	Source: South Coast Air Quality Management District
Date Data Arrived at EDR: 11/16/2023	Telephone: 909-396-3211
Date Made Active in Reports: 02/12/2024	Last EDR Contact: 02/20/2024
Number of Days to Update: 88	Next Scheduled EDR Contact: 06/03/2024
	Data Release Frequency: Varies

DRYCLEAN VENTURA CO DIST: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 01/04/2024	Source: Ventura County Air Pollution Control District
Date Data Arrived at EDR: 01/16/2024	Telephone: 805-645-1421
Date Made Active in Reports: 02/08/2024	Last EDR Contact: 01/03/2024
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/11/2023
	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: 11/21/2023	Source: Antelope Valley Air Quality Management District
Date Data Arrived at EDR: 11/22/2023	Telephone: 661-723-8070
Date Made Active in Reports: 02/16/2024	Last EDR Contact: 02/26/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/10/2024
	Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023	Source: Amador Air Quality Management District
Date Data Arrived at EDR: 04/27/2023	Telephone: 209-257-0112
Date Made Active in Reports: 07/13/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/11/2023
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/31/2023
Date Data Arrived at EDR: 09/08/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 80

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Annually

DRYCLEAN GLENN CO DIST: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 05/02/2023
Date Data Arrived at EDR: 05/03/2023
Date Made Active in Reports: 07/25/2023
Number of Days to Update: 83

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO CO DIST: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/08/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 78

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB CO DIST: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 07/26/2023
Date Data Arrived at EDR: 07/27/2023
Date Made Active in Reports: 10/13/2023
Number of Days to Update: 78

Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE CO DIST: Butte County Air Quality Management District Drycleaner Facility Listing
Butte County Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 10/18/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 90

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RIVER DIST: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 06/09/2023
Date Made Active in Reports: 08/30/2023
Number of Days to Update: 82

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/14/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/16/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/17/2023	Telephone: 916-445-9379
Date Made Active in Reports: 01/09/2024	Last EDR Contact: 01/16/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 09/13/2023	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/14/2023	Telephone: 916-255-3628
Date Made Active in Reports: 09/21/2023	Last EDR Contact: 01/11/2024
Number of Days to Update: 7	Next Scheduled EDR Contact: 04/29/2024
	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: 11/08/2023	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 11/22/2023	Telephone: 916-341-6066
Date Made Active in Reports: 02/16/2024	Last EDR Contact: 02/20/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/20/2024
	Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/07/2024	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/07/2024	Telephone: 877-786-9427
Date Made Active in Reports: 02/07/2024	Last EDR Contact: 02/07/2024
Number of Days to Update: 0	Next Scheduled EDR Contact: 05/27/2024
	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	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: 02/07/2024	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/07/2024	Telephone: 916-323-3400
Date Made Active in Reports: 02/07/2024	Last EDR Contact: 02/07/2024
Number of Days to Update: 0	Next Scheduled EDR Contact: 05/27/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/02/2023	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/04/2023	Telephone: 916-440-7145
Date Made Active in Reports: 12/27/2023	Last EDR Contact: 01/03/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/15/2024
	Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/26/2023	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/27/2023	Telephone: 916-324-2444
Date Made Active in Reports: 01/29/2024	Last EDR Contact: 12/26/2023
Number of Days to Update: 94	Next Scheduled EDR Contact: 04/15/2024
	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: 12/31/2021	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/05/2022	Telephone: 916-255-1136
Date Made Active in Reports: 09/19/2022	Last EDR Contact: 01/03/2024
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/15/2024
	Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 11/29/2023	Source: Department of Conservation
Date Data Arrived at EDR: 11/29/2023	Telephone: 916-322-1080
Date Made Active in Reports: 02/23/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/17/2024
	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: 11/08/2023	Source: Department of Public Health
Date Data Arrived at EDR: 11/22/2023	Telephone: 916-558-1784
Date Made Active in Reports: 02/16/2024	Last EDR Contact: 02/27/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/10/2024
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/06/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/07/2023	Telephone: 916-445-9379
Date Made Active in Reports: 02/05/2024	Last EDR Contact: 02/06/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/20/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/22/2023	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 11/22/2023	Telephone: 916-445-4038
Date Made Active in Reports: 02/16/2024	Last EDR Contact: 02/27/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/10/2024
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 11/29/2023	Source: Department of Conservation
Date Data Arrived at EDR: 11/29/2023	Telephone: 916-323-3836
Date Made Active in Reports: 02/23/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/17/2024
	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: 12/06/2023	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/06/2023	Telephone: 916-445-3846
Date Made Active in Reports: 02/29/2024	Last EDR Contact: 03/08/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/24/2024
	Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 11/05/2020	Telephone: 408-535-7694
Date Made Active in Reports: 01/26/2021	Last EDR Contact: 01/29/2024
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/13/2024
	Data Release Frequency: Annually

SANTA CRUZ CO SITE MITI: Site Mitigation Listing

Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities. The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018	Source: Santa Cruz Environmental Health Services
Date Data Arrived at EDR: 06/23/2023	Telephone: 831-454-2761
Date Made Active in Reports: 07/13/2023	Last EDR Contact: 02/09/2024
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/27/2024
	Data Release Frequency: Varies

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/29/2023	Source: Department of Conservation
Date Data Arrived at EDR: 11/29/2023	Telephone: 916-445-2408
Date Made Active in Reports: 02/27/2024	Last EDR Contact: 03/05/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 06/17/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
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: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
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: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
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: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/29/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
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: 11/22/2023
Date Data Arrived at EDR: 11/22/2023
Date Made Active in Reports: 02/16/2024
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
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: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
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: 12/04/2023
Date Data Arrived at EDR: 12/05/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 02/09/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories. UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 02/09/2024
Next Scheduled EDR Contact: 05/20/2024
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: 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	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 09/27/2023
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/26/2023
Next Scheduled EDR Contact: 05/13/2024
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: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 12/18/2023
Date Data Arrived at EDR: 12/18/2023
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 86

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

COLUSA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
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: 10/20/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 84

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 10/25/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
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: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

GLENN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 85

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
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: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 02/12/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/12/2024
Next Scheduled EDR Contact: 05/13/2024
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: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 10/27/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 20

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/09/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
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: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 10/06/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2023
Date Data Arrived at EDR: 10/09/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 79

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/10/2024
Next Scheduled EDR Contact: 04/22/2024
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: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
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: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
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: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/22/2024
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: 12/01/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 1

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/01/2023	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 12/13/2023	Telephone: 213-978-3800
Date Made Active in Reports: 03/07/2024	Last EDR Contact: 12/13/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 04/01/2024
	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: 07/11/2023	Source: Community Health Services
Date Data Arrived at EDR: 10/17/2023	Telephone: 323-890-7806
Date Made Active in Reports: 01/09/2024	Last EDR Contact: 01/19/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/29/2024
	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	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 01/04/2024
Number of Days to Update: 21	Next Scheduled EDR Contact: 04/22/2024
	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	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 01/11/2024
Number of Days to Update: 65	Next Scheduled EDR Contact: 04/29/2024
	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: 04/12/2023	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 05/02/2023	Telephone: 310-618-2973
Date Made Active in Reports: 06/13/2023	Last EDR Contact: 01/11/2024
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/29/2024
	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: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 02/09/2024
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/27/2024
	Data Release Frequency: Varies

MARIN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/20/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/15/2023
Date Data Arrived at EDR: 11/20/2023
Date Made Active in Reports: 02/15/2024
Number of Days to Update: 87

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/12/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
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: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 10/31/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/13/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/13/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/13/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/09/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 12

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/26/2024
Next Scheduled EDR Contact: 06/10/2024
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: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
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: 09/29/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 09/29/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
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: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
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: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SAN BENITO: CUPA Facility List Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 01/26/2024
Number of Days to Update: 8

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 05/13/2024
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: 11/08/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 90

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/12/2024
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: 11/27/2023
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/16/2024
Number of Days to Update: 81

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/27/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/04/2023
Date Data Arrived at EDR: 04/05/2023
Date Made Active in Reports: 06/27/2023
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
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: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 06/15/2010	Telephone: 619-338-2371
Date Made Active in Reports: 07/09/2010	Last EDR Contact: 02/23/2024
Number of Days to Update: 24	Next Scheduled EDR Contact: 06/10/2024
	Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 10/30/2023	Source: San Francisco County Department of Environmental Health
Date Data Arrived at EDR: 11/01/2023	Telephone: 415-252-3896
Date Made Active in Reports: 01/23/2024	Last EDR Contact: 01/29/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/13/2024
	Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 01/29/2024
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/13/2024
	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: 10/30/2023	Source: Department of Public Health
Date Data Arrived at EDR: 11/01/2023	Telephone: 415-252-3920
Date Made Active in Reports: 01/23/2024	Last EDR Contact: 01/29/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/13/2024
	Data Release Frequency: Quarterly

SAN FRANCISCO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing

a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/15/2023	Source: San Francisco Planning
Date Data Arrived at EDR: 10/17/2023	Telephone: 628-652-7483
Date Made Active in Reports: 01/11/2024	Last EDR Contact: 01/18/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/29/2024
	Data Release Frequency: Varies

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	Source: Environmental Health Department
Date Data Arrived at EDR: 06/26/2018	Telephone: N/A
Date Made Active in Reports: 07/11/2018	Last EDR Contact: 03/08/2024
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/24/2024
	Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 11/08/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 90

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/12/2024
Next Scheduled EDR Contact: 05/27/2024
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: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/07/2024
Next Scheduled EDR Contact: 06/17/2024
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: 03/01/2024
Next Scheduled EDR Contact: 06/17/2024
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: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 11/07/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/16/2023
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/12/2024
Next Scheduled EDR Contact: 05/27/2024
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/16/2024
Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

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: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
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: 02/09/2024
Next Scheduled EDR Contact: 05/27/2024
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: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/23/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
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: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 19

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/26/2024
Next Scheduled EDR Contact: 06/10/2024
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 12/05/2023
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 27

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

TULARE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
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: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
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: 09/26/2023
Date Data Arrived at EDR: 10/20/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
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: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
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: 02/02/2024
Next Scheduled EDR Contact: 05/20/2024
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: 09/26/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 02/26/2024
Number of Days to Update: 89

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/05/2024
Next Scheduled EDR Contact: 06/17/2024
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: 09/21/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
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: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 01/31/2024
Number of Days to Update: 85

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
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: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
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: 01/05/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/12/2024
Next Scheduled EDR Contact: 05/27/2024
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: 03/01/2024
Next Scheduled EDR Contact: 06/17/2024
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

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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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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, 2010 and 2015 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

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LAGUNA CREEK TRAIL
LAGUNA CREEK
ELK GROVE, CA 95758

TARGET PROPERTY COORDINATES

Latitude (North): 38.43122 - 38° 25' 52.39"
Longitude (West): 121.39898 - 121° 23' 56.33"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 639745.9
UTM Y (Meters): 4254668.5
Elevation: 28 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 50005930 FLORIN, CA
Version Date: 2021

East Map: 50006786 ELK GROVE, CA
Version Date: 2022

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).

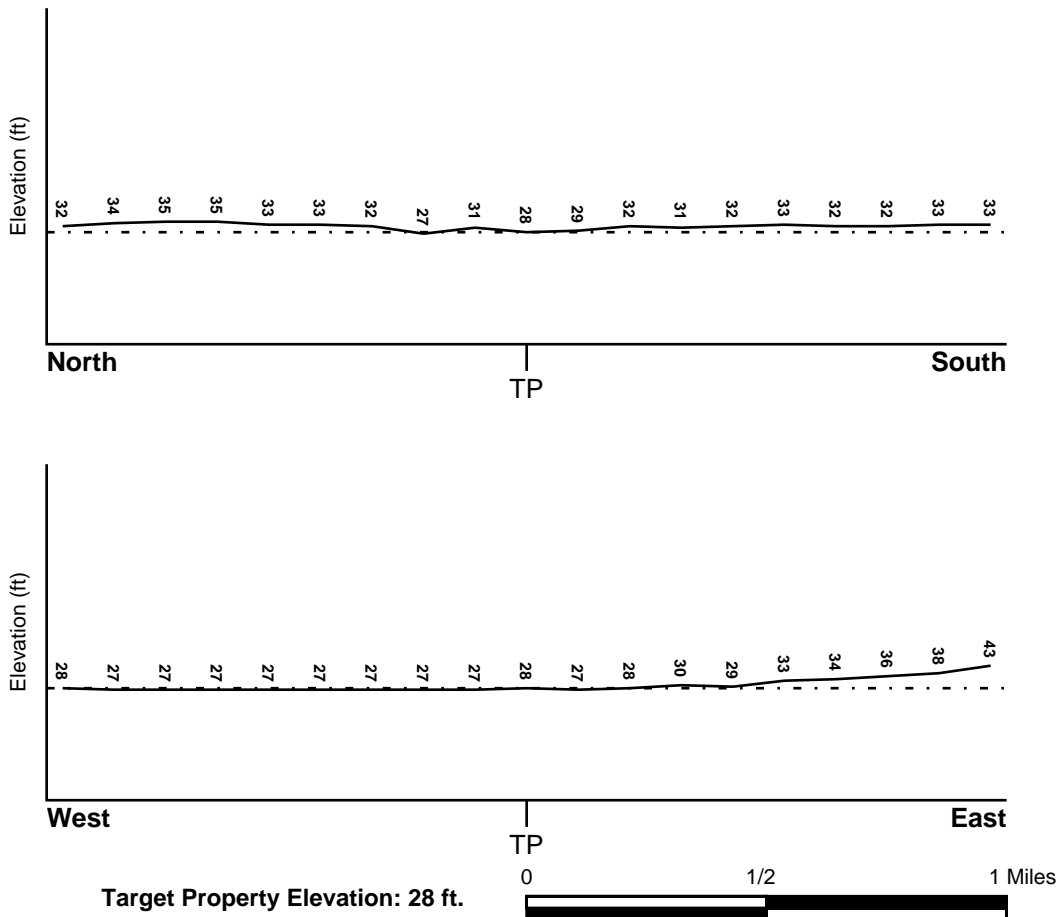
TOPOGRAPHIC INFORMATION

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 North

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

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06067C0317H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06067C0308H	FEMA FIRM Flood data
06067C0309H	FEMA FIRM Flood data
06067C0316H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
FLORIN	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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

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

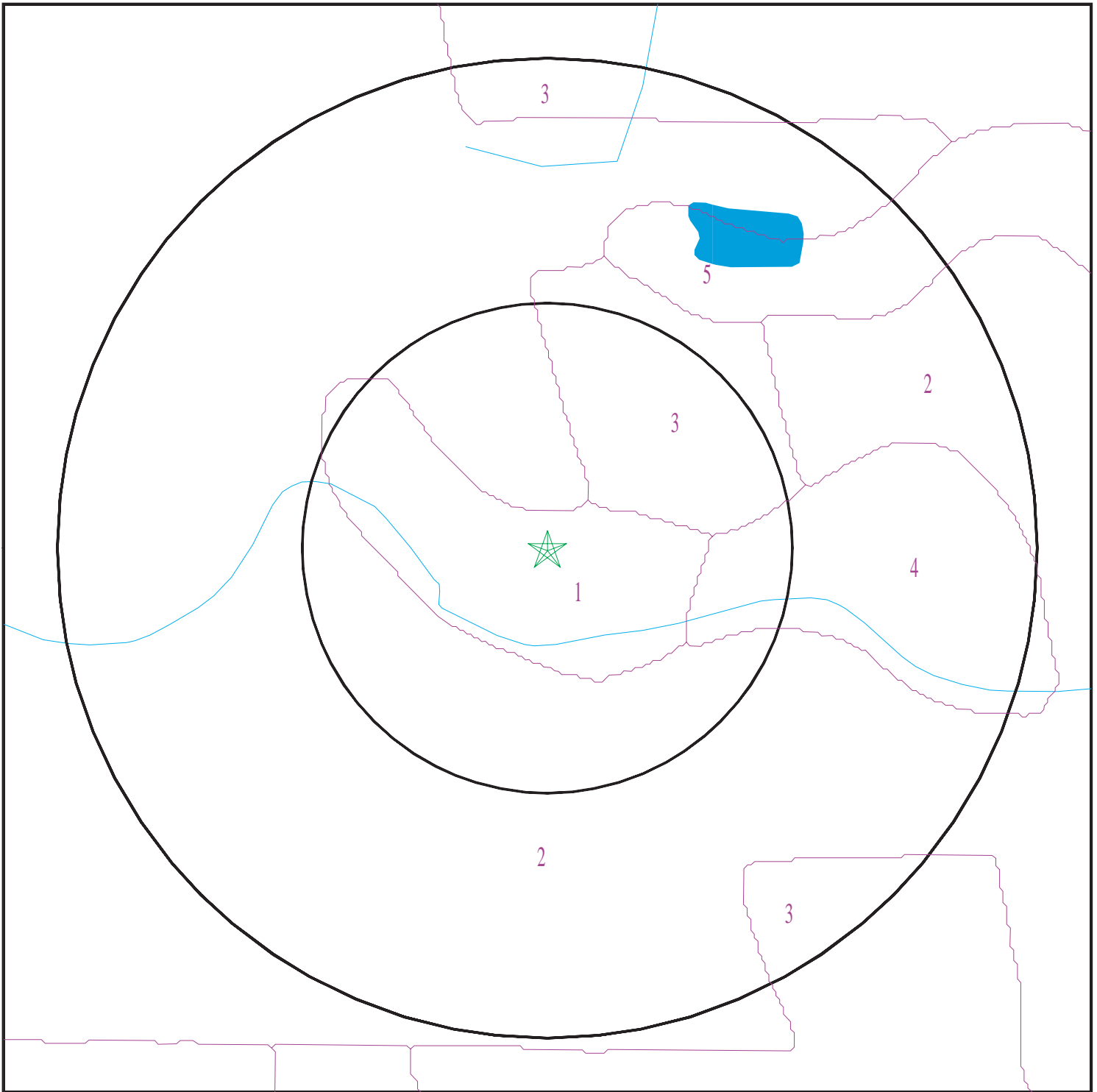
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

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 - 7597395.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove CA 95758
LAT/LONG: 38.43122 / 121.39898

CLIENT: Geocon Consultants, Inc.
CONTACT: Cristian Virrueta
INQUIRY #: 7597395.2s
DATE: March 16, 2024 1:48 am

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: BRUELLA

Soil Surface Texture: sandy 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							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	sandy 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: 7.3 Min: 6.1
2	18 inches	42 inches	sandy 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: 7.3 Min: 6.1
3	42 inches	61 inches	sandy 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: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
4	53 inches	59 inches	stratified sandy loam to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
4	53 inches	59 inches	stratified sandy loam to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: MADERA

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	14 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	29 inches	59 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: DIERSSEN

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	14 inches	31 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	31 inches	59 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
6	USGS40000188318	1/4 - 1/2 Mile North
8	USGS40000188266	1/4 - 1/2 Mile SSW
B13	USGS40000188342	1/2 - 1 Mile North
18	USGS40000188261	1/2 - 1 Mile SE
D20	USGS40000188327	1/2 - 1 Mile NW
24	USGS40000188328	1/2 - 1 Mile ENE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

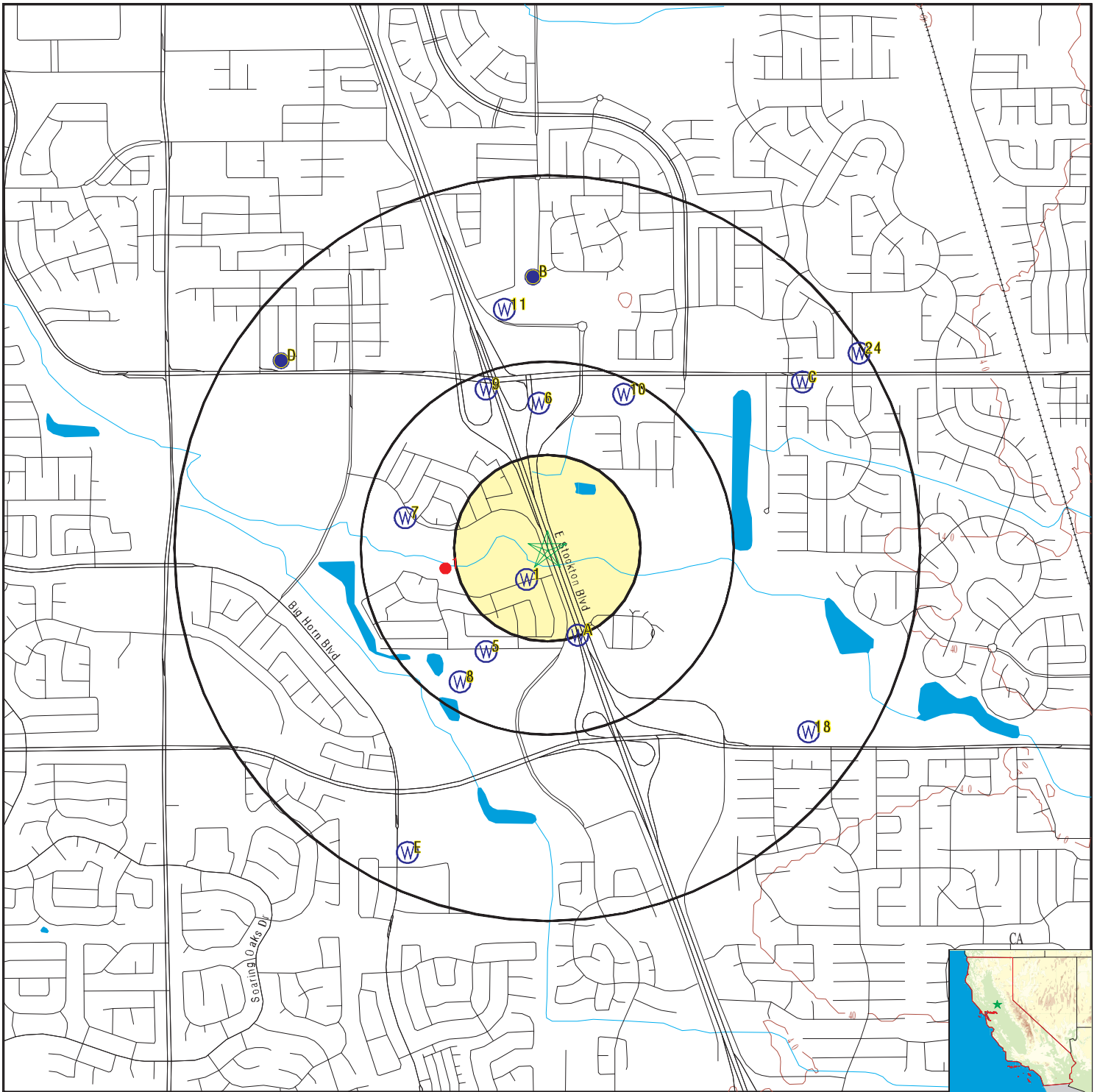
MAP ID	WELL ID	LOCATION FROM TP
1	CADDW2000008479	0 - 1/8 Mile SSW
A2	CAPFAS000000236	1/8 - 1/4 Mile SSE
A3	CADDW2000016770	1/8 - 1/4 Mile SSE
A4	CADWR9000039215	1/4 - 1/2 Mile SSE
5	CADWR9000039214	1/4 - 1/2 Mile SSW
7	CADWR0000027881	1/4 - 1/2 Mile WNW
9	CADWR9000039240	1/4 - 1/2 Mile NNW
10	CADPR0000003737	1/4 - 1/2 Mile NNE
11	CADDW2000023514	1/2 - 1 Mile North
B12	CADPR0000001245	1/2 - 1 Mile North
C14	18579	1/2 - 1 Mile ENE
C15	CADWR9000039243	1/2 - 1 Mile NE
C16	CAPFAS000001553	1/2 - 1 Mile ENE
C17	CADDW2000010632	1/2 - 1 Mile ENE
D19	CAUSGSN00016190	1/2 - 1 Mile NW
E21	CAPFAS000001559	1/2 - 1 Mile SSW
E22	CADDW2000015982	1/2 - 1 Mile SSW
E23	7351	1/2 - 1 Mile SSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

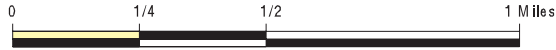
MAP ID	WELL ID	LOCATION FROM TP
1	CAOG17000008463	1/4 - 1/2 Mile WSW

PHYSICAL SETTING SOURCE MAP - 7597395.2s



- 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

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Laguna Creek Trail
 ADDRESS: Laguna Creek
 Elk Grove CA 95758
 LAT/LONG: 38.43122 / 121.39898

CLIENT: Geocon Consultants, Inc.
 CONTACT: Cristian Virrueta
 INQUIRY #: 7597395.2s
 DATE: March 16, 2024 1:48 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SSW
0 - 1/8 Mile
Higher **CA WELLS** **CADDW2000008479**

GAMA:

Well ID:	CA3400413_001_001	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3400413-001
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3400413_001_001&store_num=		
GeoTracker Data:	Not Reported		

A2
SSE
1/8 - 1/4 Mile
Higher **CA WELLS** **CAPFAS000000236**

Well ID:	3410029-029	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 74 - STOCKTON (PARK MEADOWS)		
GAMA PFAS Testing:	Yes		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410029-029&store_num=		
GeoTracker Data:	Not Reported		

A3
SSE
1/8 - 1/4 Mile
Higher **CA WELLS** **CADDW2000016770**

GAMA:

Well ID:	CA3410029_029_029	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3410029-029
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3410029_029_029&store_num=		
GeoTracker Data:	Not Reported		

A4
SSE
1/4 - 1/2 Mile
Higher **CA WELLS** **CADWR9000039215**

State Well #:	Not Reported	Station ID:	55002
Well Name:	W-074	Basin Name:	South American
Well Use:	Other	Well Type:	Single Well
Well Depth:	225	Well Completion Rpt #:	771132

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

5
SSW
1/4 - 1/2 Mile
Higher

CA WELLS CADWR9000039214

State Well #:	07N05E26P002M	Station ID:	27204
Well Name:	SCGA #2	Basin Name:	South American
Well Use:	Residential	Well Type:	Single Well
Well Depth:	0	Well Completion Rpt #:	Not Reported

6
North
1/4 - 1/2 Mile
Higher

FED USGS USGS40000188318

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N005E26C003M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19780220	Well Depth:	155
Well Depth Units:	ft	Well Hole Depth:	210
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1982-08-03
Feet below surface:	102.73	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1978-02-20	Feet below surface:	98.00
Feet to sea level:	Not Reported	Note:	Not Reported

7
WNW
1/4 - 1/2 Mile
Higher

CA WELLS CADWR0000027881

Well ID:	07N05E22R001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	07N05E22R001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=07N05E22R001M&store_num=		
GeoTracker Data:	Not Reported		

8
SSW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000188266

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N005E26P003M	Type:	Well

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19770101	Well Depth:	185
Well Depth Units:	ft	Well Hole Depth:	196
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1982-08-04
Feet below surface:	105.94	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1977-01-01	Feet below surface:	110.00
Feet to sea level:	Not Reported	Note:	Not Reported

**9
NNW
1/4 - 1/2 Mile
Higher**

CA WELLS CADWR9000039240

State Well #:	07N05E26C001M	Station ID:	6719
Well Name:	Not Reported	Basin Name:	South American
Well Use:	Irrigation	Well Type:	Unknown
Well Depth:	519	Well Completion Rpt #:	61393

**10
NNE
1/4 - 1/2 Mile
Higher**

CA WELLS CADPR0000003737

Well ID:	84509	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84509	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84509&store_num=		
GeoTracker Data:	Not Reported		

**11
North
1/2 - 1 Mile
Higher**

CA WELLS CADDW2000023514

GAMA:

Well ID:	CA3400397_001_001	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3400397-001
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3400397_001_001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B12
North
1/2 - 1 Mile
Higher

CA WELLS CADPR0000001245

Well ID:	84508	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84508	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84508&store_num=		
GeoTracker Data:	Not Reported		

B13
North
1/2 - 1 Mile
Higher

FED USGS USGS40000188342

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N005E23L001M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	155
Well Depth Units:	ft	Well Hole Depth:	210
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1982-08-02
Feet below surface:	102.70	Feet to sea level:	Not Reported
Note:	Not Reported		

C14
ENE
1/2 - 1 Mile
Higher

CA WELLS 18579

Seq:	18579	Prim sta c:	3410029-019
Frds no:	3410029019	County:	34
District:	09	User id:	TEN
System no:	3410029	Water type:	G
Source nam:	WELL 65 - SHELDON	Station ty:	WELL/AMBNT
Latitude:	382615.0	Longitude:	1212309.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3410029	System nam:	Scwmd Laguna/Vineyard
Hqname:	Not Reported	Address:	827 7th Street, Room 301
City:	Sacramento	State:	Ca
Zip:	95814	Zip ext:	Not Reported
Pop serv:	20259	Connection:	13272
Area serve:	LAGUNA VINEYARD		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	15-FEB-18	Finding:	9.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	15-NOV-17	Finding:	10.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	23-AUG-17	Finding:	91.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	23-AUG-17	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-AUG-17	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	23-AUG-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	23-AUG-17	Finding:	280.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	23-AUG-17	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-AUG-17	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-AUG-17	Finding:	11.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	23-AUG-17	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	09-MAY-17	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	09-MAY-17	Finding:	0.8
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	09-MAY-17	Finding:	180.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	160.
Chemical:	IRON	Report units:	UG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	100.		
Sample date:	09-MAY-17	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	09-MAY-17	Finding:	1.7
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	09-MAY-17	Finding:	9.3
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	20.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	81.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	09-MAY-17	Finding:	130.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-17	Finding:	250.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	16-MAY-16	Finding:	0.93
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-MAY-15	Finding:	4.7
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	13-MAY-15	Finding:	1.07
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	13-MAY-15	Finding:	0.156
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	20-AUG-14	Finding:	250.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	22-MAY-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	22-MAY-14	Finding:	8.9
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	240.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	22-MAY-14	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	130.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	87.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	20.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-MAY-14	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	22-MAY-14	Finding:	2.8
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	22-MAY-14	Finding:	11.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dir:	10.		
Sample date:	22-MAY-14	Finding:	1200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-MAY-14	Finding:	5.1
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	22-MAY-14	Finding:	180.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	210.
Sample date:	18-FEB-14	Report units:	US
Chemical:	SPECIFIC CONDUCTANCE		
Dir:	0.		
Sample date:	15-MAY-13	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	15-MAY-12	Finding:	4.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

**C15
NE
1/2 - 1 Mile
Higher**

CA WELLS CADWR9000039243

State Well #:	Not Reported	Station ID:	55012
Well Name:	W-065	Basin Name:	South American
Well Use:	Other	Well Type:	Single Well
Well Depth:	250	Well Completion Rpt #:	319662

**C16
ENE
1/2 - 1 Mile
Higher**

CA WELLS CAPFAS000001553

Well ID:	3410029-019	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 65 - SHELDON NORTH SERVICE WELL		
GAMA PFAS Testing:	Yes		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410029-019&store_num=		
GeoTracker Data:	Not Reported		

**C17
ENE
1/2 - 1 Mile
Higher**

CA WELLS CADDW2000010632

GAMA:

Well ID:	CA3410029_019_019	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3410029-019
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3410029_019_019&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

18
SE
1/2 - 1 Mile
Higher

FED USGS USGS40000188261

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18020109
Monitor Location:	007N005E25N001M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	145
Aquifer:	Central Valley aquifer system	Well Hole Depth:	175
Formation Type:	Not Reported		
Construction Date:	19760101		
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1976-01-01
Feet below surface:	130.00	Feet to sea level:	Not Reported
Note:	Not Reported		

D19
NW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00016190

Well ID:	USGS-382619121244001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-382619121244001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-382619121244001&store_num=		
GeoTracker Data:	Not Reported		

D20
NW
1/2 - 1 Mile
Higher

FED USGS USGS40000188327

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18020109
Monitor Location:	007N005E22R001M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	155
Aquifer:	Central Valley aquifer system	Well Hole Depth:	180
Formation Type:	Not Reported		
Construction Date:	19770101		
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1982-08-02
Feet below surface:	95.70	Feet to sea level:	Not Reported
Note:	The site had been pumped recently.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E21
SSW
1/2 - 1 Mile
Higher

CA WELLS CAPFAS000001559

Well ID:	3410029-013	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 52 - BIG HORN NORTH	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410029-013&store_num=		
GeoTracker Data:	Not Reported		

E22
SSW
1/2 - 1 Mile
Higher

CA WELLS CADDW2000015982

GAMA:

Well ID:	CA3410029_013_013	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	3410029-013
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA3410029_013_013&store_num=		
GeoTracker Data:	Not Reported		

E23
SSW
1/2 - 1 Mile
Higher

CA WELLS 7351

Seq:	7351	Prim sta c:	07N/05E-35D01 M
Frds no:	3410029013	County:	34
District:	09	User id:	TEN
System no:	3410029	Water type:	G
Source nam:	WELL 52 - BIG HORN CENTRAL	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	382510.0	Longitude:	1212420.0
Precision:	4	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3410029	System nam:	Scwmd Laguna/Vineyard
Hqname:	Not Reported	Address:	827 7th Street, Room 301
City:	Sacramento	State:	Ca
Zip:	95814	Zip ext:	Not Reported
Pop serv:	20259	Connection:	13272
Area serve:	LAGUNA VINEYARD		

Sample date:	06-NOV-17	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		

Sample date:	02-AUG-17	Finding:	2.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	02-AUG-17	Finding:	2.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	02-AUG-17	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	06-FEB-17	Finding:	3.1
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	06-FEB-17	Finding:	8.5
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	06-FEB-17	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	29.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	41.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	06-FEB-17	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	06-FEB-17	Finding:	110.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	06-FEB-17	Finding:	6.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	06-FEB-17	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-17	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.1		
Sample date:	06-FEB-17	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	01-NOV-16	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	11-AUG-16	Finding:	2.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-NOV-15	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	27-AUG-15	Finding:	0.758
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	27-AUG-15	Finding:	1.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	27-AUG-15	Finding:	0.246
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	27-AUG-15	Finding:	8.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	19-AUG-14	Finding:	9.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	19-AUG-14	Finding:	2100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-AUG-14	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	18-FEB-14	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	18-FEB-14	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	18-FEB-14	Finding:	38.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	18-FEB-14	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	18-FEB-14	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	18-FEB-14	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	18-FEB-14	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	18-FEB-14	Finding:	480.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	18-FEB-14	Finding:	9.3
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	18-FEB-14	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	18-FEB-14	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	18-FEB-14	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	18-FEB-14	Finding:	26.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-13	Finding:	9.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	16-AUG-12	Finding:	9.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

24
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000188328

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N005E24P001M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19770101	Well Depth:	155
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	2	Level reading date:	1982-08-02
Feet below surface:	108.68	Feet to sea level:	Not Reported
Note:	The site had been pumped recently.		
Level reading date:	1977-01-01	Feet below surface:	120.00
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
WSW
1/4 - 1/2 Mile

OIL_GAS CAOG17000008463

OIL_GAS:

API #:	0406700311	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	J.P. Kramer	Well Design:	J.P. Kramer 1
Operator ID:	02325	Operator Name:	E. A. Bender
Field Name:	Any Field	Area Name:	Any Area
Place:	Elk Grove	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	04/05/1953		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=06700311		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95758	21	1

Federal EPA Radon Zone for SACRAMENTO County: 3

- 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 SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

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, 2010 and 2015 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.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

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.

Geothermal Wells Listing

Department of Conservation

Telephone: 916-445-9686

Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservation's Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

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

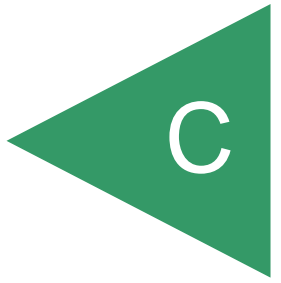
Source: Department of Commerce, National Oceanic and Atmospheric Administration

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.

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APPENDIX





Laguna Creek Trail

Laguna Creek

Elk Grove, CA 95758

Inquiry Number: 7597395.8

March 15, 2024

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

03/15/24

Site Name:

Laguna Creek Trail
Laguna Creek
Elk Grove, CA 95758
EDR Inquiry # 7597395.8

Client Name:

Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800
Rancho Cordova, CA 95742
Contact: Cristian Virrueta



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:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2020	1"=500'	Flight Year: 2020	USDA/NAIP
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'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=500'	Acquisition Date: May 23, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: June 08, 1984	USDA
1972	1"=500'	Flight Date: June 28, 1972	USDA
1966	1"=500'	Flight Date: August 05, 1966	USGS
1964	1"=500'	Flight Date: May 19, 1964	USDA
1957	1"=500'	Flight Date: September 09, 1957	USDA
1947	1"=500'	Flight Date: July 28, 1947	USGS
1937	1"=500'	Flight Date: August 17, 1937	USDA

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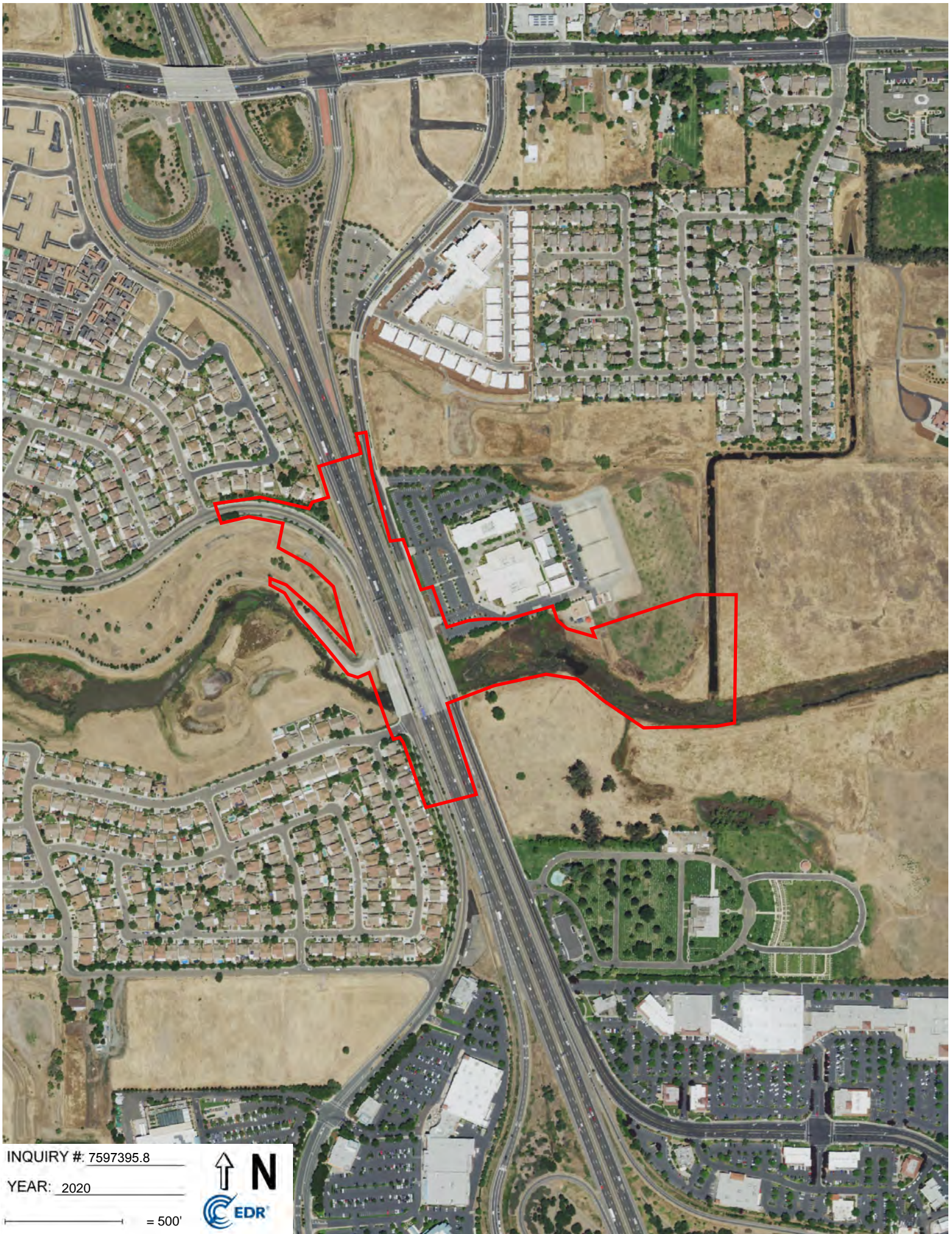
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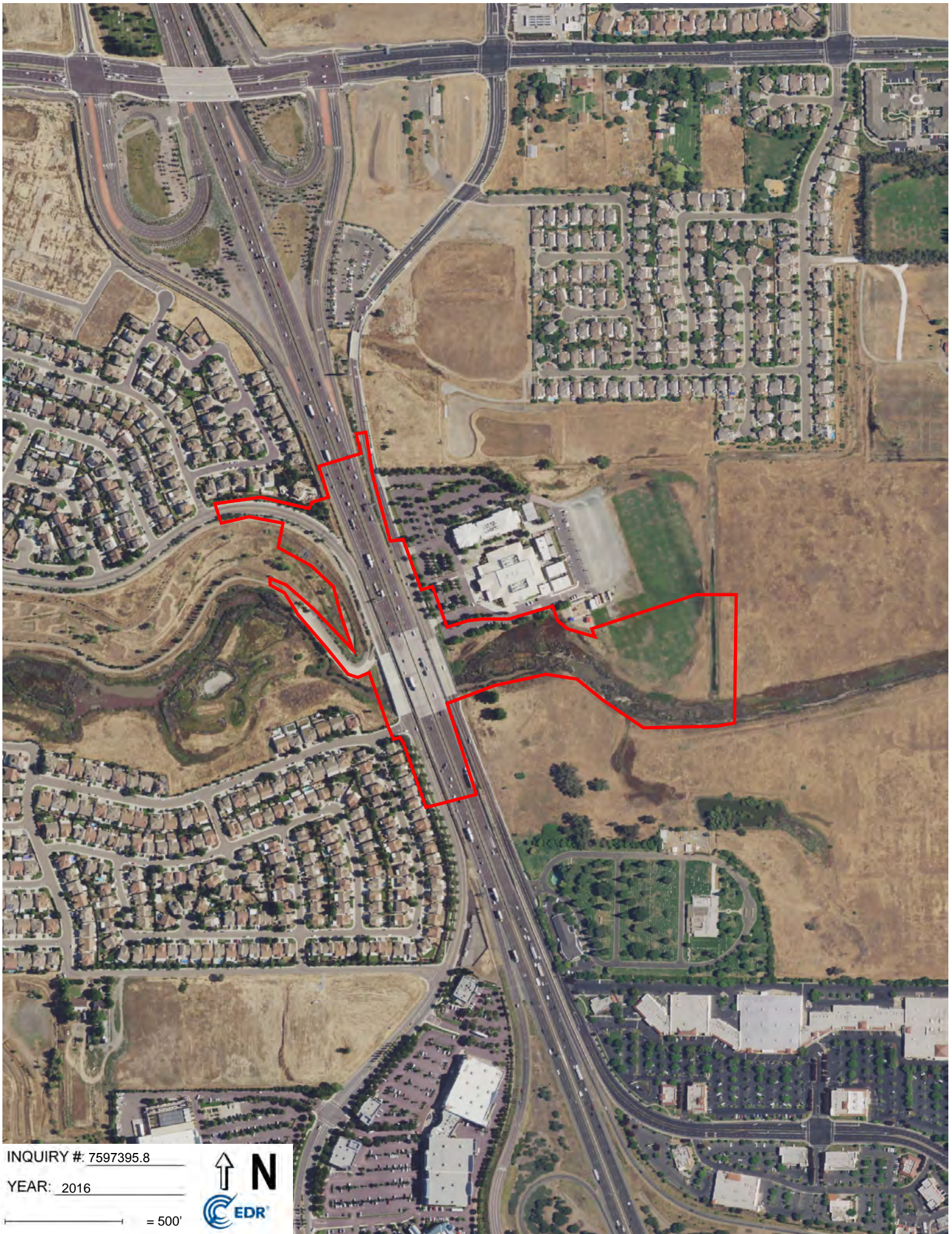


INQUIRY #: 7597395.8

YEAR: 2020

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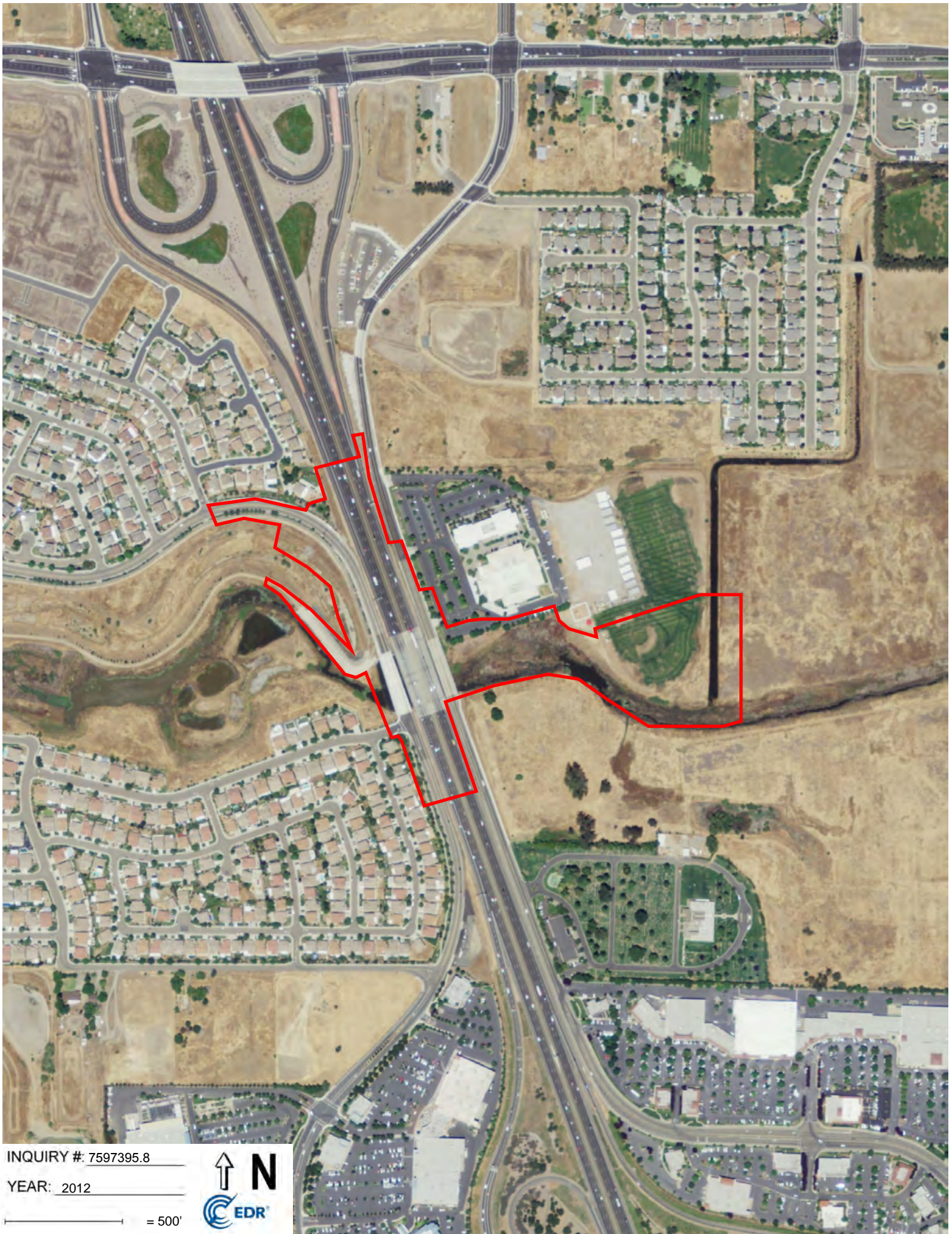


INQUIRY #: 7597395.8

YEAR: 2016

— = 500'





INQUIRY #: 7597395.8

YEAR: 2012

— = 500'



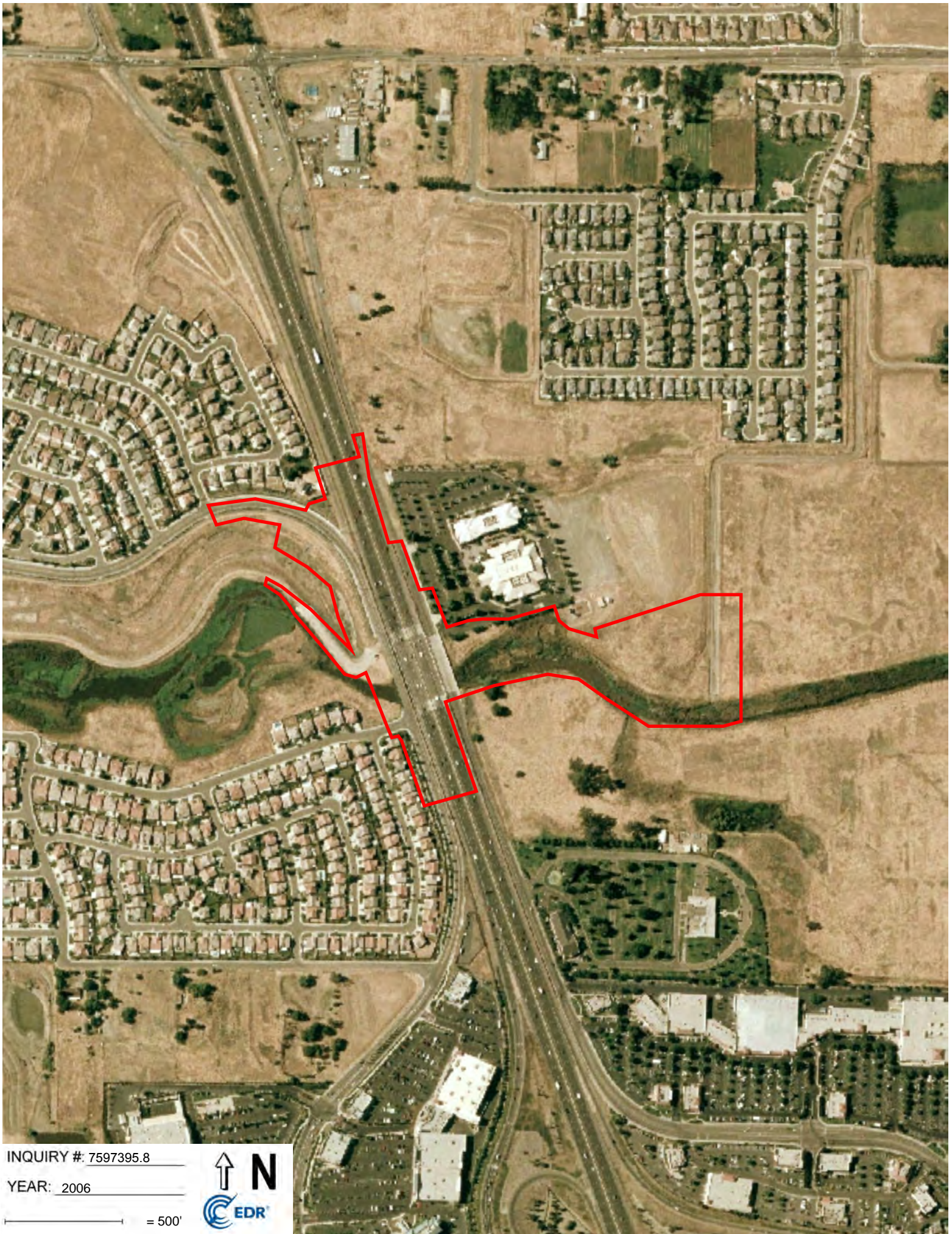


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YEAR: 2009

— = 500'



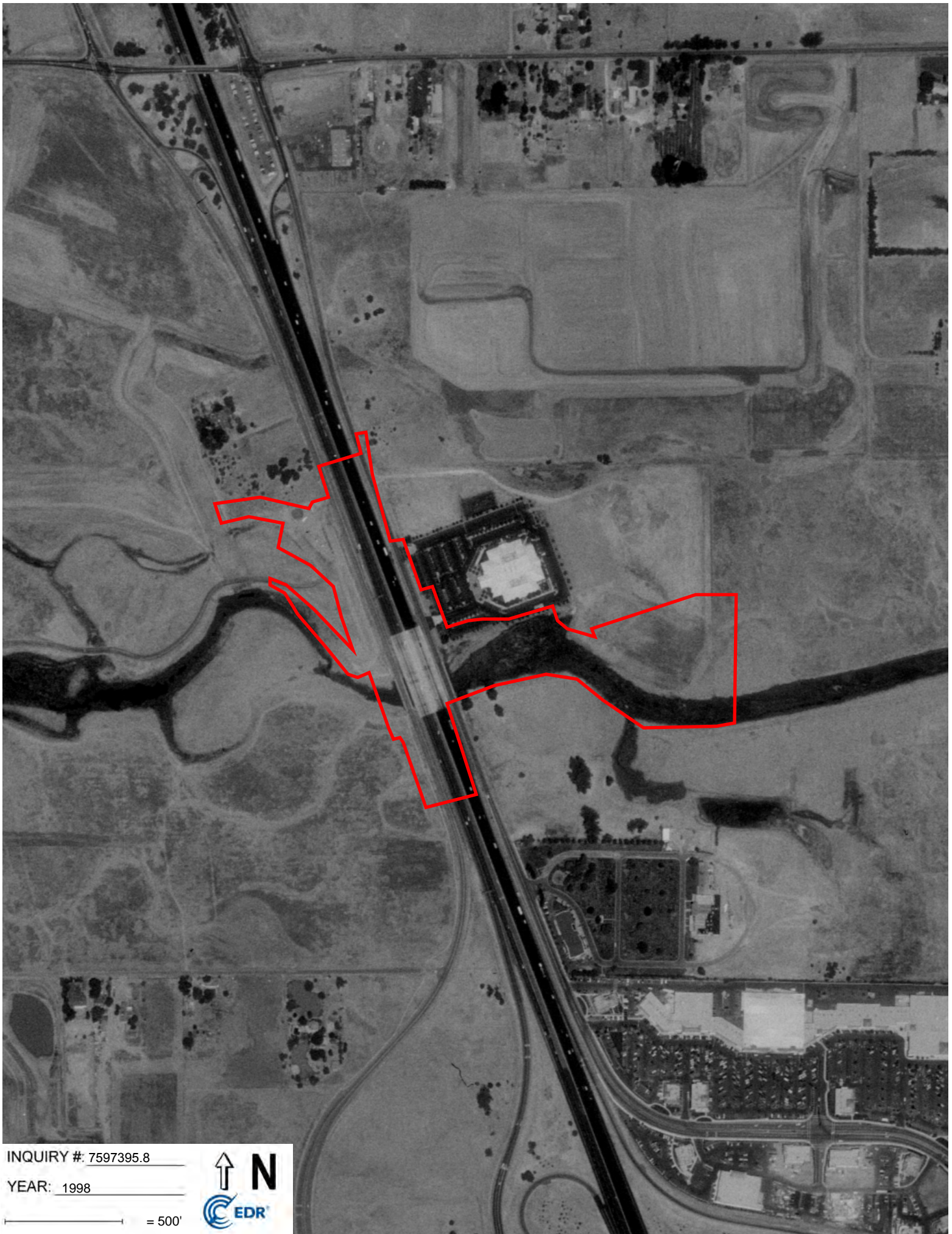


INQUIRY #: 7597395.8

YEAR: 2006

— = 500'





INQUIRY #: 7597395.8

YEAR: 1998

— = 500'





INQUIRY #: 7597395.8

YEAR: 1993

— = 500'



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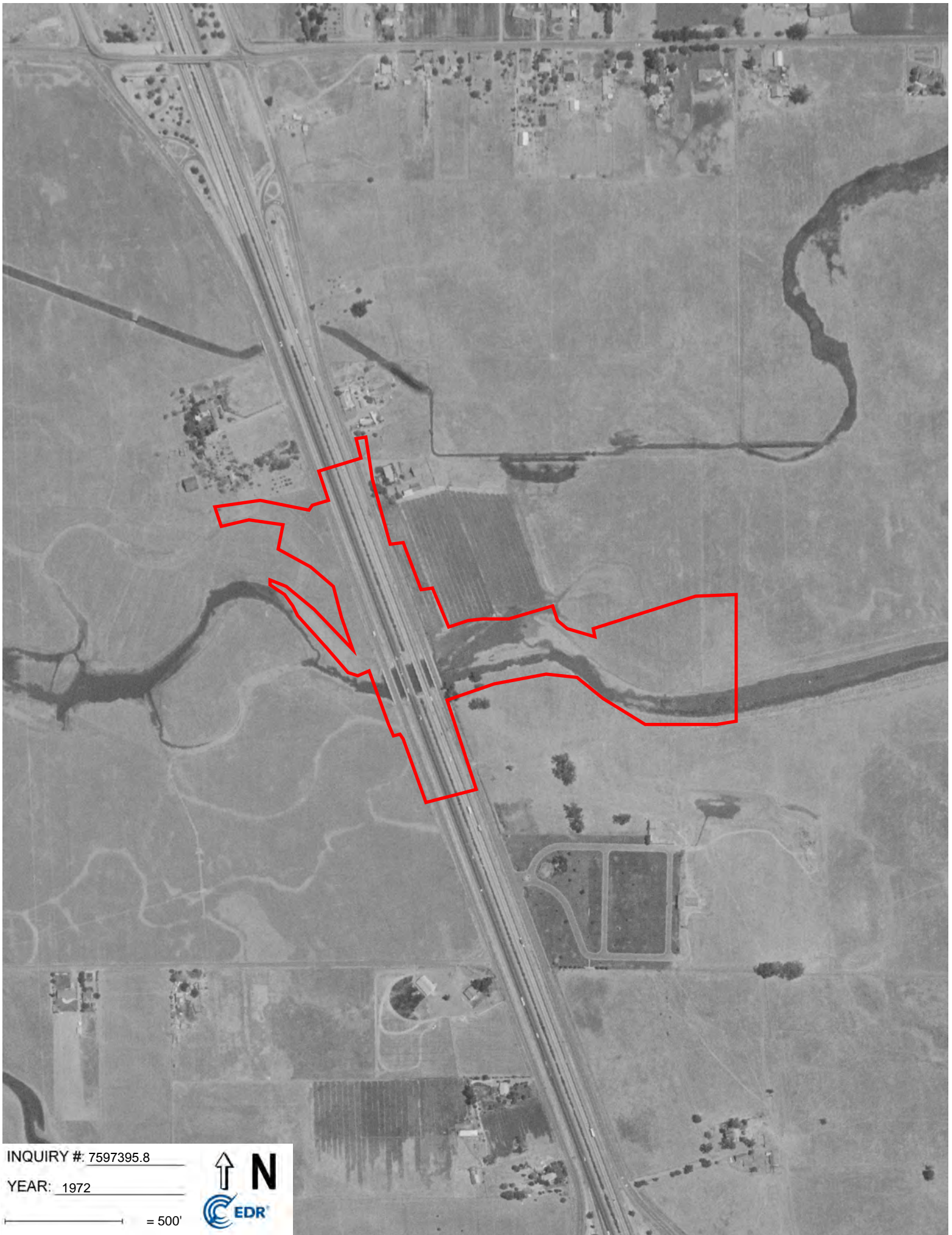


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YEAR: 1984

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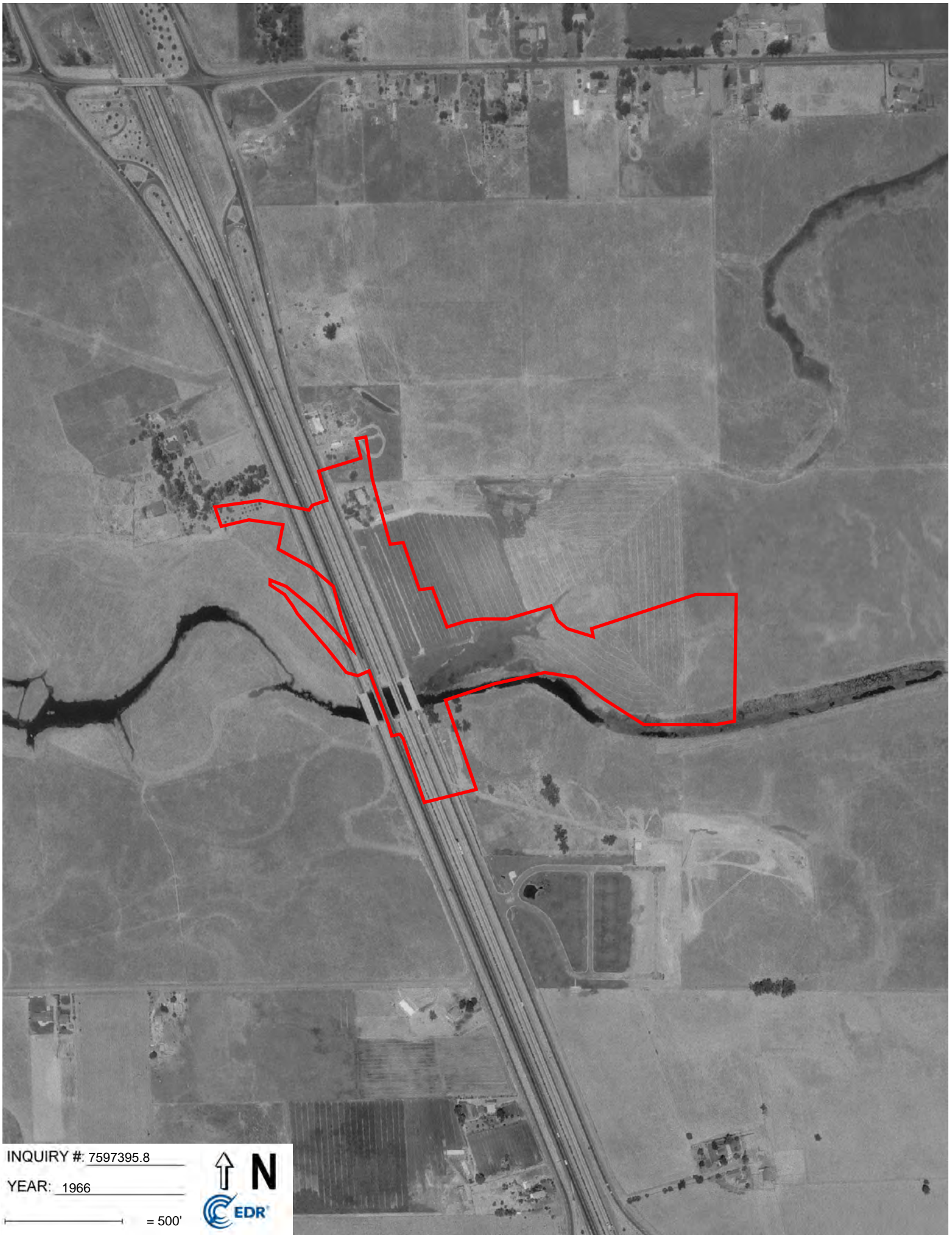


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YEAR: 1972

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INQUIRY #: 7597395.8

YEAR: 1966

— = 500'



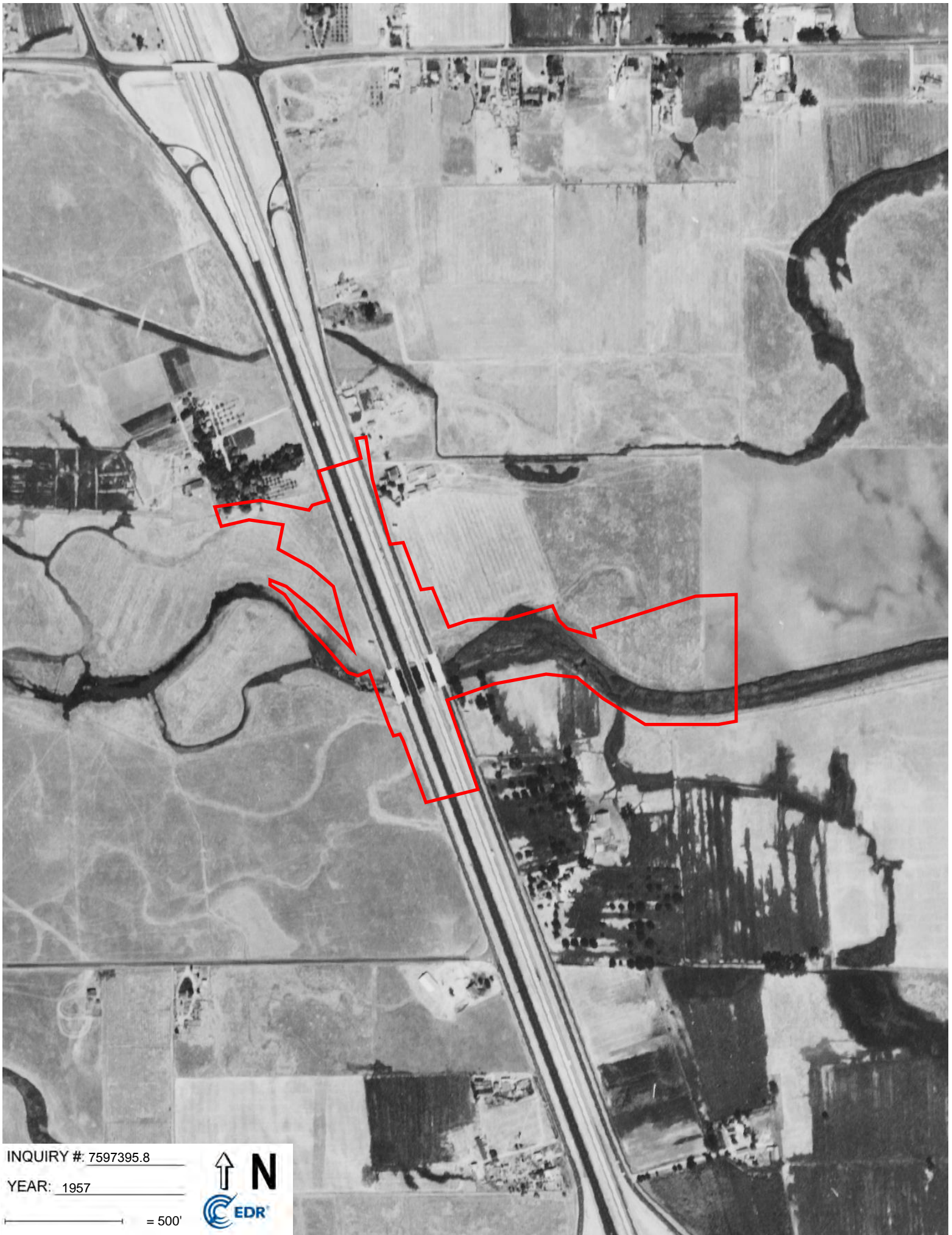


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YEAR: 1964

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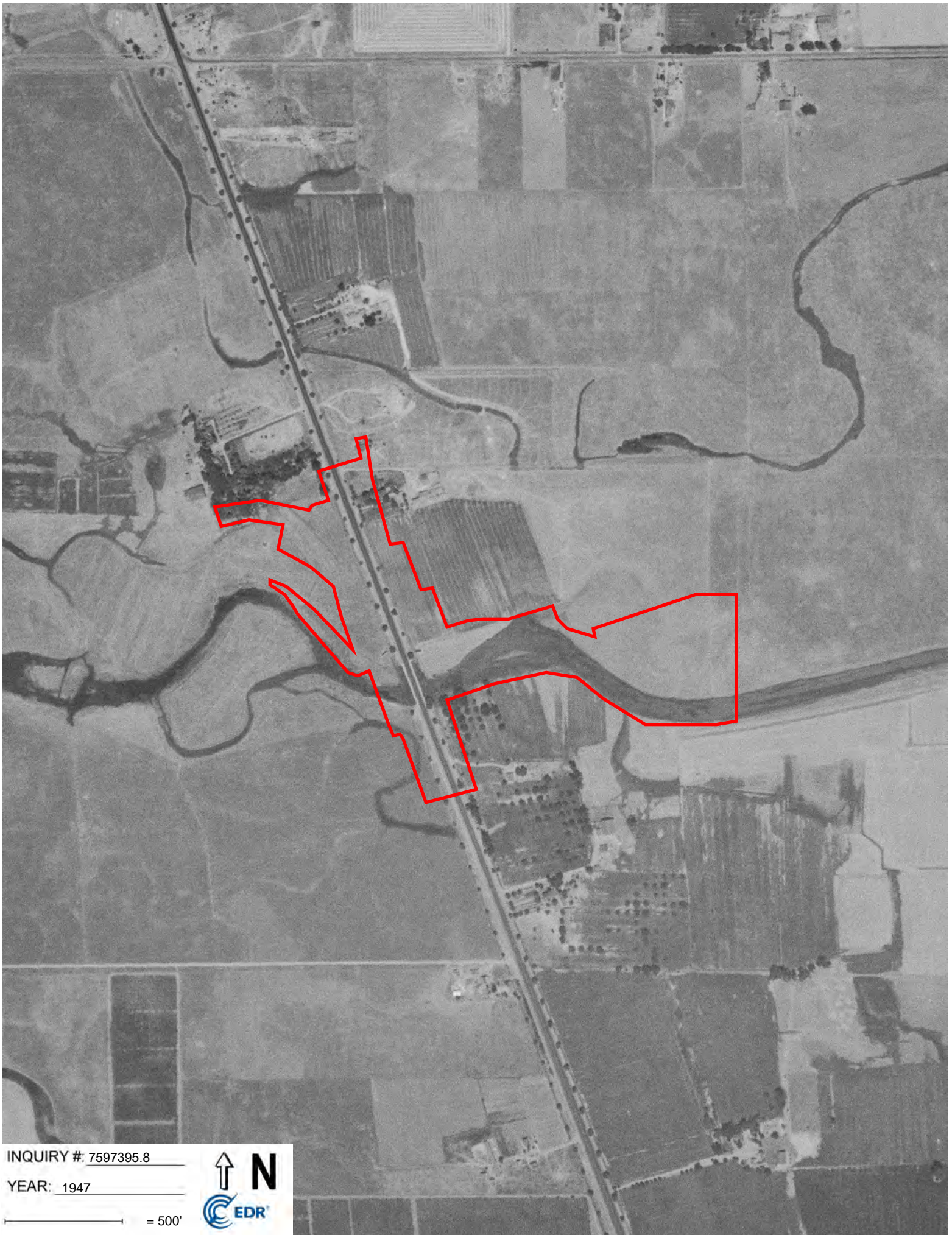


INQUIRY #: 7597395.8

YEAR: 1957

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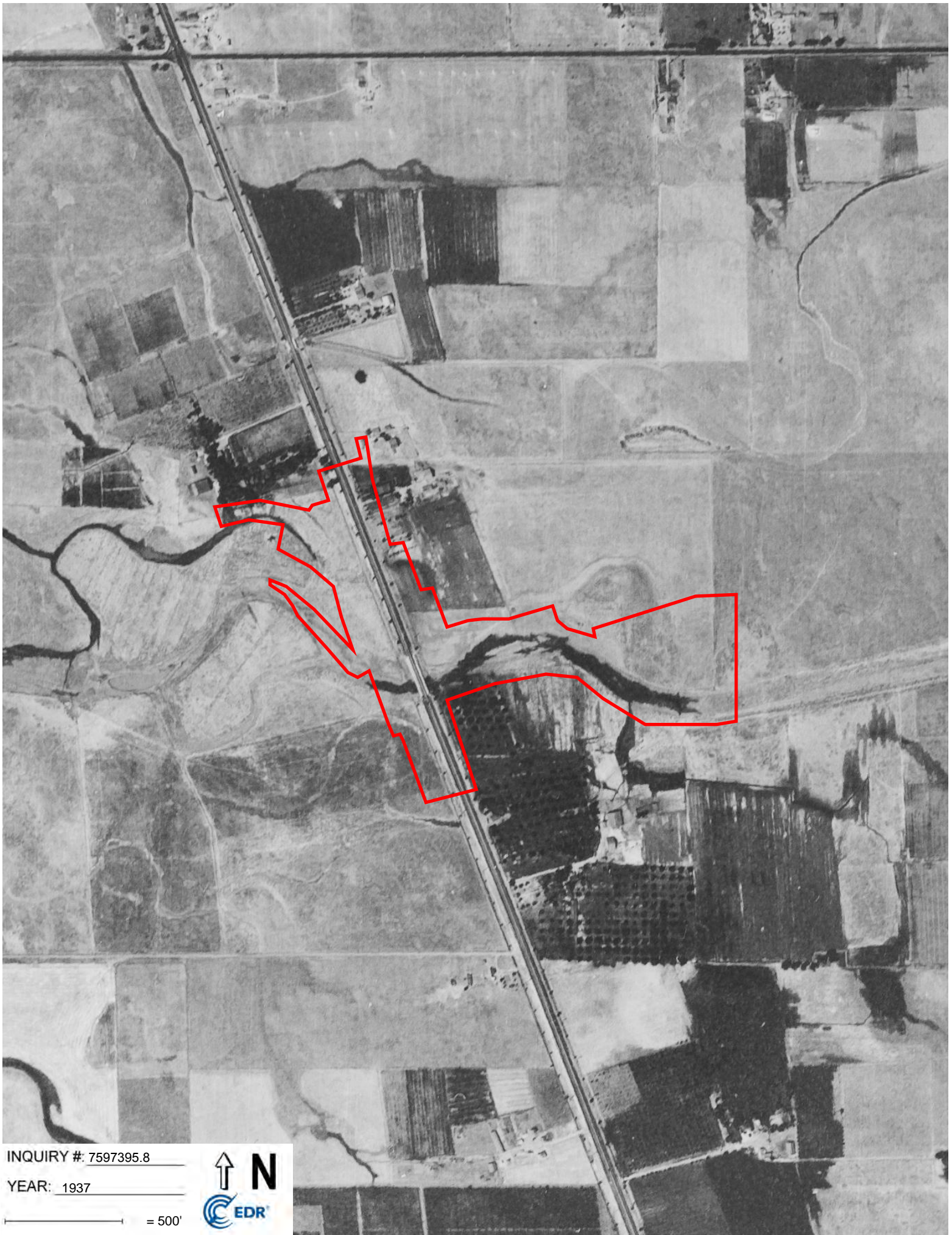


INQUIRY #: 7597395.8

YEAR: 1947

— = 500'





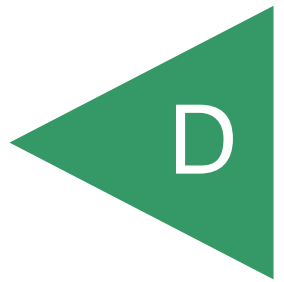
INQUIRY #: 7597395.8

YEAR: 1937

500'



APPENDIX





Laguna Creek Trail

Laguna Creek

Elk Grove, CA 95758

Inquiry Number: 7597395.4

March 15, 2024

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

03/15/24

Site Name:

Laguna Creek Trail
Laguna Creek
Elk Grove, CA 95758
EDR Inquiry # 7597395.4

Client Name:

Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800
Rancho Cordova, CA 95742
Contact: Cristian Virrueta



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Geocon Consultants, 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. EDR's 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:**Coordinates:**

P.O.#	S2722-05-01	Latitude:	38.43122 38° 25' 52" North
Project:	Laguna Creek Trail	Longitude:	-121.39898 -121° 23' 56" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	639742.37
		UTM Y Meters:	4254875.29
		Elevation:	28.00' above sea level

Maps Provided:

2022, 2021	1947
2018	1941
2015	1909
2012	1894
1979, 1980	
1975	
1968	
1952, 1953	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2022, 2021 Source Sheets



Elk Grove
2022
7.5-minute, 24000



Florin
2021
7.5-minute, 24000

2018 Source Sheets



Florin
2018
7.5-minute, 24000



Elk Grove
2018
7.5-minute, 24000

2015 Source Sheets



Florin
2015
7.5-minute, 24000



Elk Grove
2015
7.5-minute, 24000

2012 Source Sheets



Florin
2012
7.5-minute, 24000



Elk Grove
2012
7.5-minute, 24000

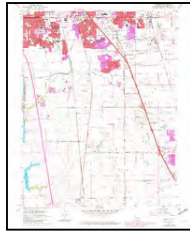
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1979, 1980 Source Sheets



Elk Grove
1979
7.5-minute, 24000
Aerial Photo Revised 1978



Florin
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1975 Source Sheets



Florin
1975
7.5-minute, 24000
Aerial Photo Revised 1975



Elk Grove
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1968 Source Sheets

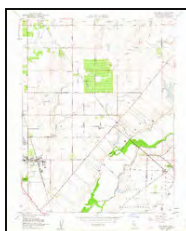


Elk Grove
1968
7.5-minute, 24000
Aerial Photo Revised 1966

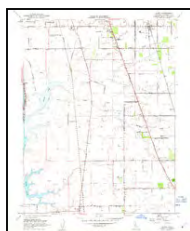


Florin
1968
7.5-minute, 24000
Aerial Photo Revised 1966

1952, 1953 Source Sheets



Elk Grove
1952
7.5-minute, 24000
Aerial Photo Revised 1949

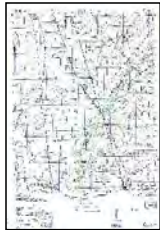


Florin
1953
7.5-minute, 24000
Aerial Photo Revised 1949

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1947 Source Sheets



GALT
1947
15-minute, 50000

1941 Source Sheets



Franklin
1941
15-minute, 62500
Aerial Photo Revised 1939

1909 Source Sheets

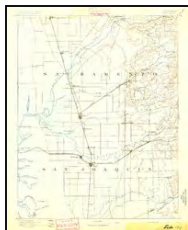


Florin
1909
7.5-minute, 31680



Elk Grove
1909
7.5-minute, 31680

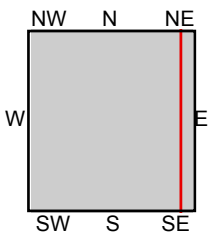
1894 Source Sheets



Lodi
1894
30-minute, 125000



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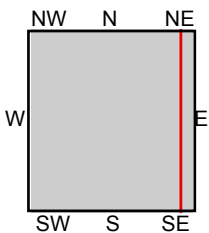
TP, Florin, 2021, 7.5-minute
E, Elk Grove, 2022, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





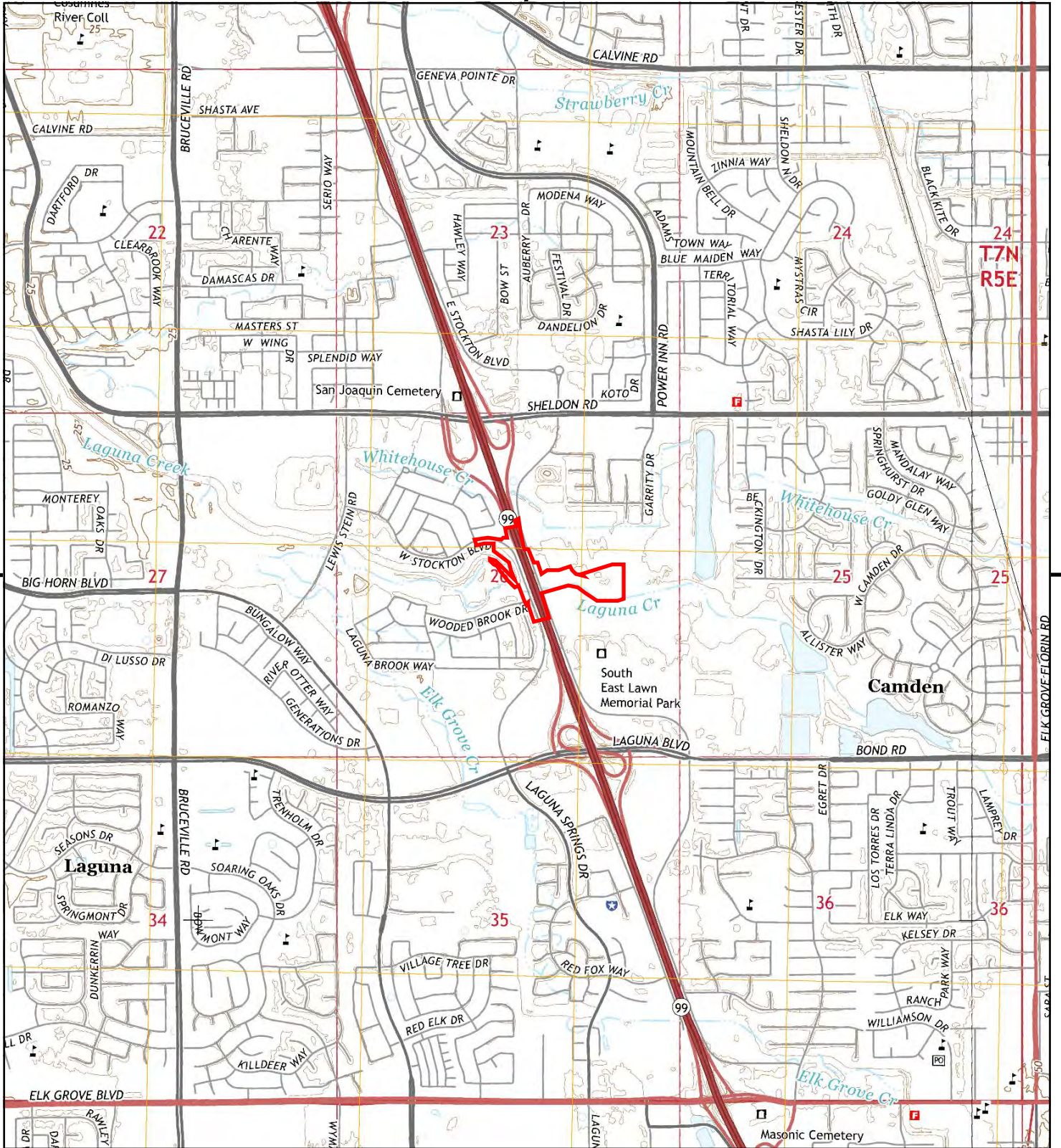
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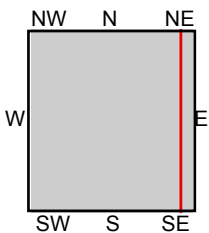
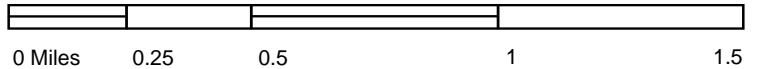
TP, Florin, 2018, 7.5-minute
E, Elk Grove, 2018, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





This report includes information from the following map sheet(s).



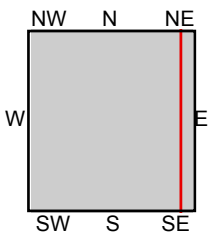
TP, Florin, 2015, 7.5-minute
E, Elk Grove, 2015, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





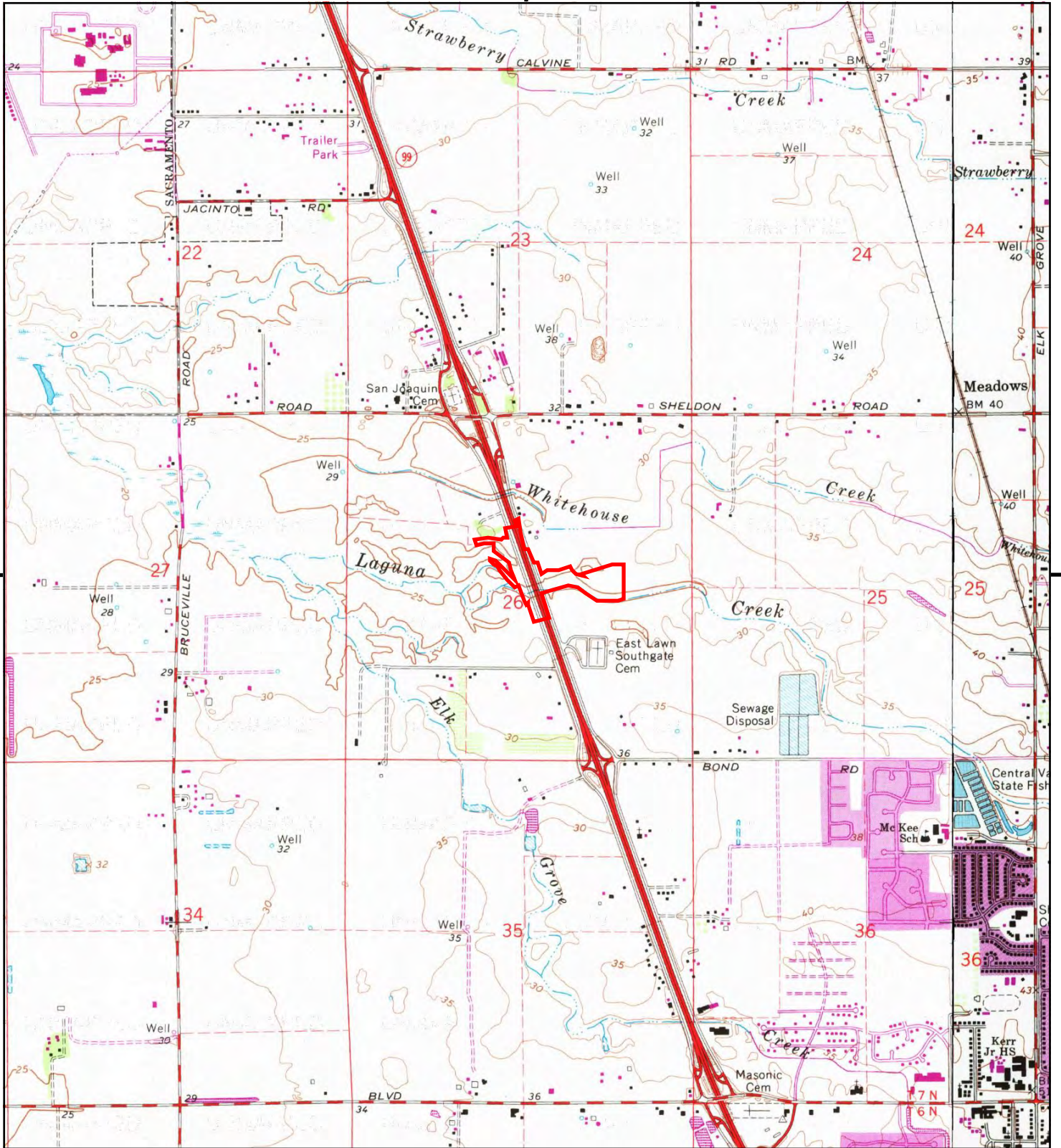
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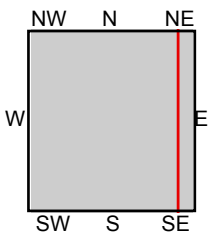
TP, Florin, 2012, 7.5-minute
E, Elk Grove, 2012, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





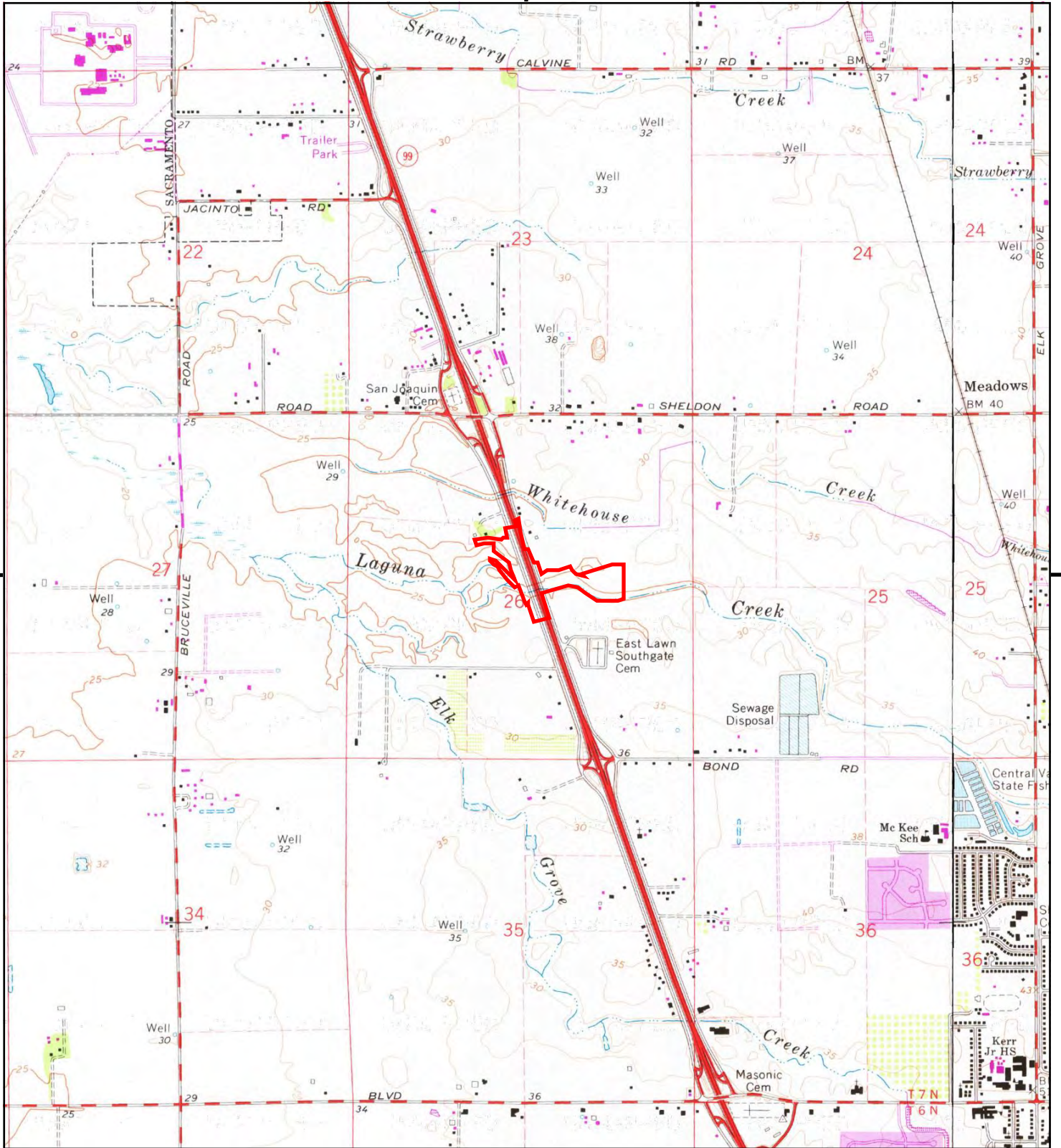
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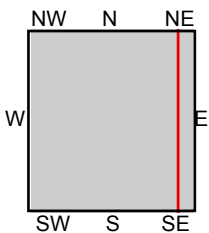
TP, Florin, 1980, 7.5-minute
E, Elk Grove, 1979, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





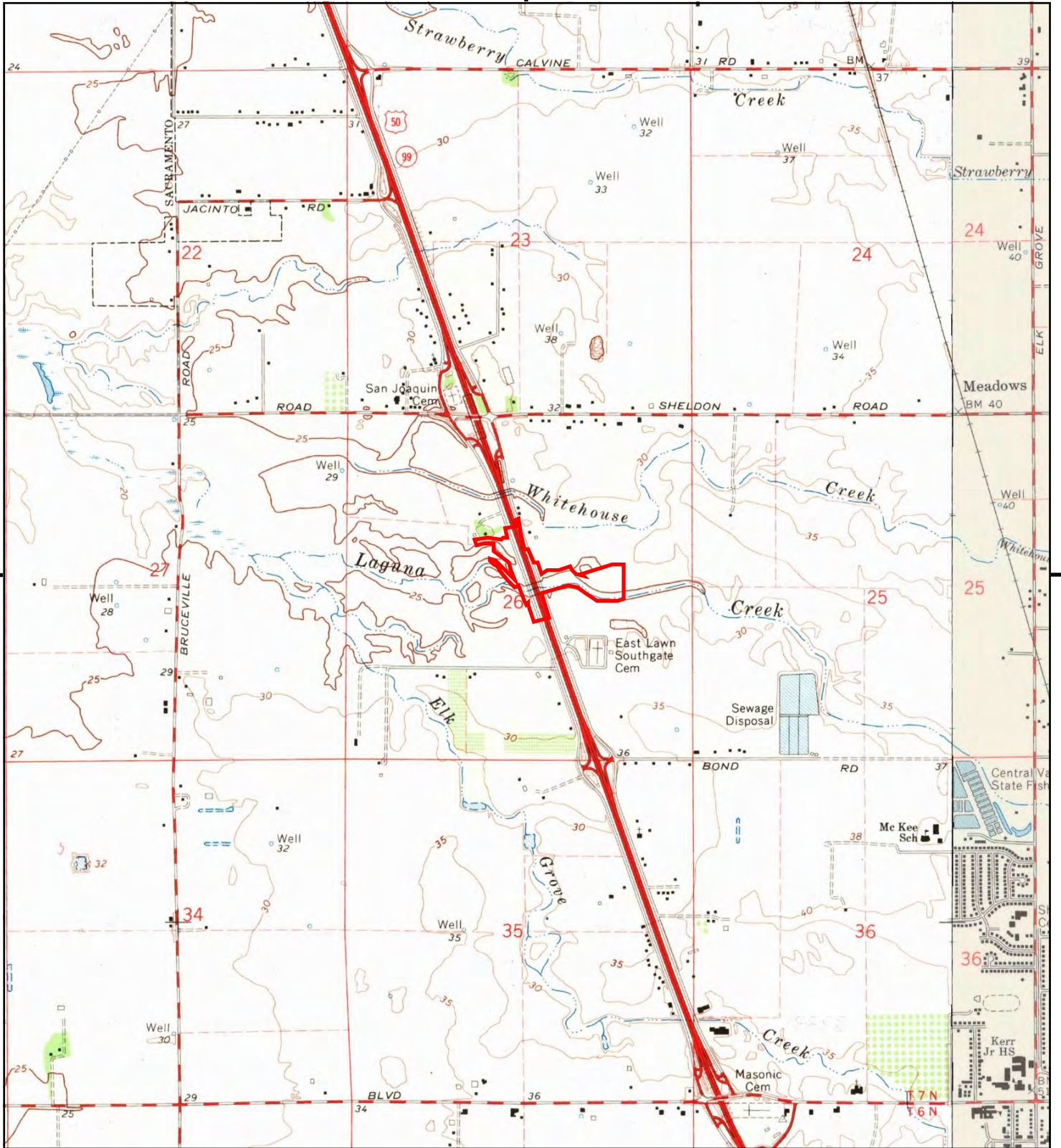
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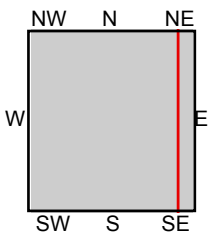
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SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





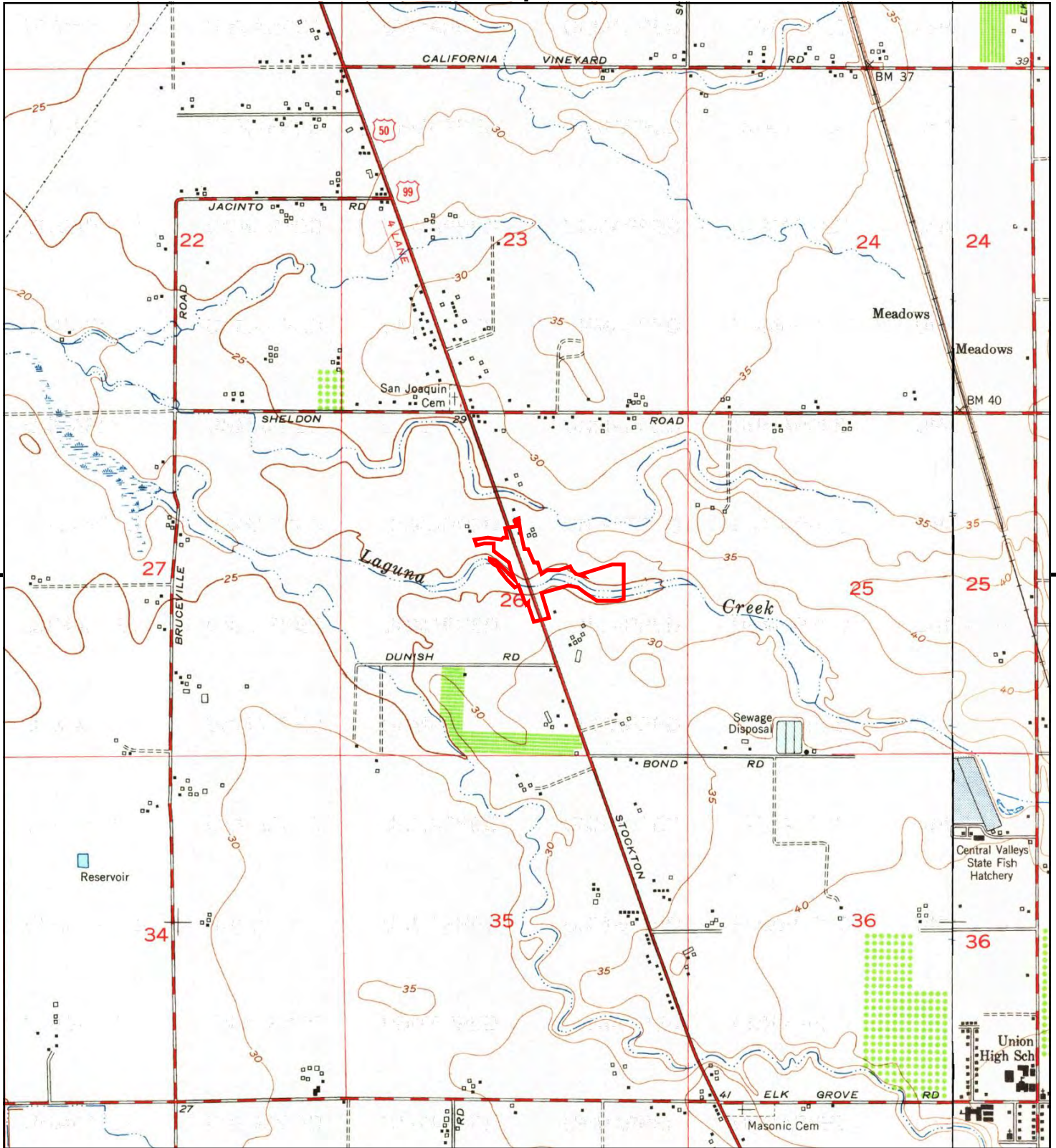
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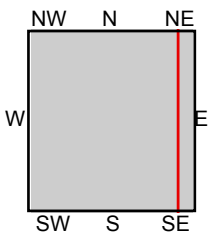
TP, Florin, 1968, 7.5-minute
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SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





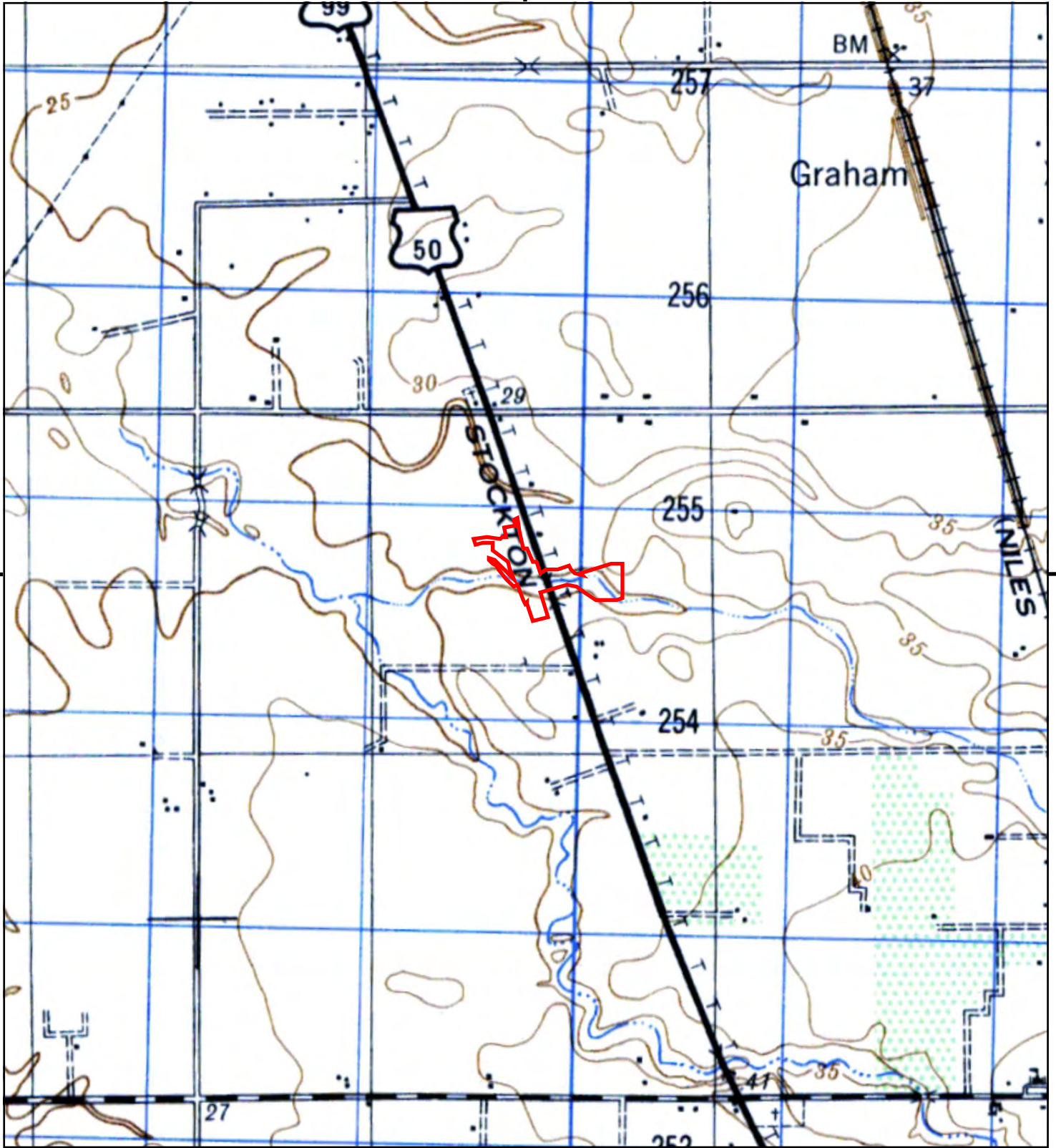
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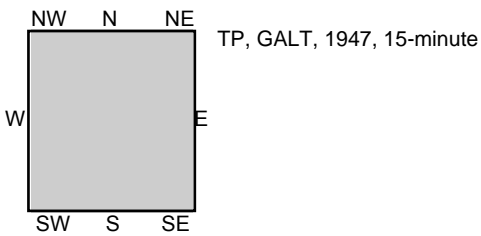
TP, Florin, 1953, 7.5-minute
E, Elk Grove, 1952, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.



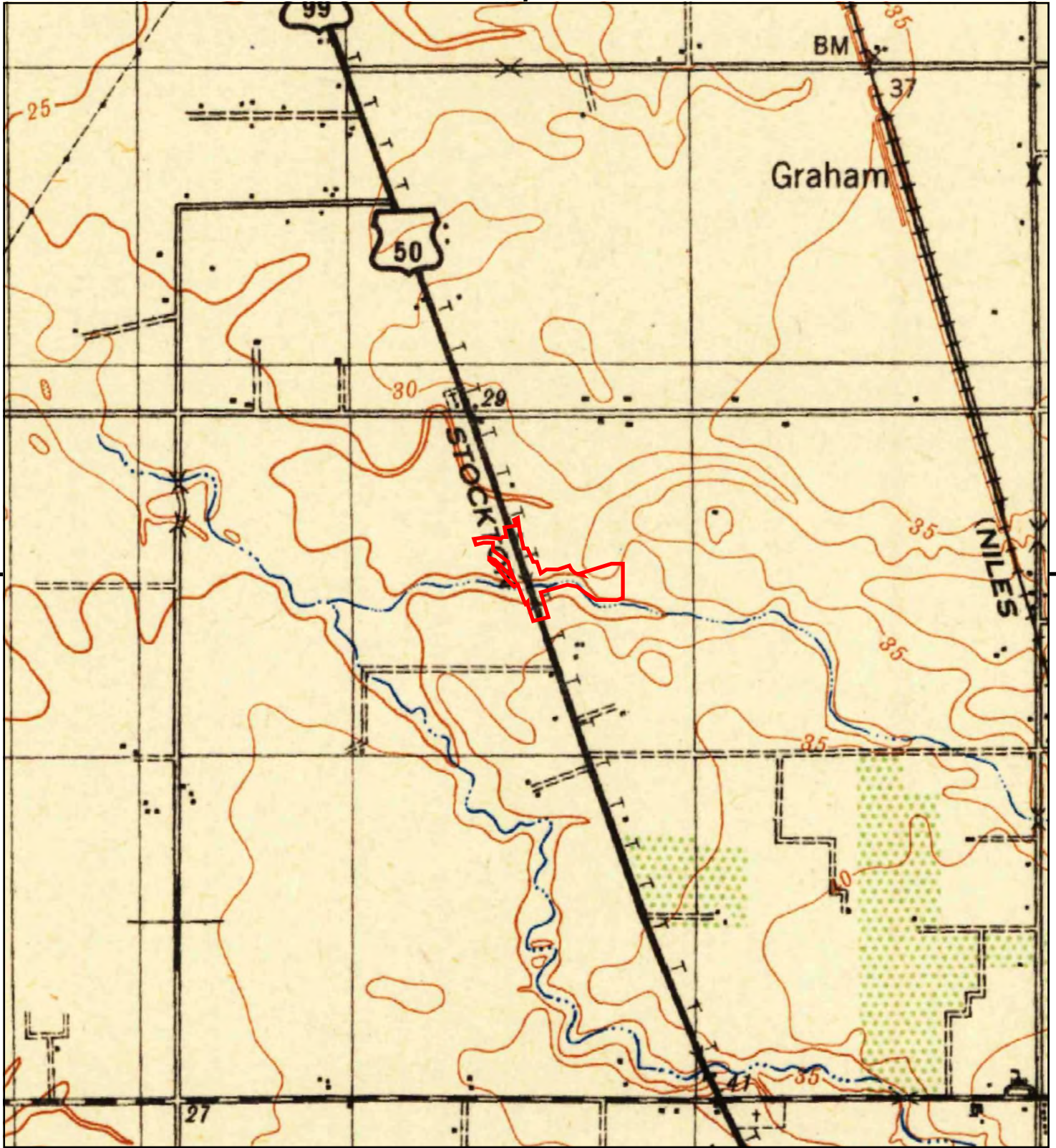


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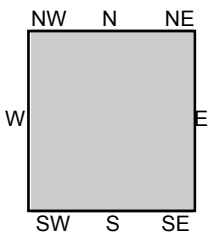
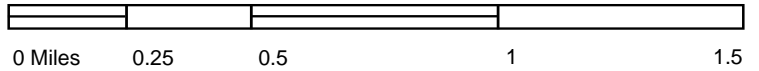


SITE NAME: Laguna Creek Trail
 ADDRESS: Laguna Creek
 Elk Grove, CA 95758
 CLIENT: Geocon Consultants, Inc.





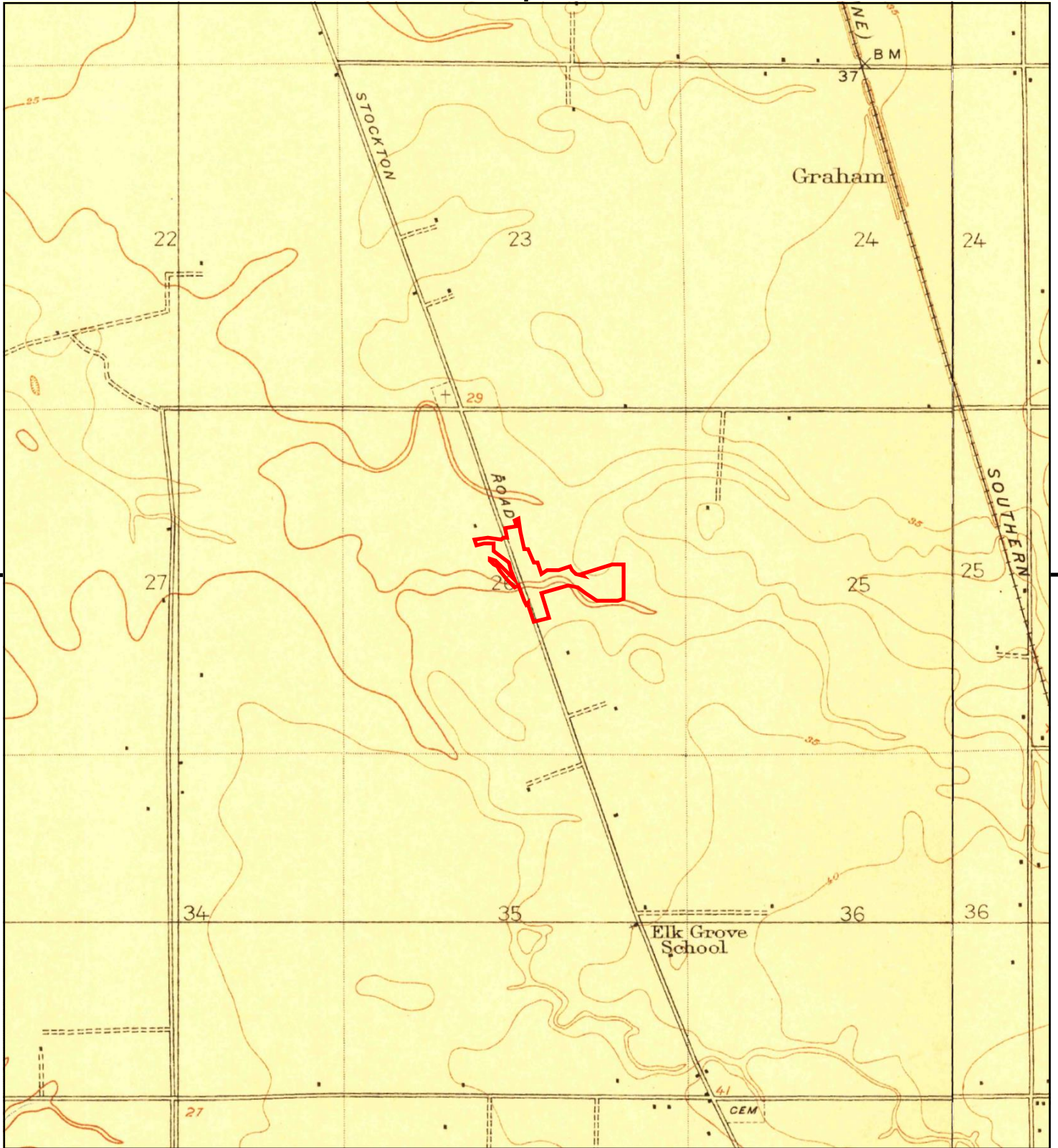
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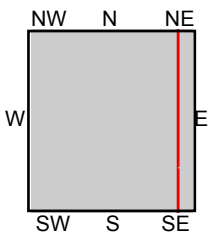
TP, Franklin, 1941, 15-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





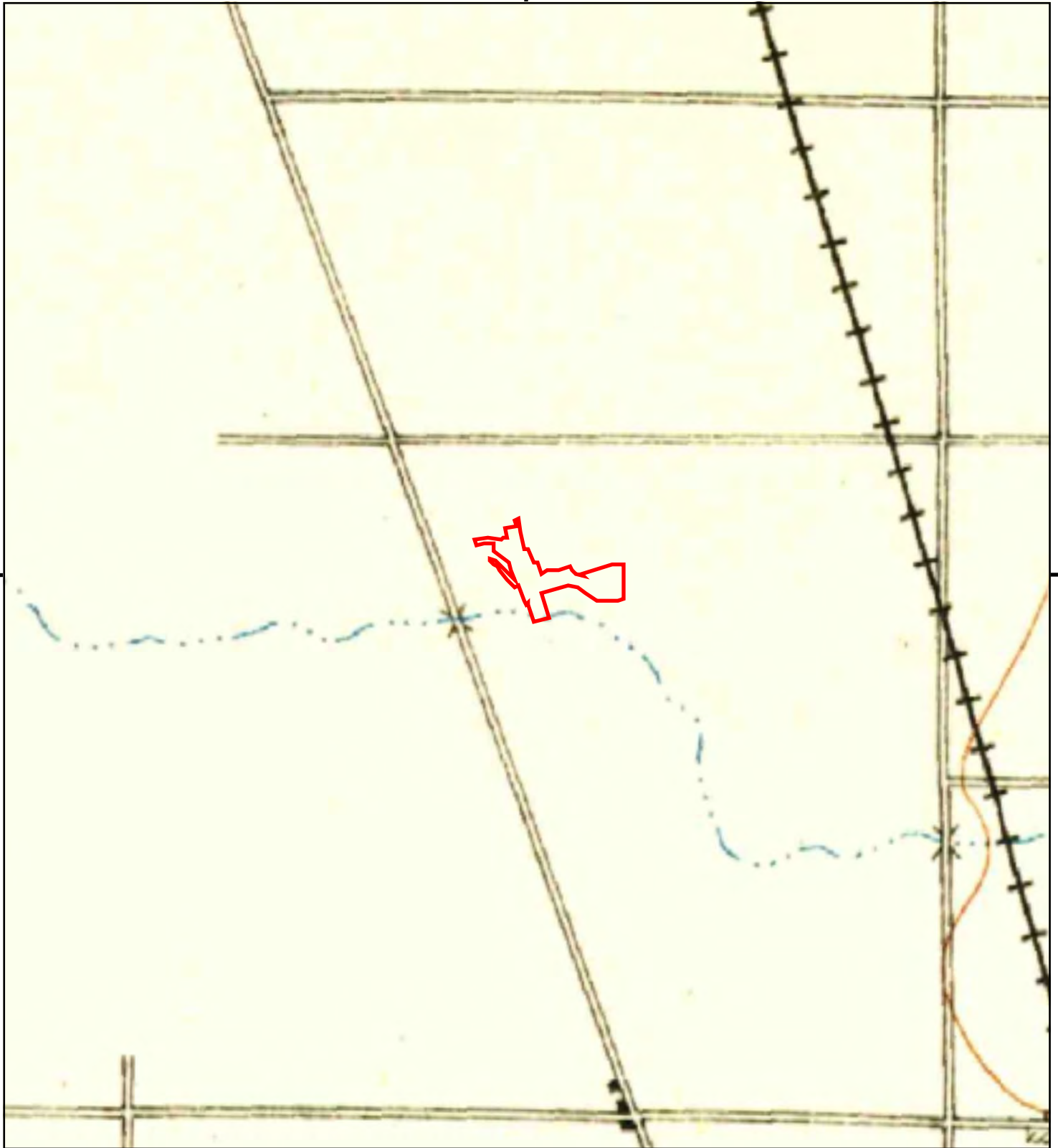
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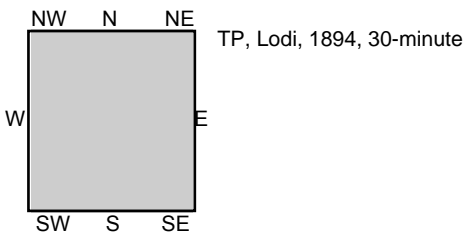
TP, Florin, 1909, 7.5-minute
E, Elk Grove, 1909, 7.5-minute

SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.





This report includes information from the following map sheet(s).



SITE NAME: Laguna Creek Trail
ADDRESS: Laguna Creek
Elk Grove, CA 95758
CLIENT: Geocon Consultants, Inc.



APPENDIX

A solid green triangle pointing to the left, containing the letter 'E' in white.

E

Laguna Creek Trail

Laguna Creek
Elk Grove, CA 95758

Inquiry Number: 7597395.5

March 19, 2024

The EDR-City Directory Image Report

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City Directory Images

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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 business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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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.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
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1977	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1971	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

Laguna Creek
Elk Grove, CA 95758

Year CD Image Source

LAGUNA CREEK

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2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
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1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1986	-	Haines Criss-Cross Directory	Street not listed in Source
1981	-	Haines Criss-Cross Directory	Street not listed in Source
1977	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

W STOCKTON BLVD

1990	pg A9	Haines Criss-Cross Directory
1986	pg A10	Haines Criss-Cross Directory
1986	pg A11	Haines Criss-Cross Directory
1981	pg A12	Haines Criss-Cross Directory
1977	pg A13	Haines Criss-Cross Directory
1971	pg A14	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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W STOCKTON BLVD

2020	pg. A1	EDR Digital Archive
2017	pg. A2	Cole Information
2014	pg. A3	Cole Information
2010	pg. A4	Cole Information
2005	pg. A5	Cole Information
2000	pg. A6	Cole Information
1995	pg. A7	Cole Information
1992	pg. A8	Cole Information

City Directory Images

W STOCKTON BLVD 2020

9105 CICADA CANTINA
J & A FOOD SVC
9131 ADT
ANSON WANG
BEST BUY
GEEK SQUAD
9135 SPRING VILLA CHINESE CUISINE
STEVE'S PIZZA
9139 ABNER MADARIAGA
BLOOM HEARING AID CTR
DIANA LOVATO
EUROPEAN WAX CTR
MASSAGE ENVY
MELISSA ITURRARAN

W STOCKTON BLVD 2017

9105 LOGANS ROADHOUSE
9131 ADT SECURITY SERVICES
9135 SPRING VILLA CHINESE CUISINE
STEVES PIZZA INC
9139 EUROPEAN WAX CENTER
MASSAGE ENVY
MCDONALD HEARING AIDS

W STOCKTON BLVD 2014

9105 LOGANS ROADHOUSE
9131 ADT SECURITY SERVICES
BEST BUY
9135 SPRING VILLA CHINESE CUISINE
STEVES PIZZA INC
9139 EUROPEAN WAX CENTER
MASSAGE ENVY
MCDONALD HEARING AIDS

W STOCKTON BLVD 2010

- 9105 LOGANS ROADHOUSE
- 9131 MAGNOLIA HOME THEATER
- 9135 BASKINROBBINS
- GATEWAY PIZZA INC
- SPRING VILLA CHINESE CUISINE
- STEVES PIZZA
- TOGOS
- 9139 MASSAGE ENVY
- MC DONALD HEARING AIDS

W STOCKTON BLVD 2005

- 9131 BEST BUY
- 9135 BASKIN ROBBINS / TOGO S
SPRING VILLA CHINESE CUISINE
- 9139 COPPER KETTLE CANDY CO
J YEE & CO CORP
SLEEPLAND

Target Street

Cross Street

Source

-

✓

Cole Information

W STOCKTON BLVD 2000

8910 Haight, Luther S
9324 Med Clinic

Target Street

Cross Street

Source

-

✓

Cole Information

W STOCKTON BLVD 1995

8910 HAIGHT, LUTHER S JR

Target Street

Cross Street

Source

-

✓

Cole Information

W STOCKTON BLVD 1992

8910 HAIGHT, L S JR

W STOCKTON BLVD 1990

8729	LEW Soher	682-2620
8746	XXXX	00
8796	XXXX	00
8601	• S&S FENCE CO	682-1100 +0
6821	• MOSIER IMPLEMENT	682-9877
6883	XXXX	00
8910	HAIGHT L S Jr	682-6830 9
8919	XXXX	00
9140	XXXX	00

✓

-

W STOCKTON BLVD 1986

8729

LEW HENRY

682 2620

8746

XXXX

00

FR EXCEPT AS AUTHORIZED IN WRITING BY HAINES

W STOCKTON BLVD 1986

Target Street	Cross Street	Source
STOCKTON BLVD		95624 CONT
8796	XXXX	00
8801	VIKING STEEL FENCE	447-8844 + 6
8821	MOSIER IMPLEMENT	682-9977 9
8883	GUARDIA WM	423-2637 3
8910	HAIGHT L S JR	685-2351
8919	XXXX	00
9140	ALBANESE C	685-2354 0

W STOCKTON BLVD 1981

8729	LEW HENRY	682-2620	4
8746	STUBBLEFIELD F REV	682-9652	+1
8796	XXXX	00	
8821	MOSIER IMPLEMENT	682-8977	9
8883	GUARDIA WILLIAM	685-3483	+1
8910	HAIGHT L S JR	685-2351	4
8919	GARONER DONALO	685-2469	+1
9140	ALBANESE P	685-2354	0



-

W STOCKTON BLVD 1977

8729	LEW HENRY	682-2620 4
8796	ARNETT PHILLIP	682-2324+7
8910	HAIGHT L S JR	685-2351 4
8919	DEOCIO FRANK	685-2367+7
9140	ALBANESE P	685-2354 5
9140	WATSON COY	685-5541+7

W STOCKTON BLVD 1971

STOCKTON BLVD 95624 ELK GROVE

9189*EAST LAWN SOUTHGATE 422-4114

9660*CALIF ST DIV HWY 685-9544

NO # HAIGHT L S JR 682-2501+1

NO # KNEPPEL PETE 685-4124

* 2 BUS 2 RES 1 NEW

puter or photocopied, in any manner whatsoever exc

Appendix E: Water Quality Assessment

Water Quality Assessment Report Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project



Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
Sacramento County
District 3-SAC-99-14.3/14.4
EFIS Number: 0322000179
EA: 03-3J060
CML- 5479 (072)

August 2024



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Water Quality Assessment Report

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
Sacramento County
District 3-SAC-99-14.3/14.4
EFIS Number: 0322000179
EA: 03-3J060
CML- 5479 (072)

August 2024

STATE OF CALIFORNIA
Department of Transportation

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Approved By: *Mundeep Purewal* Date: 9/5/24
Mundeep Purewal, Senior Environmental Scientist
(530) 812-4370
Caltrans District 3

Executive Summary

The City of Elk Grove (City), in cooperation with the California Department of Transportation (Caltrans), proposes to construct a segment of the Laguna Creek Inter-Regional Trail System (LCIRT). The Project is needed to provide additional opportunities to utilize active modes of transportation and reduce the number of trips in motorized vehicles within the City of Elk Grove, as part of the Laguna Creek Inter-Regional Trail Crossing at State Route (SR) 99 Project (Project).

The purpose of the Water Quality Assessment Report (WQAR) is to fulfill the requirements of the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) and to provide information, to the extent possible, for National Pollutant Discharge Elimination System (NPDES) permitting. The document includes a discussion of the proposed Project, the physical setting of the Project area, and the regulatory framework regarding water quality. It also provides data on surface and groundwater resources, along with the water quality of these waters within the Project area. The report describes water quality impairments and beneficial uses, identifies potential water quality impacts/benefits associated with the proposed Project, and then recommends avoidance and/or minimization measures to prevent potentially adverse impacts.

Laguna Creek and Whitehouse Creek are the main surface water features within the Project area and will be impacted by the Project. Laguna Creek within the Project area is 303(d) listed and considerations for Total Maximum Daily Loads (TMDLs) for Benthic Community Effects, and Toxicity are necessary (Caltrans Water Quality Planning Tool, 2024). Whitehouse Creek is not 303(d) listed. The Project will result in an approximately 0.68 acre increase of new impervious surface. The Project would comply with the provisions of Permit Order No. R5-2016-0040-005 for the local jurisdiction as well as Order No. 2022-0033-DWQ for the areas within Caltrans right of way.

The following permits will be obtained for the proposed Project prior to construction: Section 404 Individual Permit from the United States (U.S.) Army Corps of Engineers (USACE), Section 401 Water Quality Certification from Regional Water Quality Control Board (RWQCB), National Pollutant Discharge Elimination System (NPDES) Permit from RWQCB, and Section 1602 Streambed Alteration Agreement from the California Department of Fish and Wildlife (CDFW). Construction of the proposed Project is also expected to disturb more than one acre of land around the proposed Project area. As a result, a Construction General Permit (CGP) will be obtained prior to start of construction. Adherence to the requirements set forth in these permits will minimize impacts to water quality and aquatic resources. The Project is expected to have minimum impact on the surrounding environment and the community during development and construction.

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ACRONYMS

Acronym	Definition
°F	Fahrenheit
Basin Plan	Water Quality Control Plan
Blvd	Boulevard
BMP	Best Management Practice
BSA	Biological Study Area
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CGP	Construction General Permit
City	City of Elk Grove
COI	Change of Information
CWA	Clean Water Act
DSA	Disturbed Soil Area
EPA	Environmental Protection Agency
GGG	Giant garter snake
LCIRT	Laguna Creek Inter-Regional Trail System
MS4	Municipal Separate Storm Sewer System
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NWPT	Northwestern pond turtle
Project	Laguna Creek Inter-Regional Trail Crossing at State Route 99
QPE	Qualifying Precipitation Events
RWQCB	Regional Water Quality Control Board
SDMP	Storm Drainage Master Plan
SMARTS	Stormwater Multiple Application and Report Tracking System
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
U.S.	United States
USACE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
WDR	Waste Discharge Requirement
WPCP	Water Pollution Control Plan
WQAR	Water Quality Assessment Report

1 INTRODUCTION

1.1 Approach to Water Quality Assessment

The purpose of the WQAR is to fulfill the requirements of NEPA and CEQA, and to provide information for NPDES permitting. The document includes a discussion of the proposed Project, the general environmental setting of the Project area, and the regulatory framework with respect to water quality. It also provides data on surface water and groundwater resources within the Project area and the water quality of these waters, describes water quality impairments and beneficial uses, identifies potential water quality impacts/benefits associated with the proposed Project, and recommends avoidance and/or minimization measures for potentially adverse impacts.

1.2 Project Description

The City of Elk Grove, in cooperation with Caltrans, proposes to construct a segment of the LCIRT which includes a pedestrian overcrossing spanning SR 99, East Stockton Boulevard (Blvd), and West Stockton Blvd; a multi-use trail east of the pedestrian overcrossing; and a pedestrian bridge spanning Whitehouse Creek in the City of Elk Grove (**Figure 1. Project Vicinity** and **Figure 2. Project Location**).

The City of Elk Grove has a network of multi-use trails that are located throughout the City, including the LCIRT system. The LCIRT provides users access to schools, employment, commercial centers, recreational amenities, and community facilities; however, a significant gap in the system is created by the barrier of SR 99 where users are forced off the trail and onto local roads that lack adequate pedestrian and bicycle facilities. With the Project, the City will close that gap, providing a safe route across the barrier by constructing a pedestrian overcrossing over SR 99, East Stockton Blvd, and West Stockton Blvd. Additionally, as part of the gap closure, the Project will construct a multi-use trail east of the overcrossing and a pedestrian bridge over Whitehouse Creek, thereby completing the pedestrian/bicycle facilities. The purpose of the Project is to fill the final gap and complete the City's LCIRT. This Project is needed to provide additional opportunity to utilize active modes of transportation and reduce the number of trips in motorized vehicles.

The pedestrian overcrossing of SR 99, West Stockton Blvd, and East Stockton Blvd is proposed as a concrete structure approximately 760-feet-long. The pedestrian bridge over Whitehouse Creek is proposed as a prefabricated truss. Lastly, the multi-use trail would be a Class I bikeway. See **Figure 3. Project Features** for more information.

Right-of-way acquisitions and temporary construction easements are needed where the multi-use trail passes through privately-owned parcels and will be obtained during final design of the Project. Below ground and aerial utility relocations are anticipated. Additionally, a Caltrans Encroachment permit will be required due to the work over SR 99, which is a Caltrans owned facility. Construction is anticipated to start in 2026 and is anticipated to last approximately 18 months.

This Project is funded through both local and federal funds and is subject to compliance with CEQA and NEPA. The lead agency for CEQA compliance is the City and the NEPA lead agency is Caltrans.

Drainage Information

Laguna Creek and Whitehouse Creek are the surface water features present within the Project area. Laguna Creek is the largest creek in the City and is a tributary of the Sacramento River. Within the Project area, Laguna Creek flows from the east to the west via a meandering path, and flowing under East Stockton Blvd, SR 99, and West Stockton Blvd. Areas within and adjacent to the Project area, including Whitehouse Creek, drain toward Laguna Creek. Directly west of the West Stockton Blvd Bridge, a bypass channel north of the main Laguna Creek channel diverts flows from the creek during high flow events. Whitehouse Creek is a tributary, joining Laguna Creek from the north immediately east of the Creekside Christian Church property (located at 8939 E Stockton Blvd, Elk Grove, CA 95624). Construction of the proposed Project would result in a Disturbed Soil Area (DSA) of one acre or greater and would add approximately 0.68 acres of new impervious surface.

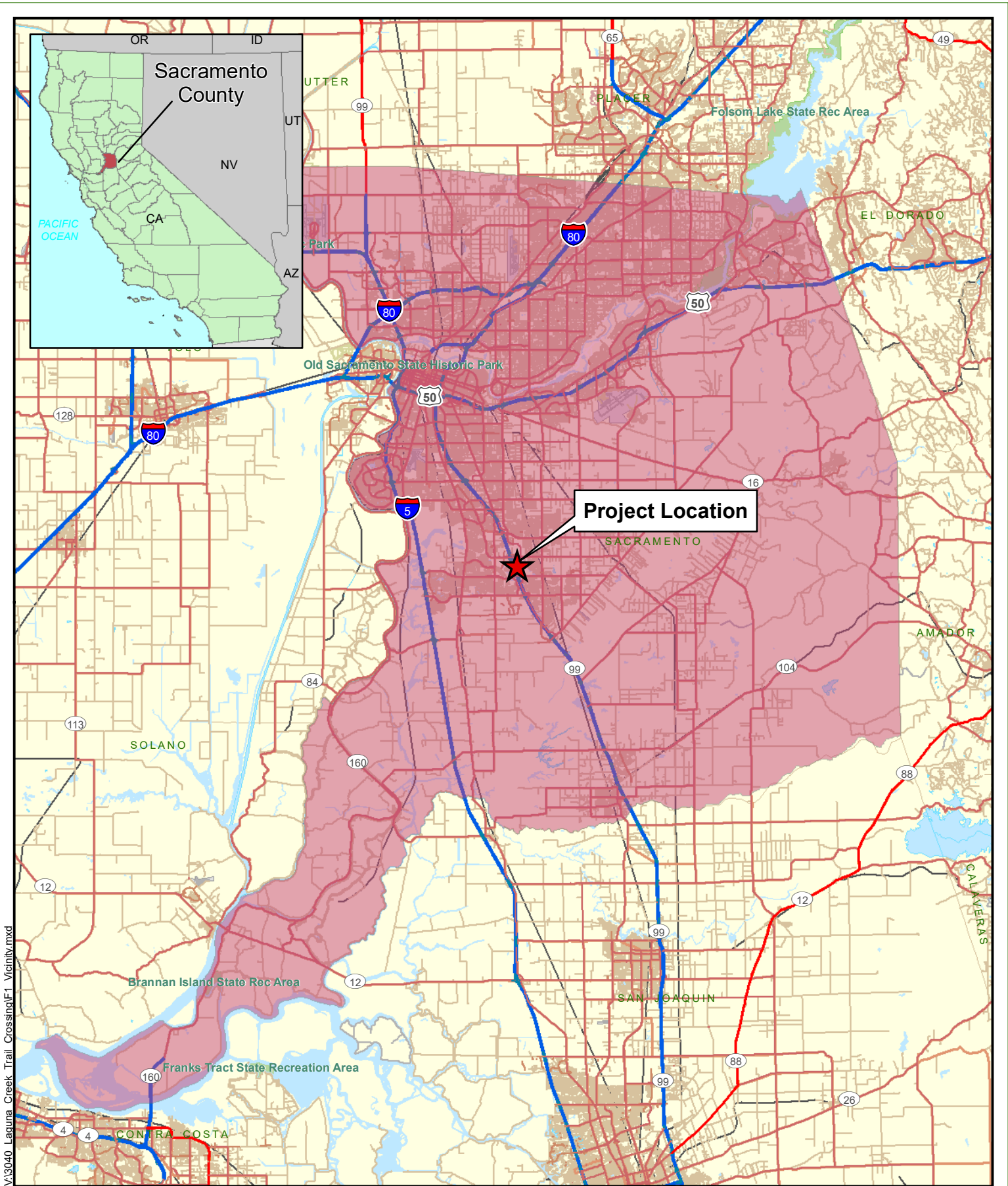
With any construction project, indirect effects to receiving water may occur due to construction site soil disturbance and stormwater runoff. The Project's compliance with City and State water quality and stormwater Best Management Practices (BMPs) will ensure that the Project avoids and/or minimizes potential water quality impacts to the greatest extent practicable.

Risk Level Assessment

The CGP contains a risk-based permitting approach by establishing three levels of risk possible for a construction site. Risk levels are determined during the planning, design, and construction phases, and are based on project risk of generating sediments and receiving water risk of becoming impaired. Requirements are determined according to the Risk Level determined. For example, a Risk Level 3 (highest risk) project would require compulsory stormwater runoff pH and turbidity monitoring, and pre- and post-construction aquatic biological assessments during specified seasonal windows. The risk level for this Project has been estimated as a Level 2 with low sediment risk and a high receiving water risk.

1.2.1 No Project Alternative

As part of the No-Build Alternative, the SR 99 pedestrian overcrossing, pedestrian bridge over Whitehouse Creek, and the multi-use trail would not be built. The City's LCIRT would not be completed, and SR 99 would remain a barrier for users of the LCIRT.



V:\3040_Laguna Creek Trail Crossing\F1_Vicinity.mxd

Source: ESRI 2008; Dokken Engineering/6/21/2023; Created By: ahale

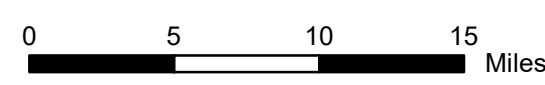


FIGURE 1
Project Vicinity
 CML-5479(072)
 Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
 City of Elk Grove, Sacramento County, California

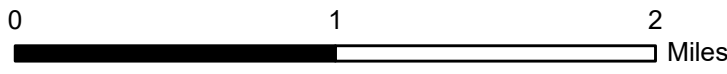
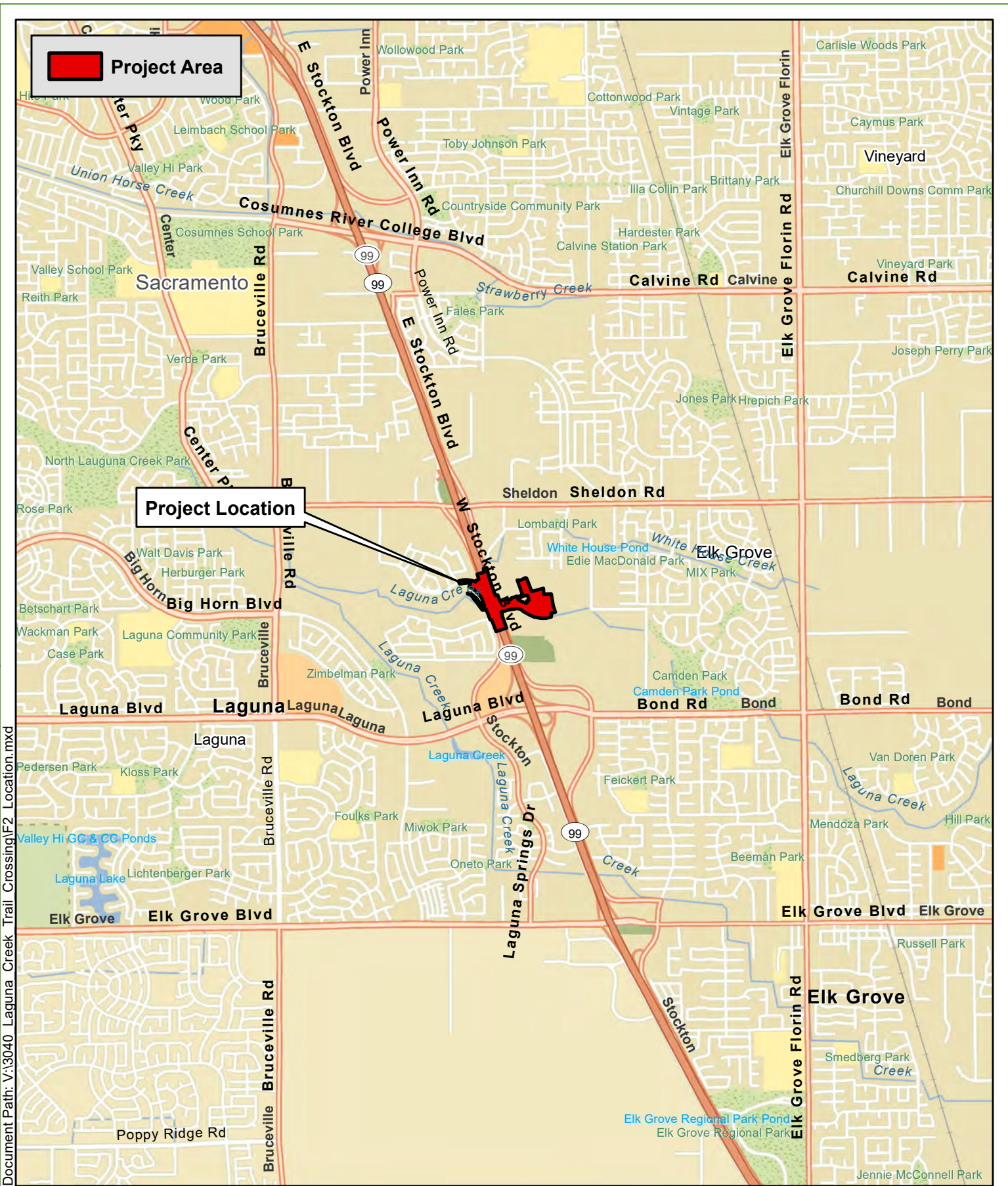
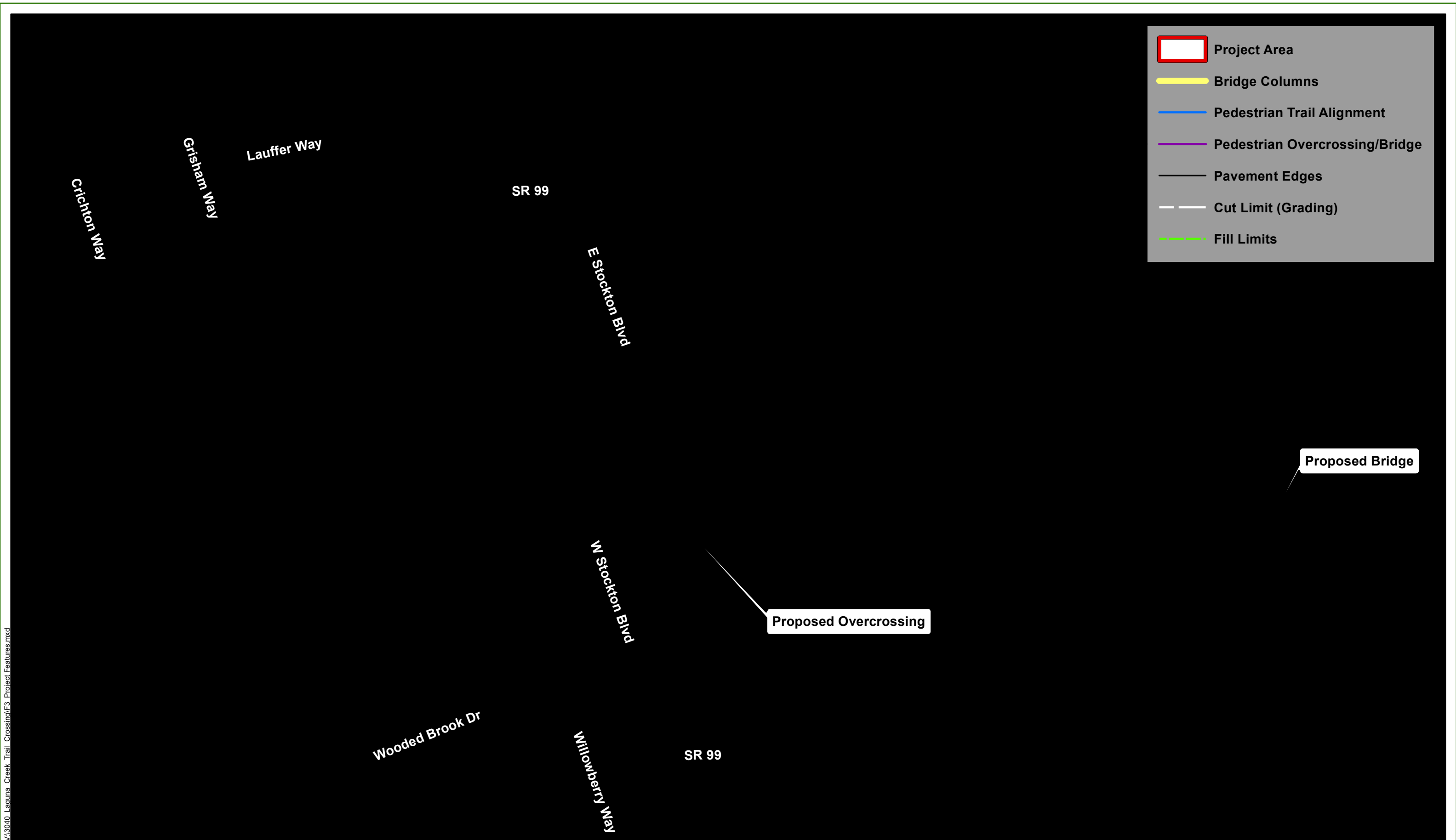


FIGURE 2
Project Location

CLM-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California



V:\3040 Laguna Creek Trail Crossing\F3 Project Features.mxd

Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd



FIGURE 3
Project Features

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

2 REGULATORY SETTING

2.1 Federal Laws and Requirements

2.1.1 Clean Water Act

In 1972 Congress amended the Federal Water Pollution Control Act, making the addition of pollutants to the waters of the U.S. from any point source unlawful unless the discharge is in compliance with a NPDES permit. Known today as the Clean Water Act (CWA), Congress has amended it several times. In the 1987 amendments, Congress directed dischargers of stormwater from municipal and industrial/construction point sources to comply with the NPDES permit program. Important CWA sections are:

- Sections 303 and 304 require states to promulgate water quality standards, criteria, and guidelines.
- Section 401 requires an applicant for a federal license or permit to conduct any activity, which may result in a discharge to waters of the U.S., to obtain certification from the State that the discharge will comply with other provisions of the act. (Most frequently required in tandem with a Section 404 permit request, see below).
- Section 402 establishes the NPDES, a permitting system for the discharges (except for dredge or fill material) of any pollutant into waters of the U.S. The Federal Environmental Protection Agency delegated to the California State Water Resources Control Board (SWRCB) the implementation and administration of the NPDES program in California. The SWRCB established nine RWQCBs. The SWRCB enacts and enforces the Federal NPDES program and all water quality programs and regulations that cross Regional boundaries. The nine RWQCBs enact, administer and enforce all programs, including NPDES permitting, within their jurisdictional boundaries. Section 402(p) requires permits for discharges of stormwater from industrial, construction, and Municipal Separate Storm Sewer Systems (MS4s).
- Section 404 establishes a permit program for the discharge of dredge or fill material into waters of the U.S, including wetlands. This permit program is administered by the USACE.

The objective of the CWA is “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters.”

The USACE issues two types of 404 permits: General and Individual. There are two types of General permits: Regional and Nationwide permits. Regional permits are issued for a general category of activities when they are similar in nature and cause minimal environmental effect. Nationwide permits are issued to authorize a variety of minor project activities with no more than minimal effects.

There are also two types of Individual permits: Standard Individual permit and Letter of Permission. Ordinarily, projects that do not meet the criteria for a Nationwide Permit may be permitted under one of USACE’s Individual permits. For Standard Individual permit, the USACE decision to approve is based on compliance with U.S. Environmental Protection Agency’s (EPA) Section 404 (b)(1) Guidelines (U.S. EPA Code of Federal Regulations (CFR) 40 Part 230) and

whether permit approval is in the public interest. The 404(b)(1) Guidelines were developed by the U.S. EPA in conjunction with USACE and allow the discharge of dredged or fill material into the aquatic system (waters of the U.S.) only when there is no practicable alternative which would have less adverse effects. The Guidelines state that USACE may not issue a permit if there is a least environmentally damaging practicable alternative, to the proposed discharge that would have less effects on waters of the U.S., and not have any other significant adverse environmental consequences. Per Guidelines, documentation is needed that a sequence of avoidance, minimization, and compensation measures have been followed, in that order. The Guidelines also restrict permitting activities that violate water quality or toxic effluent standards, jeopardize the continued existence of listed species, violate marine sanctuary protections, or cause “significant degradation” to waters of the U.S. In addition, every permit from the USACE, even if not subject to the 404(b)(1) Guidelines, must meet general requirements. See 33 CFR 320.4.

2.2 State Laws and Requirements

2.2.1 Porter-Cologne Water Quality Control Act

California’s Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. This Act requires a “Report of Waste Discharge” for any discharge of waste (liquid, solid, or gaseous) to land or surface waters that may impair beneficial uses for surface and/or groundwater of the State. It predates the CWA and regulates discharges to waters of the State. Waters of the State include more than just waters of the U.S., like groundwater and surface waters not considered waters of the U.S. Additionally, it prohibits discharges of “waste” as defined and this definition is broader than the CWA definition of “pollutant”. Discharges under the Porter-Cologne Act are permitted by Waste Discharge Requirements (WDRs) and may be required even when the discharge is already permitted or exempt under the CWA.

The SWRCB and RWQCBs are responsible for establishing the water quality standards as required by the CWA and regulating discharges to protect beneficial uses of water bodies. Details regarding water quality standards in a project area are contained in the applicable RWQCB Basin Plan. In California, Regional Boards designate beneficial uses for all water body segments in their jurisdictions, and then set standards necessary to protect these uses. Consequently, the water quality standards developed for particular water body segments are based on the designated use and vary depending on such use. Water body segments that fail to meet standards for specific pollutants are included in a Statewide List in accordance with CWA Section 303(d). If a Regional Board determines that waters are impaired for one or more constituents and the standards cannot be met through point source or non-source point controls (NPDES permits or WDRs), the CWA requires the establishment of TMDLs. TMDLs specify allowable pollutant loads from all sources (point, non-point, and natural) for a given watershed. The SWRCB implemented the requirements of CWA Section 303(d) through Attachment D of the Caltrans Statewide MS4 (Order No. 2022-0033-DWQ NPDES No. CAS000003), as it includes specific TMDLs for which Caltrans is named a responsible party.

2.2.2 State Water Resources Control Board and Regional Water Quality Control Boards

The SWRCB adjudicates water rights, sets water pollution control policy, and issues water board orders on matters of statewide application, and oversees water quality functions throughout the state by approving Basin Plans, TMDLs, and NPDES permits. RWCQB's are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility.

2.2.3 National Pollutant Discharge Elimination System Program

Section 402(p) of the CWA requires the issuance of NPDES permits for five categories of stormwater dischargers, including MS4s. The U.S. EPA defines an MS4 as "any conveyance or system of conveyances (roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, human-made channels, and storm drains) owned or operated by a state, city, town, county, or other public body having jurisdiction over stormwater, that are designed or used for collecting or conveying stormwater." The SWRCB has identified Caltrans as an owner/operator of an MS4 pursuant to federal regulations. Caltrans' MS4 permit covers all Caltrans rights-of-way, properties, facilities, and activities in the state. The SWRCB or the RWQCB issues NPDES permits for five years, and permit requirements remain active until a new permit has been adopted.

2.2.3.1 Municipal Separate Storm Sewer System

Caltrans' MS4 Permit, NPDES No. CAS000003, SWRCB Order No. 2022-0033-DWQ (adopted on June 22, 2022, and effective on January 1, 2023) (Permit) regulates stormwater and non-stormwater discharges from Caltrans properties and facilities associated with operation and maintenance of the State highway system. It contains four basic requirements:

1. Caltrans must comply with the requirements of the CGP (see below);
2. Caltrans must implement a year-round program in all parts of the State to effectively control stormwater and non-stormwater discharges; and
3. Caltrans stormwater discharges must meet water quality standards through implementation of permanent and temporary (construction) BMPs and other measures deemed necessary by the SWRCB and/or other agency having authority reviewing the stormwater component of the project.
4. Caltrans shall comply with the prohibition of discharge of trash to surface waters of the State or deposition of trash where it may be discharged into surface waters of the State through compliance with the requirements of Attachment E of the Permit. With a demonstration of full compliance by December 2, 2030.

Caltrans' 2022 MS4 Permit incorporated the requirements of the State Water Board Resolution 2015-0019, which amended the Water Quality Control Plan for Ocean Waters of California and the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California to include trash-related requirements, referred to in the Order as the "Trash Provisions." Implementation of the Trash Provisions includes the following:

- Caltrans shall install, operate, and maintain any combination of full capture systems, other treatment controls, and/or institutional controls for all storm drains that capture runoff from Significant Trash Generating Areas (where trash accumulates in substantial amounts as defined in section E4). Caltrans shall develop and implement monitoring plans that demonstrate that such combinations achieve full capture system equivalency.
- Caltrans shall coordinate efforts with municipal separate storm sewer system permittees subject to NPDES permits that implement the Trash Provisions, to install, operate, and maintain full capture systems, other treatment controls, and/or institutional controls in Significant Trash Generating Areas and/or Priority Land Uses.

To comply with the permit, Caltrans developed the Statewide Stormwater Management Plan (SWMP) to address stormwater pollution controls related to highway planning, design, construction, and maintenance activities throughout California. The SWMP assigns responsibilities within Caltrans for implementing stormwater management procedures and practices as well as training, public education and participation, monitoring and research, program evaluation, and reporting activities. The SWMP describes Caltrans' stormwater management program and the minimum procedures and practices Caltrans uses to reduce pollutants in stormwater and non-stormwater discharges. It outlines procedures and responsibilities for protecting water quality, including the selection and implementation of BMPs. The proposed project will be programmed to follow the guidelines and procedures outlined in the latest SWMP to address stormwater runoff.

The City of Elk Grove along with the Cities of Citrus Heights, Folsom, Galt, Rancho Cordova, and Sacramento, and the County of Sacramento operate under a MS4 permit to discharge urban runoff from in their municipal jurisdictions (Order No. R5-2016-0040 with the Elk Grove-specific General Order No. as R5-2016-0040-005 and NPDES Permit No. CAS0085324) (Central Valley RWQCB, 2016). The permit covers requirements for management of hydromodification and also requires that the City prepare a Storm Water Management Plan (also known as Stormwater Quality Improvement Plans) and impose water quality and watershed protection measures for all development projects. The intent of the waste discharge requirements in the NPDES Permit is to attain water quality standards and protection of beneficial uses consistent with the Basin Plan. The NPDES permit prohibits discharges from causing violations of applicable water quality standards or resulting in conditions that create a nuisance or water quality impairment in receiving waters. The NPDES also requires every new construction project to secure a permit that implements the following measures:

- Eliminate or reduce non-stormwater discharges to stormwater systems and other waters of the nation.
- Develop and implement a Stormwater Pollution Prevention Plan (SWPPP).
- Perform inspections of stormwater control structures and pollution prevention measures.

Stormwater quality control measures within Elk Grove are guided by the Sacramento Region Stormwater Quality Design Manual (July 2018). The manual outlines planning tools and requirements to reduce urban runoff pollution to the maximum extent practicable from new development and redevelopment projects, including the use of porous surfaces on roadways.

2.2.3.2 Construction General Permit

The Construction General Permit (NPDES No. CAS000002, SWRCB Order No. 2022-0057-DWQ, was adopted on September 8, 2022) and effective on September 1, 2023. The permit regulates stormwater discharges from construction sites which result in a DSA of one acre or greater, and/or are smaller sites that are part of a larger common plan of development.

- For all projects subject to the CGP, the applicant is required to hire a Qualified Stormwater Pollution Prevention Plan (SWPPP) Developer to develop and implement an effective SWPPP. A Qualified SWPP Practitioner may be hired as well to assist in field work. All Project Registration Documents, including the SWPPP, Risk Level Determinations, Site map and post-construction treatment documents are required to be uploaded into the SWRCB's on-line Stormwater Multiple Application and Report Tracking System (SMARTS). A Waste discharge Identification number will be issued within 10 business days after the State Waterboard receives a complete Notice of Intent (NOI) package.
- The 2022 CGP requires post-construction treatment permit registration documents to be submitted in SMARTS with the NOI to include: (1) An attachment or web-source containing the NPDES MS4 post-construction requirements and (2) the post-construction plans and calculations (Preliminary post-construction plans and calculations may be submitted as a Permit Registration Document, as long as the approved plans and calculations are submitted within 14 days of approval by the municipal stormwater permittee, through a Change of Information (COI) in SMARTS). Additionally, a COI in SMARTS must be submitted for any revisions to post-construction plans and calculations prior to submitting the Notice of Termination.

2.2.3.2.1 Waiver From Construction General Permit

Projects that disturb over one acre but less than 5 acres of soil, may qualify for waiver of CGP coverage. This occurs whenever the Rainfall Erosivity, (R) in the Revised Universal Soil Loss Equation (RUSLE) is less than 5. When the R factor is below the numeric value of 5, projects can be waived from coverage under the CGP, and are instead covered by the Caltrans Statewide MS4 permit. Refer to the CGP, Attachment D1, Risk Determination Worksheet of the CGP, link provided in Section 6.

In accordance with the SWMP, a Water Pollution Control Plan (WPCP) is necessary for construction of a Caltrans project not covered by the CGP.

Construction activity that results in soil disturbances of less than one acre is subject to this CGP if there is potential for significant water quality impairment resulting from the activity as determined by the RWQCB. Operators of regulated construction sites are required to develop a SWPPP, to implement soil erosion and pollution prevention control measures, and to obtain coverage under the CGP.

2.2.3.2.2 Risk Level Inspection and Sampling Requirements

The CGP contains a risk-based permitting approach by establishing three levels of risk possible for a construction site. Risk levels are determined during the planning, design, and construction phases, and are based on project risk of generating sediments and receiving water risk of becoming impaired. Requirements apply according to the Risk Level (RL) determined, with

additional monitoring and reporting requirements for higher risk projects with detailed requirements listed in Attachment D of the CGP. Requirements include:

- Visual inspections weekly, prior to Qualifying Precipitation Events (QPEs), during QPEs (every 24 hours) and post QPEs. A qualifying Storm Event is defined as a forecasted 50% probability of precipitation of 0.5” or more within a 24-hour period and continues on subsequent 24-hour periods when 0.25 inches or more is forecast.
- RL 2 and 3 projects have sampling requirement for pH and Turbidity.
- Additionally, sampling for Numeric Action Levels and Numeric Effluent Limits is required for all risk level projects for TMDL-related non-visible pollutants listed in Attachment H of the CGP, if there is a discharge due to failure to implement a BMP, a container spill or leak, or a BMP breach or malfunction.

2.2.4 Section 401 Permitting

Under Section 401 of the CWA, any project requiring a federal license or permit that may result in a discharge to a water of the United States must obtain a 401 Certification, which certifies that the project will be in compliance with State water quality standards. The most common federal permit triggering 401 Certification is a CWA Section 404 permit, issued by USACE. The 401 permit certifications are obtained from the appropriate RWQCB, dependent on the project location, and are required before USACE issues a 404 permit.

In some cases, the RWQCB may have specific concerns with discharges associated with a project. As a result, the RWQCB may prescribe a set of requirements known as WDRs under the State Water Code (Porter-Cologne Act). WDRs may specify the inclusion of additional project features, effluent limitations, monitoring, and plan submittals that are to be implemented for protecting or benefiting water quality. WDRs can be issued to address both permanent and temporary discharges of a project.

2.3 Regional and Local Requirements

2.3.1 Regional Water Quality Control Board Basin Plan

The Project is under the jurisdiction of the Central Valley RWQCB. The Central Valley RWQCB implements the *Water Quality Control Plan (Basin Plan) for the California Regional Water Quality Control Board Central Valley Region: The Sacramento River Basin and the San Joaquin River Basin* (Central Valley RWQCB, 2019) to regulate surface and groundwater quality in the region. The Basin Plan lists beneficial uses and water quality objectives to protect resources within its jurisdiction.

2.3.2 Stormwater Management Plan

In 2007, Sacramento County and the cities of Citrus Heights, Elk Grove, Folsom, Galt, Rancho Cordova, Roseville, and Sacramento created the Stormwater Quality Design Manual for the Sacramento and South Placer Regions. The manual describes selection measures for source pollution and stormwater treatment for new development. In 2018, the partnership updated the

manual to include information from the original as well as hydromodification management and low-impact development design standards (City of Sacramento, 2018).

2.3.3 City of Elk Grove Storm Drainage Master Plan

In 2011 the City of Elk Grove adopted a comprehensive Storm Drainage Master Plan (SDMP) to provide a variety of drainage concepts for upgrading the existing storm drainage and flood control collection system (with a minor update in 2019). The City will adopt an updated SDMP in 2026. The SDMP identified and analyzed drainage deficiencies throughout the City and provided a range of drainage concepts for the construction of future facilities required to serve the City at buildout of the General Plan and established criteria for selecting and prioritizing projects. Furthermore, the SDMP may be utilized for the development of a capital drainage financing program. The SDMP combined the demands of flood-risk reduction with ecosystem enhancements while incorporating urban development and rural residential land uses to provide an effective plan that meets both the City's and community's vision. The Project will comply with the existing SDMP and any future updates that are approved prior to construction of the Project.

2.3.4 City of Elk Grove General Plan

The policies below are excerpted from the City of Elk Grove General Plan (City of Elk Grove, 2023). These policies are designed to ensure that the water supply is clean and safe within the City's jurisdiction.

Policy NR-3-1: Ensure that the quality of water resources (e.g., groundwater, surface water) is protected to the extent possible.

Policy NR-3-2: Integrate sustainable stormwater management techniques in site design to reduce stormwater runoff and control erosion.

Policy NR-3-3: Implement the City's National Pollutant Discharge Elimination System permit through the review and approval of development projects and other activities regulated by the permit.

3 AFFECTED ENVIRONMENT

This affected environment section describes the environmental characteristics within the proposed Project area. Population, land use, topography, regional and local hydrology, groundwater hydrology, geology/soils, biological communities, water quality standards, and beneficial uses are discussed.

3.1 General Environmental Setting

The Project is centrally located in the City of Elk Grove, within Section 26, Township 7 North, Range 5 East. It is within the United States Geological Survey Florin 7.5-minute topographic quadrangle. The Project area is perpendicular to SR 99 and extends ~1,300 feet east of East Stockton Blvd and ~550 feet west of West Stockton Blvd.

The Project area includes Laguna Creek and Whitehouse Creek. Laguna Creek is a natural riverine tributary of the Sacramento River that runs east to west through central Sacramento County. Whitehouse Creek is a man-made excavated creek that flows from east to west through central Sacramento County and has been redirected around residential developments north of the Project area.

3.1.1 Population and Land Use

The Project is located within the City of Elk Grove, which, according to the U.S. Census, has a total population of 178,444 as of 2023 (U.S. Census, 2023). The population has grown approximately 1.3% since 2020.

Land uses within the Project area are a mixture of Regional Commercial and Low and Medium Density Residential (City of Elk Grove, 2023). Within the Project area, designated land uses consist of Resource Management and Conservation, Low Density Residential, Regional Commercial, and Public Services.

The undeveloped area west of the Project area, which contains Laguna Creek, is designated as Resource Management and Conservation. This designation consists of both public and private lands, including but not limited to lands used for habitat mitigation, wetland protection, and floodways (City of Elk Grove, 2023).

3.1.2 Topography

The topography within the Project area is a flat terrain consisting of alluvial soils from mixed but mainly granite rock sources. Sections of Laguna Creek has been graded and leveled, primarily to the west of West Stockton Blvd. The topography of the area within the Project comprises of a flat terrain ranging from 0 to 3 percent slopes. Natural slopes are not present within or in the vicinity of the Project area. The existing slopes in the Project area are associated with the exiting nearby bridge structures and the creation of the Whitehouse Creek channel, which were all designed and engineered.

3.1.3 Hydrology

3.1.3.1 Regional Hydrology

The Project is located within Sacramento County. Sacramento County is part of the Sacramento River watershed, which covers approximately 27,000 square miles, with 400 miles of riverbed from Lake Shasta to the convergence of the Sacramento-San Joaquin Delta. Laguna Creek, the Cosumnes River, and the Sacramento River are the main surface hydrological features in and near the City of Elk Grove (Elk Grove, 2018).

3.1.3.2 Local Hydrology

3.1.3.2.1 Precipitation and Climate

The Project is located adjacent to SR 99 and East Stockton Blvd within the City of Elk Grove, in Sacramento County. Sacramento County experiences Mediterranean conditions including warm, dry summers and cool, wet winters. The average annual high temperature is approximately 74 degrees Fahrenheit (°F), and the average annual lows reach approximately 48°F, with up to 18.52 inches of precipitation annually (U.S. Climate Data, 2024).

3.1.3.2.2 Surface Water

A portion of the Biological Study Area (BSA) includes Whitehouse Creek and Laguna Creek, which are considered perennial creeks (**Figure 4. Vegetation Communities**). Laguna Creek and Whitehouse Creek are part of the Morrison Creek watershed, and Laguna Creek subwatershed, within the Lower Sacramento River Hydrologic Unit (HUC 6). The perennial creek habitat type is defined as the average wetted area within the perennial linear water features such as rivers, streams, and creeks. Habitat types typically found immediately adjacent to the stream and creek habitat within the Project area include seasonal wetland, seasonal wetland swales, emergent wetlands, and annual grassland habitats (**Figure 4. Vegetation Communities**). These aquatic and terrestrial habitats support a variety of wildlife, including several special status species, which are discussed in section 3.1.5.1.1. Additionally, the water quality objectives and beneficial uses for Laguna and Whitehouse Creek are listed in section 3.2.1.

3.1.3.2.3 Total Maximum Daily Loads

The Central Valley RWQCB assessed all readily available data for waters in the Central Valley Region. The 2020-2022 Integrated Report was adopted by the State Water Board on January 19, 2022 and approved by U.S. EPA on May 11, 2022. According to the 2020-2022 Integrated Report, Laguna Creek, which is located within the Project area, is included in the 303(d) list and considered a Category 5 waterbody. Whitehouse Creek is not listed. The criteria for Category 5 is the following: a water segment where standards are not met and a TMDL is required, but not yet completed, for at least one of the pollutants being listed for this segment. The pollutants listed for this segment, along with additional information, is included in **Table 1** below.

Table 1. Laguna Creek 2020-2022 303(d) List

<u>Pollutant</u> Potential sources	Estimated Area Assessed	First Year Listed	TMDL Requirement Status*	Date**
<u>Benthic Community Effects</u> A Source Unknown	30 miles	2020	5A	2034
<u>Toxicity</u> A Source Unknown	30 miles	2020	5A	2035
*TMDL requirement status definitions for listed pollutants are: A= TMDL still required **Dates relate to the TMDL requirement status, so a date for A= TMDL scheduled completion date, B= Date USEPA approved TMDL, and C= Completion date for action other than a TMDL Source: State Water Resources Control Board, 2022				

According to Attachment D of the Caltrans Statewide MS4 NPDES Permit, Caltrans is not identified as a responsible party for a TMDL pollutant in the Project limits. Additionally, there are no pollutants listed in the 2022 CGP Non-Visible Pollutant Monitoring Requirements for the Central Valley.

3.1.3.2.4 Areas of Special Biological Significance

According to the California's Areas of Special Biological Significance map provided by the SWRCB, there are no ASBS within the Project area (SWRCB 2017).

3.1.3.2.5 Floodplains

The Federal Emergency Management Agency Flood Insurance Rate Map designates the Project area within three zones: Zone X, Zone AE, and Zone AH. Zone X signifies a minimal flood hazard area with a 0.2% annual chance of flooding. Zone AE and AH designates areas that are within the 100 year base flood zone and have a 1% annual chance of flooding (**Appendix A, FEMA FIRMetete Map**).

3.1.3.2.6 Municipal Supply

According to the Elk Grove General Plan, water supply in the City consists of both surface water and groundwater sources. Runoff from precipitation and snowmelt from the Sierra Nevada are the main sources of surface water supply in the City. However, a majority of the City's water supply comes from groundwater (City of Elk Grove, 2023). The Sacramento County Water Agency is the water service provider within the Project area. There are no water recharge facilities within the Project area.

3.1.3.3 Groundwater Hydrology

The City is situated within the Sacramento Valley Groundwater Basin, South American Subbasin. Within the larger South American Subbasin, there are three groundwater basins—North, Central, and South—in Sacramento County; the City is within the Central Basin. Groundwater in the Central Basin generally occurs in a shallow aquifer zone (Laguna or Modesto Formation) or in an underlying deeper aquifer zone (Mehrten Formation) extending

approximately 200 to 300 feet below the ground surface (City of Elk Grove, 2023). The groundwater quality in the South American Subbasin is generally good and meets local needs for municipal, domestic, and agricultural uses, although iron and manganese are common and there are some occurrences of arsenic and nitrate (South American Subbasin, 2021). The water quality objectives and beneficial uses for groundwater in this area are listed in section 3.2.3.

3.1.4 Geology/Soils

The soil types within the Project area include Bruella sandy loam with 0 to 2 percent slopes, Madera loam with 0 to 2 percent slopes, San Joaquin silt loam, leveled, with 0 to 1 percent slopes, and San Joaquin silt loam with 0 to 3 percent slopes (**Appendix B, NRCS 2024**). The erodibility factor (K-factor) for this area is 0.37, indicating that soils are moderately susceptible to particle detachment, and that it produces runoff at moderate rates (Caltrans Water Quality Planning Tool, 2024).

3.1.5 Biological Communities

3.1.5.1 Aquatic Habitat

Aquatic habitat in the Project area includes Laguna and Whitehouse Creeks, emergent wetlands, seasonal wetlands, and seasonal wetland swales.

3.1.5.1.1 Special Status Species

Literature research, habitat assessments, and biological surveys determined that the Project area was potentially suitable for the following special-status species: burrowing owl (*Athene cunicularia*), song sparrow “Modesto population” (*Melospiza melodia pop. 1*), Swainson’s hawk (*Buteo swainsoni*), tricolored blackbird (*Agelaius tricolor*), White-tailed kite (*Elanus leucurus*), yellow-headed blackbird (*Xanthocephalus xanthocephalus*), giant garter snake ([GGS]; *Thamnophis gigas*), northwestern pond turtle ([NWPT] *Actinemys marmorata*), alkali-sink goldfields (*Lasthenia chrysantha*), Boggs Lake hedge-hyssop (*Gratiola heterosepala*), dwarf downingia (*Downingia pusilla*), legenere (*Legenere limosa*), Sanford’s arrowhead (*Sagittaria sanfordii*), and woolly rose-mallow (*Hibiscus lasiocarpus var. occidentalis*).

Furthermore, the aquatic habitat present in the Project area provides suitable habitat for the following special status: song sparrow, tricolored blackbird, yellow-headed blackbird, NWPT, GGS, alkali-sink goldfields, Boggs Lake hedge-hyssop, legenere, Sanford’s arrowhead, and woolly rose-mallow.

3.1.5.1.2 Stream/Riparian Habitats

The BSA contains approximately 2,300 linear feet (~5.19 acres) of Laguna Creek (**Figure 4. Vegetation Communities**). This segment of Laguna Creek within the BSA is bordered by annual grasslands, emergent wetlands, and disturbed/urban habitat communities and flows east to west underneath the bridge along SR 99. Vegetation within Laguna Creek is dominated by swamp smartweed. Emergent vegetation along the creek banks within the BSA is dominated by soft rush, tall flatsedge, tule and spike rush.

The BSA contains approximately 500 linear feet (~0.59 acres) of Whitehouse Creek (**Figure 4. Vegetation Communities**). This segment of Whitehouse Creek within the BSA is bordered by annual grasslands, seasonal wetlands, and seasonal wetland swale communities and flows

from south to north on the eastern side of the BSA. Vegetation within Whitehouse Creek is dominated by swamp smartweed. Emergent vegetation along the creek banks within the BSA is dominated by soft rush, tall flatsedge, tule, and spike rush.


3.1.5.1.3 Wetlands

Jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018 (and verified in 2023), to identify jurisdictional resources present within the BSA. Wetland delineations were conducted in accordance with technical methods outlined in the *Corps of Engineers Wetlands Delineation Manual* (USACE, 1987), *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE, 2008), and *A Field Guide to the Identification of the OHWM in the Arid West Region of the Western United States* (Lichvar, 2008). During these survey efforts two emergent wetlands, two seasonal wetlands, and two seasonal wetland swales were identified within the BSA (**Figure 4. Vegetation Communities**).

Within the BSA, Laguna and Whitehouse Creeks are bordered by emergent wetland habitat. In addition to emergent wetland habitat, Whitehouse Creek is also bordered by seasonal wetland and seasonal wetland swale habitat.

3.1.5.1.4 Fish Passage

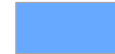
Levee barriers from the Sacramento River to Laguna Creek prevent passage of any fish species.

 Biological Study Area (35.87 acres)


Vegetation Communities

 Disturbed/Urban (17.37 acres)

 Annual Grassland (10.17 acres)

 Perennial Creek (5.78 acres)

 Emergent Wetland (2.36 acres)

 Seasonal Wetland (0.05 acre)

 Seasonal Wetland Swale (0.14 acres)

V:\3040 Laguna Creek Trail Crossing\Water\F4_VegComm.mxd

Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd



0 200 400 600 800 1,000 Feet

FIGURE 4
Vegetation Communities

CML-5479(072)

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

3.2 Water Quality Objectives/Standards and Beneficial Uses

3.2.1 Surface Waters

Water quality is most affected by land development, agriculture, grazing, and urban runoff. Constituents found in urban runoff vary during a storm event, from event to event within a given area, and from area to area within a given watershed. Variances can be the result of differences in rainfall intensity and occurrence, geographic features, and the land use of the area, as well as vehicle traffic and the percentage of impervious surface. Furthermore, sediment runoff from construction sites without adequate erosion control measures can contribute sediments, pesticides, fertilizers, and other pollutants to receiving waters.

As required by the Porter-Cologne Act, the Central Valley RWQCB has developed water quality objectives for waters within their jurisdiction to protect the beneficial uses of those waters and published them in their Basin Plan. The Basin Plan also establishes implementation programs to achieve these water quality objectives and requires monitoring to evaluate the effectiveness of these programs. Water quality objectives must comply with the state antidegradation policy (State Water Board Resolution No. 68-16), which generally restricts the reduction of water quality of surface or ground waters even though such a reduction in water quality might still allow the protection of the beneficial uses associated with the water prior to the quality reduction. The Central Valley RWQCB intends to maintain this quality with enforcement of the water quality objectives summarized in **Table 2** (Central Valley RWQCB, 2019).

Table 2. Central Valley RWQCB Water Quality Objectives for Inland Surface Waters

Constituent	Water Quality Objective
Bacteria	In waters designated REC-1, the fecal coliform concentration based on a minimum of not less than five samples for any 30-day period shall not exceed a geometric mean of 200/100 mL, nor shall more than 10 percent of the total number of samples taken during any 30-day period exceed 400/100 mL.
Biostimulatory Substances	Water shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses.
Chemical Constituents	Waters shall not contain chemical constituents in concentrations that adversely affect beneficial uses. At a minimum, water designated MUN shall not contain concentrations of chemical constituents in excess of the maximum contaminant levels specified in the following provisions of Title 22 of the California Code of Regulations, which are incorporated by reference into this plan: Tables 64431-A (Inorganic Chemicals) and 64431-B (Fluoride) of Section 64431, Table 64444-A (Organic Chemicals) of Section (Fluoride) of Section 64431, Table 64444-A (Organic Chemicals) of Section Consumer Acceptance Limits) and 64449-B (Secondary Maximum Contaminant Levels-Ranges) of Section 64449. At a minimum, water designated for use as domestic or municipal supply (MUN) shall not contain lead in excess of 0.015 mg/l. (See below for specific chemical constituent objectives for specific water bodies.
<i>Cryptosporidium</i> and <i>Giardia</i>	Waters shall not <i>contain Cryptosporidium</i> and <i>Giardia</i> in concentrations that adversely affect the public water system component ¹ of the MUN beneficial use. This narrative water quality objective for <i>Cryptosporidium</i> and <i>Giardia</i> shall be applied within the Sacramento-San Joaquin Delta and its tributaries below the first major dams and should be implemented as specified in Chapter

Constituent	Water Quality Objective
	<p>4 of the Basin Plan. Compliance with this objective will be assessed at existing and new public water system intakes.</p> <p>¹ Public water system as defined in Health and Safety Code, section 116275, subdivision (h)</p>
Color	Water shall be free of discoloration that causes nuisance or adversely affects beneficial uses.
Dissolved Oxygen	<p>For surface water bodies outside the legal boundaries of the Delta, the monthly median of the mean daily dissolved oxygen concentration shall not fall below 85 percent of saturation in the main water mass, and the 95 percentile concentration shall not fall below 75 percent of saturation. The dissolved oxygen concentrations shall not be reduced below the following minimum levels at any time:</p> <ul style="list-style-type: none"> • Waters designated WARM 5.0 mg/l • Waters designated COLD 7.0 mg/l • Waters designated SPWN 7.0 mg/l
Floating Material	Water shall not contain floating material in amounts that cause nuisance or adversely affect beneficial uses.
Oil and Grease	Waters shall not contain oils, greases, waxes, or other materials in concentrations that cause nuisance, result in a visible film or coating on the surface of the water or on objects in the water, or otherwise adversely affect beneficial uses.
pH	The pH shall not be depressed below 6.5 nor raised above 8.5.
Pesticides	<ul style="list-style-type: none"> • No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. • Discharges shall not result in pesticide concentrations in bottom sediments or aquatic life that adversely affect beneficial uses. • Total identifiable persistent chlorinated hydrocarbon pesticides shall not be present in the water column at concentrations detectable within the accuracy of analytical methods approved by the Environmental Protection Agency or the Executive Officer. • Pesticide concentrations shall not exceed those allowable by applicable antidegradation policies (see State Water Resources Control Board Resolution No. 68-16 and 40 CFR Section 131.12.). • Pesticide concentrations shall not exceed the lowest levels technically and economically achievable. • Waters designated for use as domestic or municipal supply (MUN) shall not contain concentrations of pesticides in excess of the Maximum Contaminant Levels set forth in California CFR, Title 22, Division 4, Chapter 15. • Waters designated for use as domestic or municipal supply (MUN) shall not contain concentrations of thiobencarb in excess of 1.0 µg/l. <p>For the purposes of this objective, the term pesticide shall include: (1) any substance, or mixture of substances which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling, or mitigating any pest, which may infest or be detrimental to vegetation, man, animals, or households, or be present in any agricultural or nonagricultural environment whatsoever, or (2) any spray adjuvant, or (3) any breakdown products of these materials that threaten beneficial uses. Note that discharges of "inert" ingredients included in pesticide formulations must comply with all applicable water quality objectives.</p>

Constituent	Water Quality Objective
Radioactivity	Radionuclides shall not be present in concentrations that are deleterious to human, plant, animal, or aquatic life, nor which result in the accumulation of radionuclides in the food web to an extent that presents a hazard to human, plant, animal, or aquatic life. At a minimum, waters designated MUN shall not contain concentrations of radionuclides in excess of the maximum contaminant levels specified in Table 4 (MCL Radioactivity) of Section 64443 of Title 22, California Code of Regulations.
Salinity	Electrical Conductivity (at 25°C) shall not exceed 150 micromhos/cm (90 percentile) in well-mixed waters of the Feather River.
Sediment	The suspended sediment load and suspended sediment discharge rate of waters shall not be altered in such a manner as to cause nuisance or adversely affect beneficial uses.
Settleable Material	Waters shall not contain substances in concentrations that result in the deposition of material that causes nuisance or adversely affects beneficial uses.
Suspended Material	Waters shall not contain suspended material in concentrations that cause nuisance or adversely affect beneficial uses.
Tastes and Odors	Waters shall not contain taste- or odor-producing substances in concentrations that cause nuisance, adversely affect beneficial uses, or impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin or to domestic or municipal water supplies.
Temperature	Elevated temperature wastes shall not cause the temperature of waters designated COLD or WARM to increase by more than 5 degrees Fahrenheit above natural receiving water temperature. In determining compliance with the above limits, the Central Valley Regional Water Quality Control Board may prescribe appropriate averaging periods provided that beneficial uses will be fully protected.
Toxicity	All waters shall be maintained free of toxic substances in concentrations that produce detrimental physiological responses in human, plant, animal, or aquatic life. This objective applies regardless of whether the toxicity is caused by a single substance or the interactive effect of multiple substances. Compliance with this objective will be determined by analyses of indicator organisms, species diversity, population density, growth anomalies, biotoxicity tests of appropriate duration, or other methods as specified by the Central Valley Regional Water Quality Control Board.
Turbidity	<p>Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses. Increases in turbidity attributable to controllable water quality factors shall not exceed the following limits:</p> <p>Where natural turbidity is less than 1 Nephelometric Turbidity Unit (NTU), controllable factors shall not cause downstream turbidity to exceed 2</p> <p>Where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU.</p> <ul style="list-style-type: none"> • Where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent. • Where natural turbidity is equal to or between 50 and 100 NTUs, increases shall not exceed 10 NTUs. • Where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent. <p>In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected.</p>
Source: Central Valley RWQCB, 2019	

Under the Porter-Cologne Water Quality Control Act, the RWQCB is required to consider beneficial uses when instituting water quality objectives and described these beneficial uses as follows:

"Beneficial uses of the waters of the State that may be protected against quality degradation include, but are not necessarily limited to, domestic, municipal, agricultural, and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves."

The RWQCB defines beneficial uses into two categories: consumptive uses corresponding to reduction and/or depletion of water supply and non-consumptive uses not associated with significantly depleting water supplies. The RWQCB assigns beneficial uses for tributary streams based on the uses assigned to the named waterbody that the tributary connects with.

The surface waterbody listed in the Basin Plan that covers Laguna Creek and Whitehouse Creek is "Other Lakes and Reservoirs in Sacramento R. Basin 5A (5)". Existing beneficial uses of surface waters within the "Other Lakes and Reservoirs in Sacramento R. Basin 5A (5)" are listed in **Table 3** below:

Table 3. Existing and Potential Beneficial Uses

Beneficial Use	Definition
MUN	Uses of water for community, military, or individual water supply systems including, but not limited to, drinking water supply.
AGR	Uses of water for farming, horticulture, or ranching including, but not limited to, irrigation (including leaching of salts), stock watering, or support of vegetation for range grazing.
IND	Uses of water for industrial activities that depend primarily on water quality.
REC-1	Uses of water for recreational activities involving body contact with water, where ingestion of water is reasonably possible. These uses include, but are not limited to, swimming, wading, water-skiing, skin and scuba diving, surfing, white water activities, fishing, or use of natural hot springs.
REC-2	Uses of water for recreational activities involving proximity to water, but where there is generally no body contact with water, nor any likelihood of ingestion of water. These uses include, but are not limited to, picnicking, sunbathing, hiking, beachcombing, camping, boating, tidepool and marine life study, hunting, sightseeing, or aesthetic enjoyment in conjunction with the above activities.
WARM	Uses of water that support warm water ecosystems including, but not limited to, preservation or enhancement of aquatic habitats, vegetation, fish, or wildlife, including invertebrates.
COLD	Uses of water that support cold water ecosystems including, but not limited to, preservation or enhancement of aquatic habitats, vegetation, fish, or wildlife, including invertebrates
MIGR	Uses of water that support habitats necessary for migration or other temporary activities by aquatic organisms, such as anadromous fish.
WILD	Uses of water that support terrestrial or wetland ecosystems including, but not limited to, preservation and enhancement of terrestrial habitats or wetlands, vegetation, wildlife (e.g., mammals, birds, reptiles, amphibians, invertebrates), or wildlife water and food sources.
Source: Central Valley RWQCB, 2019	

3.2.2 List of Impaired Waters

Section 303(d) of the CWA requires states to identify waters within their borders that are not attaining water quality standards. Laguna Creek within the Project area is 303(d) listed and considerations for TMDLs for Benthic Community Effects, and Toxicity are necessary (Caltrans Water Quality Planning Tool, 2024). Whitehouse Creek is not 303(d) listed. See section 3.1.3.2.3 for more information.

3.2.3 Groundwater

The key groundwater quality objective for the Central Valley RWQCB is minimizing the contaminants reaching any groundwater basin within the region. The goals are to control taste and odors, keep bacteriological, radioactive, chemical contaminants below the regulatory limits, and prohibit discharges of toxic wastes. **Table 4** below summarizes these water quality objectives for the region, as outlined by the Central Valley RWQCB.

Table 4. Central Valley RWQCB Water Quality Objectives for Groundwaters

Constituent	Water Quality Objective
Bacteria	In ground waters used for designated MUN the most probable number of coliform organisms over any seven-day period shall be less than 2.2/100 ml.
Chemical Constituents	Ground waters shall not contain chemical constituents in concentrations that adversely affect beneficial uses. At a minimum, ground waters designated MUN shall not contain concentrations of chemical constituents in excess of the MCLs specified in the following provisions of Title 22 of the California Code of Regulations: Tables 64431-A (Inorganic Chemicals) and 64431-B (Fluoride) of Section 64431, Table 64444-A (Organic Chemicals) of Section 64444, and Tables 64449-A (Secondary MCLs- Consumer Acceptance Limits) and 64449-B (Secondary MCLs-Ranges) of Section 64449. This incorporation-by-reference is prospective, including future changes to the incorporated provisions as the changes take effect. At a minimum, water designated MUN shall not contain lead in excess of 0.015 mg/l. To protect all beneficial uses, the Regional Water Board may apply limits more stringent than MCLs.
Radioactivity	At a minimum, ground waters designated MUN shall not contain concentrations of radionuclides in excess of the MCLs specified in Table 4 (MCL Radioactivity) of Section 64443 of Title 22 of the California Code of Regulations. This incorporation-by reference is prospective, including future changes to the incorporated provisions as the changes take effect.
Tastes and Odors	Ground waters shall not contain taste- or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses
Toxicity	Ground waters shall be maintained free of toxic substances in concentrations that produce detrimental physiological responses in human, plant, animal, or aquatic life associated with designated beneficial use(s). This objective applies regardless of whether the toxicity is caused by a single substance or the interactive effect of multiple substances.
Source: Central Valley RWQCB, 2019	

Beneficial uses of groundwater in the Basin Plan are considered as suitable or potentially suitable, at a minimum, for municipal and domestic water supply (MUN), agricultural supply (AGR), industrial service supply (IND), and industrial process supply (PRO) (Central Valley RWQCB, 2019).

4 ENVIRONMENTAL CONSEQUENCES

4.1 Introduction

Areas within and adjacent to the Project area, including Whitehouse Creek, drain toward Laguna Creek. Directly west of the West Stockton Blvd Bridge, a bypass channel north of the main Laguna Creek channel diverts flows from the creek during high flow events. The proposed Project is anticipated to utilize existing storm drain facilities.

The Project will result in approximately 0.68 acres of new impervious surface, which will increase the volume of storm water runoff. The Project would comply with the provisions of Permit Order No. R5-2016-0040-005 for the local jurisdiction as well as Order No. 2022-0033-DWQ for the areas within Caltrans right of way. The Project will adhere to water quality standards maintained by the SWRCB for the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (NPDES No. CAS000002, SWRCB Order No. 2022-0057-DWQ). A CGP would be obtained prior to construction. Potential impacts would be mitigated through sediment, erosion, and non-storm water control methods that are required for compliance with the CGP.

The Project will implement standard BMPs to avoid and minimize water quality impacts; however, they are not to preclude new or innovative approaches currently available or being developed. The documents required for CGP compliance, including the monitoring log, must be kept on-site during construction activities and will be made available upon request to representatives of the RWQCB.

4.2 Project Features/Standardized Measures

The following standardized measures implemented by the Project to address permit requirements will minimize temporary or permanent water quality impacts created by the Project.

- WQ-1** The project will comply with the provisions of NPDES Permit and WDRs for the State of California, Department of Transportation, Order No. 2022-0033-DWQ, NPDES No. CAS000003 and any subsequent permits in effect at the time of construction.
- WQ-2** The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as NPDES Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small MS4s. Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin.
- WQ-3** The project will comply with the provisions of the NPDES Construction General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities Order No. 2022-0057-DWQ, NPDES No. CAS000002 and any subsequent permits in effect at the time of construction.
- WQ-4** The project will comply with the Construction General Permit by preparing and implementing a SWPPP or WPCP to address all construction-related activities, equipment, and materials that have the potential impact water quality for the

appropriate Risk Level. The SWPPP or WPCP will identify the sources of pollutants that may affect the quality of stormwater and include BMPs to control the pollutants, such as sediment control, catch basin inlet protection, construction materials management and non-stormwater BMPs. All work must conform to the Construction Site BMP requirements specified in the latest edition of the Stormwater Quality Handbooks: Construction Site Best Management Practices Manual to control and minimize the impacts of construction and construction related activities, material and pollutants on the watershed. These include, but are not limited to temporary sediment control, temporary soil stabilization, scheduling, waste management, materials handling, and other non-stormwater BMPs.

WQ-5 Design Pollution Prevention BMPs will be implemented such as preservation of existing vegetation, slope/surface protection systems (permanent soil stabilization), concentrated flow conveyance systems such as ditches, berms, dikes, and swales, over side drains, flared end sections, and outlet protection/velocity dissipation devices.

WQ-6 BMPs will be incorporated into Project construction to minimize impacts on the environment including erosion and the release of pollutants (e.g. oils, fuels):

- Exposed soils and material stockpiles would be stabilized, through watering or other measures, to prevent the movement of dust at the Project site caused by wind and construction;
- Implementation of the Project shall require approval of a site-specific SWPPP or Water Pollution Control Program that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- All construction roadway areas would be properly protected to prevent excess erosion, sedimentation, and water pollution;
- All vehicle and equipment fueling/maintenance would be conducted outside of any surface waters;
- Equipment used in and around jurisdictional waters must be in good working order and free of dripping or leaking contaminants;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering jurisdictional waters;
- All erosion control measures, and storm water control measures would be properly maintained until the site has returned to a pre-construction state;
- All construction materials would be hauled off-site after completion of construction;
- Upon completion of construction activities, any temporary barriers to surface water flow must be removed in a manner that would allow flow to resume with the least disturbance to the substrate.

4.3 Potential Impacts to Water Quality

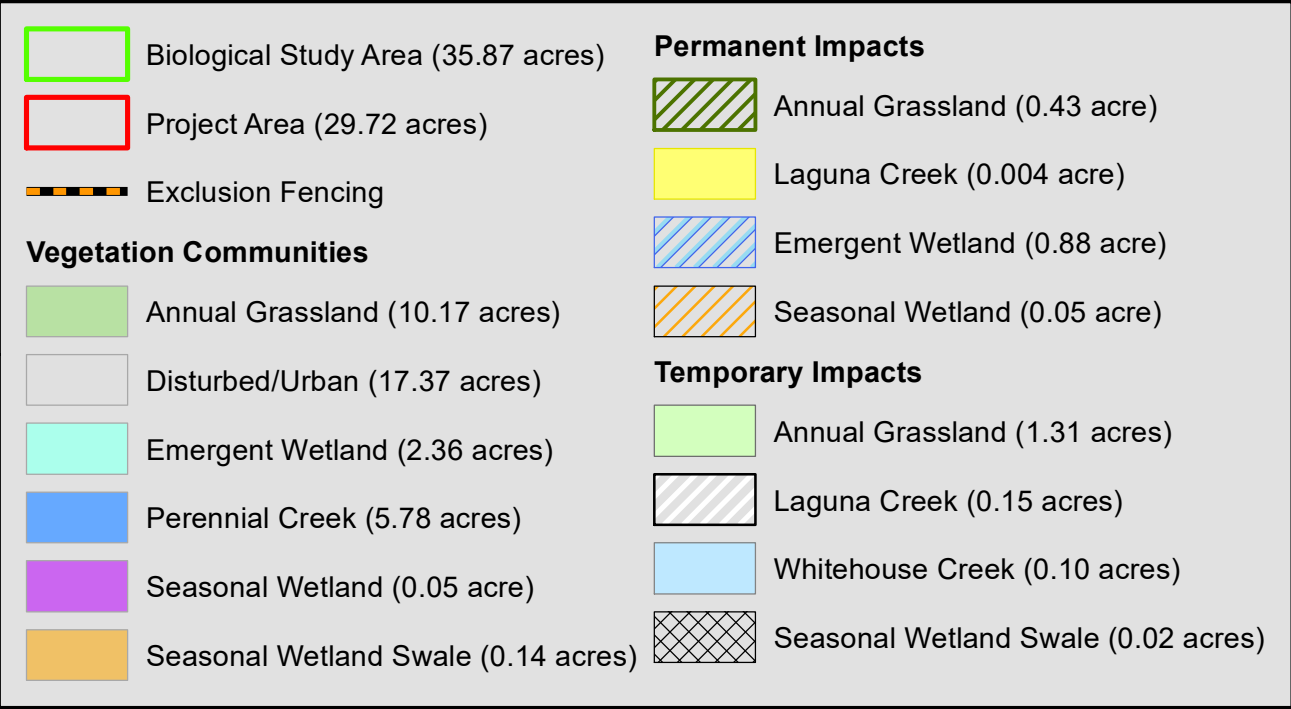
Construction of the Project would add approximately 0.68 acres of new impervious surfaces. This would result in an incremental reduction in the amount of natural soil surfaces available for infiltration of rainfall and runoff, potentially generating additional sediment runoff during storm

events which could degrade the quality of receiving waters. During storm events, sediment is transported via runoff to stormwater drainage systems. Absent controls, contaminated runoff waters could flow into the stormwater drainage systems that discharge into rivers, agricultural ditches, sloughs, and channels and ultimately could degrade the water quality of any of these water bodies.

The Project would permanently impact approximately 0.004 acres of Laguna Creek, 0.88 acres of emergent wetland habitat, and 0.05 acres of seasonal wetland habitat. Permanent impacts to Whitehouse Creek and seasonal wetland swale habitat are not anticipated. Additionally, the Project would temporarily impact approximately 0.15 acres of Laguna Creek, 0.10 acres of Whitehouse Creek, and 0.02 acres of seasonal wetland swale habitat. Temporary impacts to emergent wetland habitat and seasonal wetland habitat are not anticipated. See **Figure 5. Project Impacts** and **Table 5** below for more information. The Project’s compliance with City and State water quality and stormwater BMP’s will ensure the Project avoids and/or minimizes potential water quality impacts to the greatest extent practicable, such as measures **WQ-1** through **WQ-6**.

Table 5. Impacts to Aquatic Habitat within the BSA

Impact Type (acres)	Aquatic Habitat within the BSA				
	Laguna Creek	Whitehouse Creek	Emergent Wetland	Seasonal Wetland	Seasonal Wetland Swale
Temporary	0.15	0.10	0	0	0.02
Permanent	0.004	0	0.88	0.05	0
Total	0.154	0.10	0.88	0.05	0.02



Laguna Creek Bypass Channel

V:\3040 Laguna Creek Trail Crossing\Biology\F5_Protect Impacts.mxd

Source: ESRI Maps Online; Dokken Engineering 8/13/2024; Created By: amyd

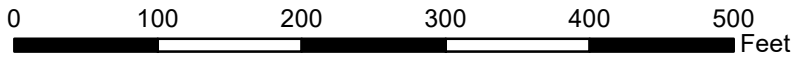


FIGURE 5
Project Impacts

CML-5479(072)
Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project
City of Elk Grove, Sacramento County, California

4.3.1 Anticipated Changes to the Physical/Chemical Characteristics of the Aquatic Environment

4.3.1.1 Substrate

Substrate refers to the structure and composition of a riverbed. Laguna and Whitehouse Creeks contain natural substrate that could be affected by the proposed Project. In-channel work during construction can disturb bottom substrate in Laguna and Whitehouse Creeks, which could remobilize sediments as well as contaminants adsorbed to the sediments. Non-soluble contaminants with a tendency to adsorb to sediments (as opposed to soluble contaminants, which have the tendency to be readily diluted in water) can settle and accumulate in the substrate over time. The resuspension of contaminants found in bottom substrate can remobilize these contaminants and release them into the water column and can degrade water quality. In addition, resuspended particulate material could be transported to other locations in Laguna and Whitehouse Creeks as a result of flow patterns and currents, thus leading to potential degradation of water quality beyond the Project area.

The Project will include all feasible standard construction BMPs. Measures **WQ-1** through **WQ-4**, and **WQ-6** address this. Compliance with the CGP would ensure the Project does not result in significant impacts to water quality due to construction-related activities. Impacts related to substrates disturbed by in-water work would be minimal and would not act as a significant source of pollutants that would cause or contribute to a violation of water quality standards or objectives for Laguna or Whitehouse Creek.

4.3.1.2 Currents, Circulation or Drainage Patterns

Within the Project area, Laguna Creek flows from the east to the west via a meandering path, flowing under East Stockton Blvd, SR 99, and West Stockton Blvd. Areas within and adjacent to the Project area, including Whitehouse Creek, drain toward Laguna Creek. Directly west of the West Stockton Blvd Bridge, a bypass channel north of the main Laguna Creek channel diverts flows from the creek during high flow events. Whitehouse Creek is a tributary, joining Laguna Creek from the north immediately east of the Creekside Christian Church property. Surface water in Laguna Creek persists throughout the growing season in most years. Surface water within Whitehouse Creek is present for extended periods especially early in the growing season but is absent by the end of the growing season in most years. The proposed Project would result in approximately 0.68 acres of new impervious surface. No change in currents, circulation, or drainage patterns are anticipated as a result of the Project as existing storm drain facilities will be utilized.

4.3.1.3 Suspended Particulates (Turbidity)

Turbidity refers to cloudiness of water quantified by the degree to which light traveling through a water column is scattered by the suspended organic and inorganic particles it contains. Turbidity in water bodies blocks light transmission and light penetration, increasing bacteria levels and reducing oxygen levels in the water. Sedimentation can result in increased turbidity. Measures **WQ-1** through **WQ-4**, and **WQ-6** address this. Compliance with the CGP would ensure the Project does not result in significant impacts to water quality due to construction-related activities. Impacts related to suspended particulates causing turbidity would not act as a significant source of pollutants that would cause or contribute to a violation of water quality standards or objectives for Laguna or Whitehouse Creeks.

4.3.1.4 Oil Grease and Chemical Pollutants

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. Runoff generated from increased impervious surfaces due to construction of the Project would primarily consist of sediment from erosion and is not anticipated to contain oil, grease, or chemical pollutants. Further, with the inclusion of **WQ-1** through **WQ-11**, Project impacts to water quality would not be substantial. The Project would also not act as a significant source of oil, grease, and chemical pollutants that would cause or contribute to a violation of water quality standards or objectives for Laguna or Whitehouse Creek.

4.3.1.5 Includes metals and pesticides

The proposed Project would not alter land uses or change drainage patterns in a manner that would cause additional pesticides or metals to enter Laguna and Whitehouse Creek. Further, with the inclusion of **WQ-11**, the Project would also not act as a significant source of metals and pesticides that would cause or contribute to a violation of water quality standards or objectives for Laguna or Whitehouse Creek.

4.3.1.6 Temperature, Oxygen Depletion and Other Parameters

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. Runoff generated from increased impervious surfaces due to construction of the Project would primarily consist of sediment from erosion. With the inclusion of **WQ-1** through **WQ-11**, there is a low potential for the proposed Project to contribute to adverse water quality effects related to temperature, oxygen depletion, and other parameters.

4.3.1.7 Includes litter

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. While there is a potential for an increase in litter due to human use on the trail, litter use would not be exacerbated because of this Project.

4.3.1.8 Flood Control Functions

A Location Hydraulic Study will be prepared and will address flood control function.

4.3.1.9 Storm, Wave and Erosion Buffers

Wetlands serve as buffer zones that shield upland areas from wave actions, storm damage, and erosion. Jurisdictional delineations identified two emergent wetlands, two seasonal wetlands, and two seasonal wetland swales within the BSA. Portions of both seasonal and emergent wetlands will be permanently filled as a result of the multi-use trail. See **Figure 5. Project Impacts** and **Table 5** for impact quantities to seasonal and emergent wetland habitats. The remaining portions of seasonal and emergent wetland habitat would no longer contain the same habitat value or function; and therefore, the entire boundary of seasonal and emergent wetland habitat is considered to be a permanent impact. No direct or indirect impacts to the emergent wetland habitat west of SR 99 are anticipated. Emergent wetland and seasonal wetland impacts associated with the Project will be appropriately mitigated per measures listed in the Natural Environment Study (NES).

Permanent fill will not be placed within seasonal wetland swale habitat. However, the boundary of the swale is within close proximity to the proposed pedestrian bridge over Whitehouse Creek. Therefore, construction access will be required along the outer margin of the seasonal wetland swale, resulting in temporary impacts. See **Table 5** for impact quantities to seasonal wetland swale habitat. The impacts are on the edge of the seasonal wetland swale, and the majority of the aquatic feature will remain intact; therefore, the swale will retain its value and function as wetland habitat upon completion of the Project. Due to the direct surface connection, the seasonal wetland swale located west of Whitehouse Creek will also be temporarily impacted. Thus, temporary impacts to both seasonal wetland swale habitats are anticipated. Potential impacts to the seasonal wetland swale may include changes in hydrology, soils and vegetation due to the filling of the adjacent seasonal wetland.

With incorporation of the measures listed in the NES and **WQ-7**, there would be no adverse impacts to storm, wave, and erosion buffers.

4.3.1.10 Erosion and Accretion Patterns

Construction activities would disturb soils, exposing soil to the potential for erosion. In compliance with the CGP, the Project will implement construction BMPs, including, but not limited to, erosion control and sediment control BMPs that are designed to minimize erosion and retain sediment on site. With implementation of measures **WQ-1** through **WQ-7**, there is a low potential for the proposed Project to impact erosion and accretion patterns.

4.3.1.11 Aquifer Recharge/Groundwater

Construction of the proposed Project will add approximately 0.68 acres of impervious surface. Thus, impacts to groundwater recharge are anticipated due to the prevention of surface waters from percolating into the soil. However, in comparison with the total surface area of 351,000 acres of the North American Sub basin within the Sacramento Valley Groundwater Basin, this impact is considered minimal and negligible for the Project.

4.3.1.12 Baseflow

Baseflow is the streamflow resulting from precipitation that infiltrates the soil and eventually moves through the soil to the stream channel. The Project would result in increases in impervious surface area; however, the added impervious areas as a result of the new multi-use trail and pedestrian bridge and overcrossing and would be slight when considering the entire watershed area. The proposed Project would not substantially decrease infiltration and would not affect baseflow as the Project would result in a minimal increase in impervious are and the soils in the area have a high capacity for infiltration.

4.3.2 Anticipated Changes to the Biological Characteristics of the Aquatic Environment

4.3.2.1 Special Aquatic Sites

Special aquatic sites include wetlands, sanctuaries, refuges, mudflats, vegetated shallows, coral reefs and riffle and pool complexes. Jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24 – April 26, 2018, with a field recheck in 2023, to identify jurisdictional resources present within the BSA. During these

survey efforts, two emergent wetlands, two seasonal wetlands, and two seasonal wetland swales were identified within the BSA. These survey efforts did not identify any other special aquatic sites within or adjacent to the BSA.

Both seasonal and emergent wetlands will be permanently filled as a result of the multi-use path. See **Table 5** for impact quantities to seasonal and emergent wetland habitats. Seasonal and emergent wetlands will also be impacted as a result of construction access, which may include clearing/grubbing, soil compaction, and disturbance of topsoil. Ultimately, the locations and types of impacts to the seasonal and emergent wetlands would permanently alter the hydrology, soils, and vegetation that support a wetland community. The remaining portions of seasonal and emergent wetland habitat would no longer contain the same habitat value or function; and therefore, the entire boundary of seasonal and emergent wetland habitat is considered to be a permanent impact (**Figure 5. Project Impacts**). Loss of habitat will occur for species that may use the wetland for survival or reproduction. Furthermore, wetland loss can add stress to the remaining wetlands, decrease local landscape diversity and decrease connectivity among aquatic resources (U.S. EPA, 2024). No permanent or temporary impacts to the emergent wetland west of SR 99 are anticipated. Seasonal and emergent wetland impacts associated with the Project will be appropriately mitigated per measures listed in the NES.

Permanent fill will not be placed within seasonal wetland swale habitat. However, the boundary of the swale is within close proximity to the proposed pedestrian bridge over Whitehouse Creek. Therefore, construction access will be required along the outer margin of the seasonal wetland swale resulting in temporary impacts (**Figure 5. Project Impacts**). See **Table 5** for impact quantities to seasonal wetland swale habitat. The impacts are on the edge of the seasonal wetland swale, and the majority of the aquatic feature will remain intact; and therefore, will retain its value and function as wetland habitat upon completion of the Project. Due to the direct surface connection, the seasonal wetland swale located west of Whitehouse Creek will also be temporarily impacted. Thus, temporary impacts to both seasonal wetland swale habitats are anticipated. Potential impacts to the seasonal wetland swale may include changes in hydrology, soils and vegetation due to the filling of the adjacent seasonal wetland.

With incorporation of the measures listed in the NES, impacts to special aquatic sites will be minimized.

4.3.2.2 Habitat for Fish and Other Aquatic Organisms

Aquatic habitat in the Project area include Laguna and Whitehouse Creek, emergent wetland, seasonal wetland, and seasonal wetland swale. The aquatic habitat present in the Project area provides suitable habitat for the following special status aquatic or semi aquatic animal species: NWPT and GGS.

NWPT

The Project is anticipated to permanently impact approximately 0.93 acres of aquatic habitat (emergent wetland, seasonal wetland, seasonal wetland swale, and Laguna Creek) for NWPT. Additionally, the Project is anticipated to temporarily impact approximately 0.27 acres of aquatic habitat (seasonal wetland swale, Laguna Creek and Whitehouse Creek) for NWPT. Temporary impacts within aquatic habitat would include installation of a temporary water diversion or dewatering system and clearing/grubbing of aquatic vegetation to allow access for construction

personnel and equipment. Temporary impacts within wetland habitats may include construction access for personnel and equipment, clearing and grubbing, as well as grading and compaction.

GGS

The Project would temporarily impact approximately 0.27 acres of GGS aquatic habitat. Temporary impacts will include but are not limited to, clearing and grubbing, equipment access, grading, compaction, de-watering, and temporary water diversion and staging. The Project would also permanently impact approximately 0.93 acres of GGS aquatic habitat. Permanent impacts will occur due to the placement of fill required to construct the new trail and associated overcrossing. Impacts to NWPT and GGS will be minimized through implementation of measures listed in the NES.

4.3.2.2.1 Fish Passage (Beneficial Uses)

Levee barriers from the Sacramento River to Laguna Creek prevent passage of any fish species. The Project would not impact fish passage.

4.3.2.3 Wildlife Habitat

Vegetation communities within the BSA include disturbed/urban, annual grassland, perennial creek, emergent wetland, seasonal wetland, and seasonal wetland swale habitats (**Figure 4. Vegetation Communities**). These habitats support a variety of wildlife species. As shown in **Table 5**, temporary and permanent impacts to these habitats are anticipated. However, impacts to wildlife habitat would be reduced through the avoidance and minimization measures listed in the NES.

4.3.2.3.1 Wildlife Passage (Beneficial Uses)

The CDFW Biogeographic Information & Observation System was reviewed to determine if the BSA is located within an Essential Connectivity Area. The BSA is within an area of Terrestrial Connectivity Rank 1 – Limited Connectivity Opportunity. These are areas where land use may limit options for providing connectivity (e.g., agriculture, urban) or no connectivity importance has been identified in models. Implementation of this Project will not permanently fragment any existing natural habitats in such a way that would prohibit wildlife movement, and therefore will not impact any existing habitat connectivity networks.

4.3.2.4 Endangered or Threatened Species

Literature research, habitat assessments, and biological surveys determined that one federally threatened species, GGS, has the potential to occur within the Project area. Additionally, NWPT has the potential to occur within the Project area, which is proposed to be listed as federally threatened. Informal Section 7 consultation will be initiated with the U.S. Fish and Wildlife Service (USFWS) for impacts to GGS. Given that NWPT is proposed to be listed under the Federal Endangered Species Act, Section 7 consultation will be required with USFWS if the species is officially listed prior to construction. Impacts to NWPT and GGS will be minimized through Section 7 consultation and implementation of measures listed in the NES.

In addition, three threatened state species were determined to have the potential to occur within the Project area: Swainson's hawk, GGS, and tricolored blackbird. With the inclusion of avoidance and minimization measures listed in the NES, no direct impacts to GGS, Swainson's hawk, or tricolored blackbird are anticipated. The Project is not anticipated to have take of these species; therefore, no CDFW Section 2081 Incidental Take Permit is required.

4.3.2.5 Invasive Species

Project construction has the potential to introduce invasive, exotic, non-native vegetation, some of which may not now exist in the area, and can provide a pathway for dispersal of invasive plants. With implementation of **WQ-10**, the spread of invasive species will be minimized.

4.3.3 Anticipated Changes to the Human Use Characteristics of the Aquatic Environment

4.3.3.1 Existing and Potential Water Supplies; Water Conservation

No water intakes are located within the Project area. Stream flows would be bypassed around the work site to ensure continuous flow within Laguna and Whitehouse Creek during construction. The proposed Project would not cause any changes that would affect water supplies or conservation.

4.3.3.2 Recreational or Commercial Fisheries

Recreational/commercial fisheries are not uses of the aquatic features in the Project area, therefore, there will be no changes as a result of the Project.

4.3.3.3 Other Water Related Recreation

Construction activities would temporarily preclude water related recreation in the immediate vicinity of the Project area; however, adequate recreational opportunities would remain available in the Project vicinity.

4.3.3.4 Aesthetics of the Aquatic Ecosystem

Given the avoidance and minimization measures that will be implemented during construction of this Project and the existing conditions of the waterways present, aesthetics of the aquatic environment will not be negatively impacted as a result of the Project.

4.3.3.5 Parks, National and Historic Monuments, National Seashores, Wild and Scenic Rivers, Wilderness Areas, etc.

There are no parks, national and historic monuments, national seashores, wild and scenic rivers, wilderness areas, etc. in the Project area.

4.3.3.6 Traffic/Transportation Patterns

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. During construction of the pedestrian overcrossing over SR 99, temporary lane shifts will be required to allow for foundation construction and placement of the falsework bents for super structure construction. However, the existing number of through lanes on SR 99 and the local roads will be maintained throughout construction. Transportation/traffic will not be negatively impacted.

4.3.3.7 Energy Consumption of Generation

The waters in the Project area are not used for energy generation. Therefore, there is no potential for the proposed Project to have an impact on energy consumption or energy generation.

4.3.3.8 Navigation

Laguna and Whitehouse Creek are not used for navigation. The proposed Project would have no impact on navigation.

4.3.3.9 Safety

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. By closing a critical gap in the LCIRT, the proposed Project would allow greater connectivity of the trail system and increase safer travel opportunities to various destinations and amenities throughout the City. Additionally, as mentioned in section 4.3.3.6, the existing number of through lanes on SR 99 and the local roads will be maintained throughout construction. The proposed Project would have no impact on safety.

4.3.4 Temporary Impacts to Water Quality

Construction activities associated with the Project would include disturbances to the ground surface from earthwork, grading, excavation for foundations and vegetation removal would be required, which would increase the potential for slope erosion. These activities could potentially increase the amount of sediments entering Laguna and Whitehouse Creek. Runoff during the winter season is of greater concern due to the potential erosion of unprotected or graded surfaces during rain events. Sediments could potentially harm aquatic resources and water quality. Potential short-term impacts would be avoided and minimized through measures **WQ-3**, **WQ-4**, and **WQ-6** through **WQ-11**; exposed soils would be stabilized and construction areas would be protected to prevent items from entering the waterway.

4.3.4.1 No Build Alternative

As part of the No-Build Alternative, the SR 99 pedestrian overcrossing, pedestrian bridge over Whitehouse Creek, and the multi-use trail would not be built. The City's LCIRT would not be completed, and SR 99 would remain a barrier for users of the LCIRT. This would not temporarily impact water quality.

4.3.5 Long-term Impacts During Operation and Maintenance

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. Runoff generated from increased impervious surfaces due to construction of the Project would primarily consist of sediment from erosion and is not anticipated to contain oil, grease, or chemical pollutants. Through the development and implementation of BMPs and avoidance and minimization measures (including **WQ-5**), the proposed Project is not anticipated to result in long-term effects due to operation and maintenance.

4.3.5.1 No Build Alternative

As part of the No-Build Alternative, the SR 99 pedestrian overcrossing, pedestrian bridge over Whitehouse Creek, and the multi-use trail would not be built. The City's LCIRT would not be completed, and SR 99 would remain a barrier for users of the LCIRT. This would not result in long-term impacts to water quality.

4.4 Impact Assessment Methodology

The purpose of this WQAR is to analyze the difference between the existing condition and the Project build condition with respect to water quality impacts. The assessment takes the following into consideration:

- Pollutant sources (change in land use)
- Impervious area and relation to amount of runoff (increase or decrease)
- Application of BMPs (number of BMPs, new technologies, effectiveness)
- Discharges into impaired waters (listed pursuant to §303[d] of the CWA)

4.5 Cumulative Impacts

The proposed Project would construct a multi-use trail that would be used as part of the LCIRT, a pedestrian overcrossing over SR 99, and a pedestrian bridge over Whitehouse Creek. The proposed Project is consistent with the City of Elk Grove General Plan and the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan. The Project is listed in the City's Bicycle, Pedestrian, and Trails Master Plan, which expresses the City's desire to have a comprehensive off-street multi-use trail system that provides connectivity throughout the City and the wider Sacramento region. The proposed Project would complete a portion of the off-street LCIRT and would connect the east and west trail networks on either side of SR 99, improving bicycle and pedestrian access in the City. The Project would not promote future development in the watershed, as the area is already highly developed. Construction of the proposed Project, which would create approximately 0.68 acres of impervious surface, along with other construction within the watershed would contribute to cumulative impacts associated with the addition of impervious surface. However, the proposed Project's contribution would be minimal considering the highly developed land uses in the area.

5 AVOIDANCE, MINIMIZATION, AND/OR MITIGATION MEASURES

- WQ-7** Prior to the start of construction activities, the Project limits within environmentally sensitive areas (Laguna Creek, Whitehouse Creek, annual grasslands, emergent wetlands, seasonal wetland, and seasonal wetland swale), will be marked with temporary high visibility fencing or staking to ensure construction will not further encroach into sensitive resources. (same as BIO-2, Natural Environment Study)
- WQ-8** Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must remain outside of jurisdictional waters. Any necessary equipment washing must occur where the water cannot flow into water bodies. (same as BIO-5, Natural Environment Study)
- WQ-9** A chemical spill kit must be kept onsite and available for use in the event of a spill. (same as BIO-6, Natural Environment Study)
- WQ-10** Prior to arrival at the Project site and prior to leaving the Project site, construction equipment that may contain invasive plants and/or seeds will be cleaned to reduce the spreading of noxious weeds. (same as BIO-26, Natural Environment Study)
- WQ-11** The contractor must not apply rodenticide or herbicide within the Project area. (same as BIO-28, Natural Environment Study).

6 REFERENCES

6.1 Works Cited

- California State Water Resources Control Board. "Water Quality Order WQO No. 2022-0033—DWQ Attachment." Available at: <https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo2022-0033-dwq_att.pdf> (accessed 7/8/2024)
- California State Water Resources Control Board. 2020. Impaired Water Bodies – 2010 Integrated Report (Clean Water Act 303(d) List/305(b) report) - Statewide. Available at: <http://www.waterboards.ca.gov/water_issues/programs/tmdl/2010state_ir_reports/category5_report.shtml> (accessed 7/8/2024).
- California Department of Transportation. 2024. Water Quality Planning Tool. Available at: <<https://svctenvims.dot.ca.gov/wqpt/wqpt.aspx>> (accessed 7/8/2024)
- California's Areas of Special Biological Significance. 2017. State Water Resources Control Board. Available at: <https://www.waterboards.ca.gov/water_issues/programs/ocean/asbs_map.shtml> (accessed 7/8/2024)
- Central Valley Regional Water Quality Control Board. 2019. Basin Plan for the California Regional Water Quality Control Board Central Valley Region. Available at: <https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_201902.pdf> (accessed 7/8/2024)
- Central Valley Regional Water Quality Control Board. 2016. Notice Of Applicability; General Permit for Discharges From Municipal Separate Storm Sewer Systems, Order R5-2016-0040. Available at: <https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0040/r5-2016-0040-004-010_amend.pdf> accessed 7/8/2024)
- City of Elk Grove. 2023. General Plan. Available at: <<https://www.elkgrovecity.org/general-plan/general-plan-documents#generalPlan>> (accessed 7/8/2024)
- City of Elk Grove. 2018. General Plan Update Draft Environmental Impact Report. Available at: <<https://www.elkgrovecity.org/general-plan/general-plan-documents#generalPlan>>
- City of Sacramento. 2018. Stormwater Quality Design Manual. Available at: <https://www.cityofsacramento.gov/content/dam/portal/dou/utilities/development-standards/SWQ_Design_Manual_FINAL2018.pdf> (accessed 7/8/2024)
- Lichvar, R.W. & McColley, S.M. 2008. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. United States Army Engineer Research and Development Center, Hanover, New Hampshire.
- USACE. 1987. Corps of Engineers Wetlands Delineation Manual. Environmental Laboratory, Vicksburg, Mississippi.
- USACE. 2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). United States Army Engineer Research and Development Center, Vicksburg, Mississippi.

U.S. Census Bureau. City of Elk Grove, California. 2023. Available at: <
<https://www.census.gov/quickfacts/fact/table/elkgrovecitycalifornia,US/PST045222>>
(accessed 7/8/2024)

U.S. Climate Data. 2024. Available at: < <https://www.usclimatedata.com>> (accessed 7/8/2024)

U.S. EPA 2024. Report on the Environment – Wetlands. Available at:
<<https://www.epa.gov/report-environment/wetlands>> (accessed 7/8/2024).

6.2 Preparer(s) Qualifications

Aliana Hale, B.S. in Environmental Geoscience, four years of experience in environmental analysis

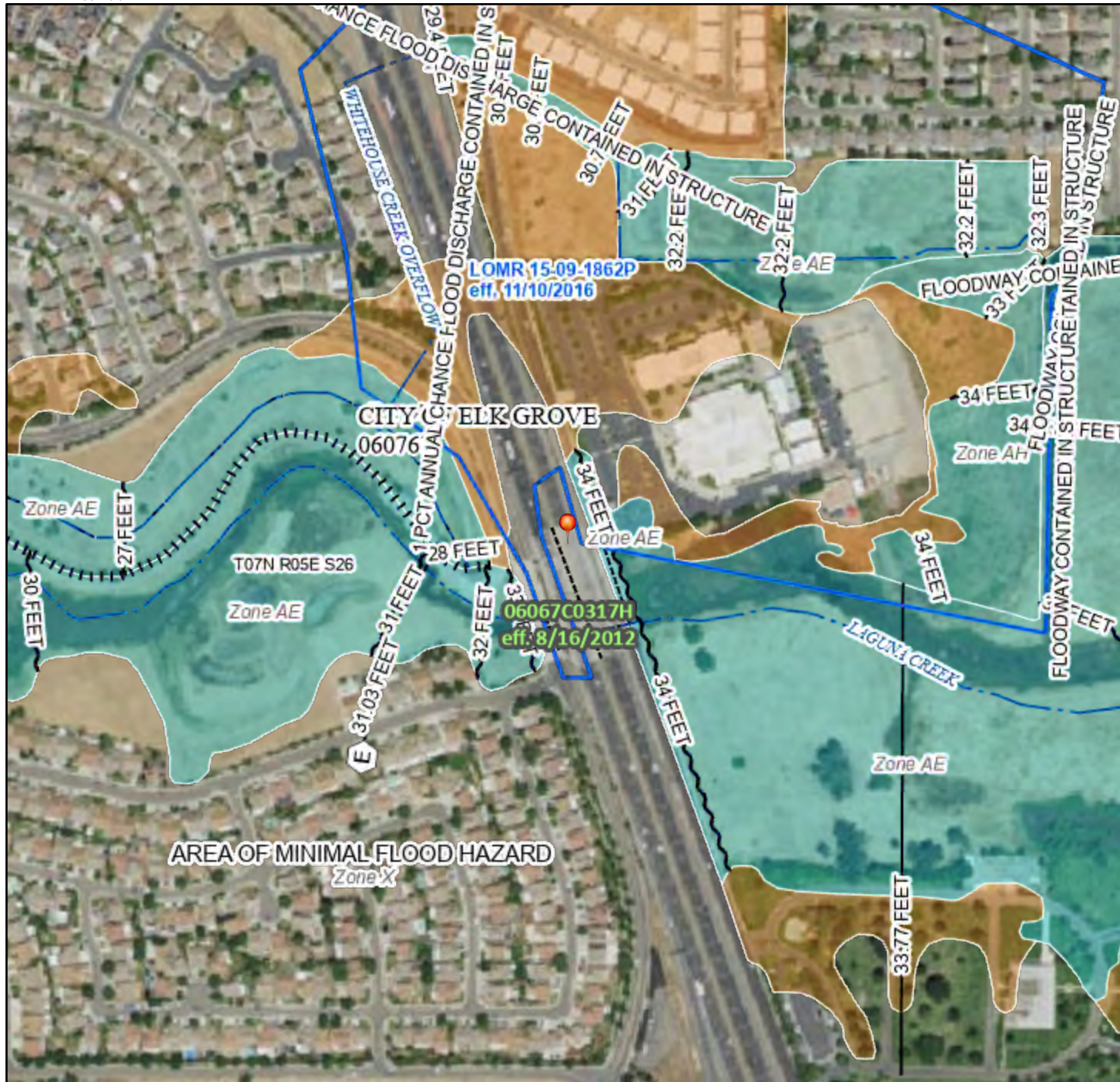
Amy Dunay, B.A. in Classics and M.A., in Archaeology, 20 years of experience in environmental analysis

Appendix A

National Flood Hazard Layer FIRMMette



121°24'14"W 38°26'6"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

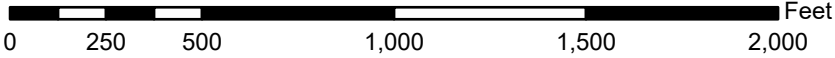
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



1:6,000

121°23'37"W 38°25'38"N

Basemap Imagery Source: USGS National Map 2023

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **7/19/2024 at 1:55 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix B



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Sacramento County, California**

Laguna Creek Inter-Regional Trail Crossing at State Route 99 Project



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

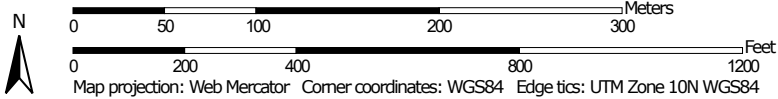
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:4,130 if printed on A landscape (11" x 8.5") sheet.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
 Survey Area Data: Version 23, Aug 31, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
111	Bruella sandy loam, 0 to 2 percent slopes	6.2	21.0%
174	Madera loam, 0 to 2 percent slopes	8.4	28.4%
213	San Joaquin silt loam, leveled, 0 to 1 percent slopes	0.5	1.8%
214	San Joaquin silt loam, 0 to 3 percent slopes	14.5	48.9%
Totals for Area of Interest		29.7	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

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The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Sacramento County, California

111—Bruella sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhlk
Elevation: 30 to 150 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Bruella and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bruella

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 18 inches: sandy loam
H2 - 18 to 42 inches: sandy clay loam
H3 - 42 to 61 inches: sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: C
Ecological site: R017XY904CA - Subirrigated Deep Alluvial Fans
Hydric soil rating: No

Minor Components

Kimball

Percent of map unit: 5 percent
Hydric soil rating: No

San joaquin

Percent of map unit: 5 percent
Hydric soil rating: No

Xerarents

Percent of map unit: 5 percent
Hydric soil rating: No

174—Madera loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhn1
Elevation: 20 to 250 feet
Mean annual precipitation: 14 inches
Mean annual air temperature: 61 degrees F
Frost-free period: 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Madera and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Madera

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 15 inches: loam
H2 - 15 to 29 inches: clay
H3 - 29 to 60 inches: indurated

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches; 29 to 60 inches to duripan
Drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

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Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 4s

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: D

Ecological site: R017XD047CA - LOAMY CLAYPAN

Hydric soil rating: No

Minor Components

Kimball

Percent of map unit: 5 percent

Hydric soil rating: No

Clear lake

Percent of map unit: 4 percent

Landform: Drainageways

Hydric soil rating: Yes

Galt

Percent of map unit: 4 percent

Landform: Terraces

Hydric soil rating: Yes

Unnamed, rarely flooded

Percent of map unit: 2 percent

Hydric soil rating: No

213—San Joaquin silt loam, leveled, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hhpv

Elevation: 20 to 500 feet

Mean annual precipitation: 10 to 22 inches

Mean annual air temperature: 61 to 63 degrees F

Frost-free period: 250 to 300 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

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Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam
H2 - 23 to 28 inches: clay loam
H3 - 28 to 54 inches: indurated
H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches; 28 to 54 inches to duripan
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: C
Ecological site: R017XY902CA - Duripan Vernal Pools
Hydric soil rating: No

Minor Components

Bruella

Percent of map unit: 3 percent
Hydric soil rating: No

Durixeralfs

Percent of map unit: 3 percent
Hydric soil rating: No

Galt

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

Hedge

Percent of map unit: 2 percent
Hydric soil rating: No

Kimball

Percent of map unit: 2 percent
Hydric soil rating: No

Xerarents

Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed, rarely flooded

Percent of map unit: 1 percent
Hydric soil rating: No

214—San Joaquin silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: hhpw

Elevation: 20 to 500 feet

Mean annual precipitation: 10 to 22 inches

Mean annual air temperature: 61 to 63 degrees F

Frost-free period: 250 to 300 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam

H2 - 23 to 28 inches: clay loam

H3 - 28 to 54 inches: indurated

H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches; 28 to 54 inches to duripan

Drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Ecological site: R017XD045CA - LOAMY

Hydric soil rating: No

Minor Components

Galt

Percent of map unit: 4 percent

Landform: Depressions

Hydric soil rating: Yes

Bruella

Percent of map unit: 4 percent

Hydric soil rating: No

Hedge

Percent of map unit: 3 percent

Hydric soil rating: No

Kimball

Percent of map unit: 3 percent

Hydric soil rating: No

Unnamed, rarely flooded

Percent of map unit: 1 percent

Hydric soil rating: No

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

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United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf