# City of Escondido Channel Maintenance Activities

# Final Supplemental Mitigated Negative Declaration

Case No. ENV 20-0004 State Clearinghouse No. 2012121063 (Previous Case File No. ENV 12-0001)

Prepared for:



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Prepared by:

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December 2020

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# **ACRONYMS AND ABBREVIATIONS**

AB	Assembly Bill
APE	Area of Potential Effect
BMPs	best management practices
CalEEMod	California Emissions Estimator Model
CAGN	coastal California gnatcatcher
CARB	California Air Resources Board
CDFW	
CEQA	California Department of Fish and Wildlife
	California Environmental Quality Act
CESA	California Endangered Species Act
CFGC	California Fish and Game Code
CH4	
City	City of Escondido
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
CRHR	California Register of Historical Resources
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibels
DPM	diesel particulate matter
EDI	Escondido Disposal, Inc.
ESA	Endangered Species Act
GHGs	greenhouse gases
GIS	Geographic Information Systems
HAs	Hydrologic Areas
HMP	Habitat Management Plan
HUs	Hydrologic Units
IS	initial study
LBVI	least Bell's vireo
LCFS	Low-Carbon Fuel Standard
L <sub>eq</sub>	equivalent noise level
LUST	Leaking Underground Storage Tank
MBTA	Migratory Bird Treaty Act
МНСР	Multiple Habitat Conservation Program
MND	mitigated negative declaration
MSCP	Multiple Species Conservation Plan
MT	metric tons
N <sub>2</sub> O	nitrous oxide
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
-	

NOx	nitrogen oxides
NRCS	Natural Resource Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
O <sub>3</sub>	ozone
O&M	operations and maintenance
OHWM	Ordinary High Water Mark
PM10	particulate matter less than 10 microns
PM2.5	particulate matter less than 2.5 microns
PPV in/sec	peak particle velocity in inches per second
PRC	Public Resources Code
RAQS	Regional Air Quality Strategy
RGP	existing Regional General Permit
ROG	reactive organic gases
RWQCB	Regional Water Quality Control Board
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCIC	South Coastal Information Center
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SHPO	State Historic Preservation Officer
SO <sub>2</sub>	sulfur dioxide
TAC	toxic air contaminants
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service

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# **INITIAL STUDY**

1. Project Title	Channel Maintenance Activities – RGP 94 – Channel Maintenance	
	Program Implementation & Renewal Project	
2. Lead Agency Name and	City of Escondido	
Address	Environmental Programs Division	
	201 N. Broadway	
	Escondido, CA 92025	
3. Contact Persons and Phone	Alicia Appel, Environmental Programs Manager	
Numbers	(760) 839-6315	
	201 North Broadway	
	Escondido, CA 92025-2798	
4. Project Location:	City of Escondido, San Diego County, CA	
5. Project Sponsor's Name and	City of Escondido	
Address	Alicia Appel, Environmental Programs Manager, (760) 839-6315	
	Elisa Marrone, AICP, Environmental Programs Specialist, (760) 839-	
	4075	
	201 North Broadway,	
	Escondido, CA 92025-2798	
6. General Plan Designation	Multiple citywide - Please refer to the attached project description.	
7. Zoning	Multiple citywide - Please refer to the attached project description.	
8. Description of Project: Flood Co	ontrol Channel Maintenance Program Activities Implementation and	
	maintenance of 63 sites/facilities and the addition of 24 flood control	
sites/facilities for a total of 87 sites.	Please refer to the attached project description.	
9.Surrounding Land Uses and Setting: Varies citywide - Please refer to the attached project description.		
10.Other Public Agencies Whose Approval is Required:		
U.S. Army Corps of Engineers – Re	gional General Permit	
U.S. Fish and Wildlife Service – Section 7 Informal Consultation		
Regional Water Quality Control Board – 401 Water Quality Certification		
California Department of Fish and Game – Streambed Alteration Agreement		
11. Tribal Consultation. Have Cali	fornia Native American tribes traditionally and culturally affiliated	
with the project area requested consultation pursuant to Public Resources Code section 21080.3.1?		
If so, has this consultation begun?		
Four Native American tribes (Rincon, San Luis Rey, Soboba and Mesa Grande) were mailed notification		
regarding the proposed project in conformance with Assembly Bill 52. The Rincon and San Luis Rey tribes		
responded requesting formal consultation. Formal consultation was conducted with representatives from		
Rincon and San Luis Rey on June 17, 2020.		

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# I. OVERVIEW

The City of Escondido (City), as the lead agency under the California Environmental Quality Act (CEQA), has prepared this Supplemental Initial Study (IS) and Mitigated Negative Declaration (MND) to evaluate the potential environmental effects associated with the proposed renewal of the existing Regional General Permit (RGP) 94 for the City of Escondido Channel Maintenance Activities Project and an amendment to this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), and perform additional work activities. The current Channel Maintenance Activities Project RGP 94 expires in May 2020.

This section includes a brief overview of the requirements pursuant to CEQA, proposed project's previous environmental documentation, the scope of the environmental analysis, and the document's organizational structure and content.

# II. REQUIREMENTS AND PURPOSE OF AN INITIAL STUDY/MITIGATED NEGATIVE DELCARATION

The preparation of an IS/MND is governed by two principal sets of laws: CEQA Statute (Public Resources Code [PRC] §21000 et seq.) and the State CEQA Guidelines (California Code of Regulations §15000 et seq.). Specifically, State CEQA Guidelines Section 15063 ("Initial Study") and Sections 15070–15075 ("Negative Declaration Process") guide the process for the preparation of an IS/MND. Where appropriate and supportive to an understanding of the issues, reference is made either to the statute, the State CEQA Guidelines, or appropriate case law.

This Supplemental IS/MND, as required by State CEQA Guidelines Section 15071, contains (1) a brief description of the proposed project, (2) the proposed project location, (3) a proposed finding that the proposed project will not have a significant effect on the environment, (4) a copy of the IS documenting support for the findings, and (5) all mitigation measures to be implemented.

# III. BACKGROUND AND PREVIOUS ENVIRONMENTAL DOCUMENTATION

The City owns and operates a Municipal Separate Storm Sewer System (MS4) infrastructure that includes various facilities associated with flood control and drainage throughout Escondido, San Diego County, California. Pursuant to the City's Mobility and Infrastructure Element of the General Plan update (2012), Storm Drain Policy 14.11 requires that the City "maintain flood control channels and storm drains through periodic dredging, repair, desilting and clearing to prevent losses in effective use." As identified in this Policy, the City has ongoing needs to effectively perform routine operations and maintenance (O&M) activities for flood control and the management of sediment deposition on 63 facilities (constructed and natural) at various locations throughout the city. A final Initial Study/Mitigated Negative Declaration was adopted for the 2013 Channel Maintenance Activities (City File No. ENV 12-0001; City of Escondido 2013), herein referred to as the 2013 MND ENV 12-0001. An addendum to the Final IS/MND was prepared and adopted (City of Escondido

2014), herein referred to as the 2014 Addendum ENV 12-0001. The 2013 MND and 2014 Addendum can be viewed at: http://www.escondido.org/active-projects.aspx.

Since that time, the City has identified 24 additional facility locations, the need to expand a current facility location (already included in the RPG 94 permits), and additional work activities. Work activities include the excavation of accumulated sediment and herbaceous vegetation within concrete channels and earthen streams/creeks, excavation and clearing of culvert inlets and outlets within a specified radius, removal of nonnative trees within specified facility locations, the trimming of native shrub and tree cover that inhibit positive flow and create debris jams, and the excavation of accumulated sediment and vegetation within a specified basin. Additional work activities would include one-time native tree removal to gain access and/or allow positive flows to occur at specific facility locations and the repairs of existing hardscaped facilities. The project also includes minor repairs to segments of concrete-lined channels or riprap-lined segments that will not result in the modification of the character, size, or scope of the original fill design. Additionally, these repairs will be limited to either current or new RGP sites. Lastly, to mitigate for the functional loss of habitat within jurisdictional waters associated with this additional work as well as leave a surplus that will be available for future RGP 94 renewals and future public works projects, the City is also proposing to rehabilitate and enhance a 10.93-acre mitigation site located within Kit Carson Park.

Due to changes to the project and the extended period of time that has passed between adoption of the 2013 MND ENV 12-0001 and the 2014 Addendum ENV 12-0001, the City has prepared this Supplemental IS/MND to evaluate the potential impacts that would occur as a result of the inclusion of 24 more facility locations, expansion of a current facility location, and proposed additional work activities.

## 2013 MND ENV 12-0001

The City's 2013 MND ENV 12-0001 (State Clearinghouse No. 2012121063) evaluated the impacts from routine O&M activities for flood control and the management of sediment deposition on approximately 76 acres of land among 63 flood control and storm drainage facilities (constructed and natural) throughout Escondido.

The environmental analysis identified several mitigation measures to address and mitigate potentially significant impacts related to appropriate permits from various agencies that were required to perform the necessary work, along with appropriate mitigation for impacts on sensitive resources/habitat areas. The RGP program consolidates all required environmental permits from applicable resource agencies into one application for a five-year period. Overall, the RGP is the City's five-year plan for maintenance and protection of environmental resources for each site and provides the foundation for the City's multi-agency permit application project. The frequency with which maintenance activities would be conducted is site-specific and varies by structure and location. The Final MND was adopted by City Council on March 13, 2013 (Resolution No. 2013-24) and a Notice of Determination (NOD) filed with the San Diego County Clerk/Recorder and State Clearinghouse.

## 2014 Addendum ENV 12-0001

In 2014, the City's Public Works Department identified that trees in certain areas and in limited circumstances, would need to be trimmed between a 7- and 13-foot height in order to accommodate certain mechanical equipment. Therefore, an Addendum was prepared to refine a Biological Resources Mitigation Measure (BIO-15) to accommodate appropriate access and working area, as

well as to refine language regarding trimming/pruning of mature trees with language that more accurately represents the intended purpose of the measure, which is to maintain the overall health and appearance of native mature trees.

## 2015 Lake and Streambed Alteration Agreement

The California Department of Fish and Wildlife (CDFW) filed a Notice of Determination with the State Clearinghouse in August 2015 to execute a Lake and Streambed Alteration Agreement, pursuant to Section 1602 of the California Fish and Game Code (CFGC) (#1600-2013-0066-R5). Covered project activities included dredging and excavating concrete and earthen channels and basins, clearing culverts and associated inlet and outlet structures, clearing and trimming vegetation, and clearing and grading access roads. Various methods and types of equipment were identified for use, including manual hand tools, mechanical hand tools, a grader, backhoe, excavator, skid steer, and front-end loader. Project activities affected 74.24 acres of stream habitat, which, at the time of notification submittal, consisted of 0.81 acre of Tier 1 resources (native habitats growing within earthen facilities or non-serviceable concrete facilities), 0.59 acre of Tier II resources (nonnative habitats and unvegetated areas occurring within earthen facilities or non-serviceable concrete facilities), 1.10 acre of Tier III resources (unvegetated areas occurring within serviceable concrete facilities), and 71.74 acres of Tier IV resources (unvegetated areas occurring within serviceable concrete facilities). Serviceable concrete facilities are those that have intact concrete linings and do not support mature native trees or shrubs.

### Previous Environmental Documents Incorporated by Reference

In accordance with Section 15150 of the State CEQA Guidelines, the City's 2013 MND ENV 12-0001 and 2014 Addendum ENV 12-0001 are hereby incorporated by reference into this Supplemental IS/MND where referenced specially and are available for public review at the City of Escondido Planning Department at 201 N Broadway, Escondido, California 92025.

## IV. REQUIREMENTS AND PURPOSE FOR SUPPLEMENTAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

Pursuant to Section 15162(a) of the State CEQA Guidelines, when a pervious environmental document has been adopted/certified, no subsequent environmental document may be required for a project unless the City determines, on the basis of substantial evidence, that one or more of the following conditions are met:

- Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:

- (A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
- (B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;
- (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
- (D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

According to the State CEQA Guidelines (Section 15163), the Lead Agency may choose to prepare a supplement to an environmental document rather than a subsequent environmental document if:

- Any of the conditions described in State CEQA Guidelines Section 15162 would require the preparation of a subsequent environmental document, and
- Only minor additions or changes would be necessary to make the previous environmental document adequately apply to the project in the changed situation.

Based on the requirements above, the City has determined that a Supplemental IS/MND is the most appropriate environmental document due to the changes to the project and the extended period of time that has passed between certification/adoption of both the 2013 MND and the 2014 Addendum.

In addition, the supplemental document need contain only the information necessary to make the previous environmental document adequate for the project as revised. A supplemental document shall also be given the same kind of notice and public review as is given to the original document, and the supplemental document may be circulated by itself without recirculating the previous draft or final document. When the agency decides whether to approve the project, the decision-making body shall consider the previous environmental document as revised by the supplemental document.

Pursuant to Section 15367 of the State CEQA Guidelines, the City is the lead agency for the proposed project. The lead agency is the public agency that has the principal responsibility for carrying out or approving a project. The City, as the lead agency, will have the authority for project approval and adoption of the accompanying environmental documentation.

Based on the environmental checklist form prepared for the proposed project and the supporting environmental analysis, the proposed project would have no impact or a less-than-significant impact on the following topical environmental areas: aesthetics, agricultural and forestry resources, air quality, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, land use and planning, mineral resources, noise, population and house, public services, recreation, transportation, utilities, and wildfire.

The proposed project has the potential to have new or more severe impacts than those analyzed under the City's 2013 MND ENV 12-001 and 2014 Addendum ENV 12-0001 unless the recommended mitigation measures are incorporated into the proposed project in the following environmental areas: biological resources, cultural resources, hydrology and water quality, and tribal cultural resources.

According to the State CEQA Guidelines (Section 15163), it is appropriate to prepare a Supplemental IS/MND for the proposed project because only minor additions or changes would be necessary to make the previous IS/MND adequate to address impacts associated with the proposed project.

# v. ENVIRONMENTAL ISSUES ADDRESSED

This Supplemental IS/MND evaluates the proposed project's effects on the following resource topics.

- Aesthetics
- Biological Resources
- Geology and Soils
- Hydrology and Water Quality
- Noise
- Recreation
- Utilities and Service Systems

- Agriculture and Forestry Resources
- Cultural Resources
- Greenhouse Gas Emissions
- Land Use and Planning
- Population and Housing
- Transportation
- Wildfire

- Air Quality
- Energy
- Hazards and Hazardous Materials
- Mineral Resources
- Public Services
- Tribal Cultural Resources
- Mandatory Findings of Significance

The environmental setting and impact analysis discussion for each of these topics is provided in Section 3, *Environmental Checklist*, of this document.

# VI. PREPARATION OF FINAL SUPPLEMENTAL IS/MND

The draft Supplemental IS/MND and Notice of Availability and Intent to Adopt the Supplemental IS/MND were circulated to public agencies and interested parties on October 29, 2020, for a 30-day public review period that ended on November 30, 2020. During the public review period, one comment letter was received from the San Pasqual Band of Mission Indians and is included in Appendix E. The comment letter stated that the proposed project is not within the boundaries of the recognized San Pasqual Indian Reservation; however, it is within the boundaries of the territory that the tribe considers its Traditional Use Areas and thus requested to be kept informed about project updates, modifications to project boundaries, or any newly discovered sites. The City will keep the tribe apprised as the project progresses. None of the comments received affect the conclusions or determinations contained within the draft Supplemental IS/MND that was circulated to the public, and revisions are not warranted.

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# I. BACKGROUND

As the current Channel Maintenance Activities Project RGP 94 permit expired in May 2020, the City is requesting the renewal of the existing RGP 94 permit and amendment of this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), as well as include additional work activities. The renewed permit would allow the City to conduct O&M activities at 87 existing concrete and earthen storm water facilities.

The O&M activities performed at the 63 facilities under the current RGP would remain the same (with the expansion of one site). See Appendix A for a description of the maintenance activities for the current RGP facilities.

# II. PROJECT OBJECTIVES

The goals and objectives of the proposed project are to maintain facility locations for long-term flood control, public safety, and protection of water quality. The proposed project establishes routine maintenance activities to be performed at all facility locations, compensatory mitigation requirements, and general reporting requirements. The City is responsible for maintaining the existing facility locations to ensure adequate flood control capacity and avoid potential vector control issues.

The City is proposing the minimum maintenance footprints necessary to ensure that the existing facility locations function as originally designed, as well as maintain positive hydraulic flow.

# III. OPERATIONS AND MAINTENANCE ACTIVITIES

As stated above, the City is proposing to conduct O&M activities at 24 new maintenance sites and 63 previously approved maintenance sites that are currently authorized by the 2015 RGP 94. Figures 2-1 and 2-2 depict the regional location and project vicinity as well as the 63 facilities covered under the current RGP 94 and the 24 newly proposed facilities. Table 2-1 summarizes the location, maintenance activities to be implemented, and features of the 24 new sites. Figure 2-3 shows the location of each new site. The types of facilities that would be added as new facilities under RGP 94 are listed below and include:

- Earthen streams/creeks and storm water channels with hydrologic regimes ranging from ephemeral to perennial;
- Concrete bottom channels with hydrologic regimes of ephemeral and intermittent;
- Culverts and their associated inlets and outlets; and
- A storm water basin.

The following work activities would be conducted at the facility locations:

- Accumulated sediment and herbaceous vegetation within concrete channels and earthen streams/creeks will be excavated to allow for positive flow;
- Culvert inlets and outlets will be excavated and cleared within a specified radius;
- Nonnative trees will be removed within specified facility locations;
- One-time native tree removal to gain access and/or allow for positive flows will occur at specific facility locations (either cut at stump, leaving root in place or root and all removal depending on its location);
- Native shrub and tree cover that inhibit positive flow and create debris jams will be trimmed; and
- Accumulated sediment and vegetation within a basin will be excavated.

Facilities requiring maintenance are located on privately owned parcels or on City easements or rights-of-way (Figure 2-3). All work done on private land would be completed with appropriate permission from the landowners. Access to structures for O&M activities would typically be from the nearest public roadway. Most sites would be accessed without impacting the surrounding areas, which would include either development (i.e., private homeowner landscaping) or disturbed habitat. One site (E-58 Reidy Creek Golf Course ) will require access points through upland native habitat as shown on Figure 2-3, Sheets 20 and 21. All O&M activities would be completed during normal business hours (7:30 a.m. to 6:00 p.m.), Monday through Friday.

To mitigate for the functional loss of habitat within jurisdictional waters associated with this additional work as well as leave a surplus that will be available for future RGP 94 renewals and future public works projects, the City is also proposing to rehabilitate and enhance a 10.93-acre mitigation site located within Kit Carson Park.

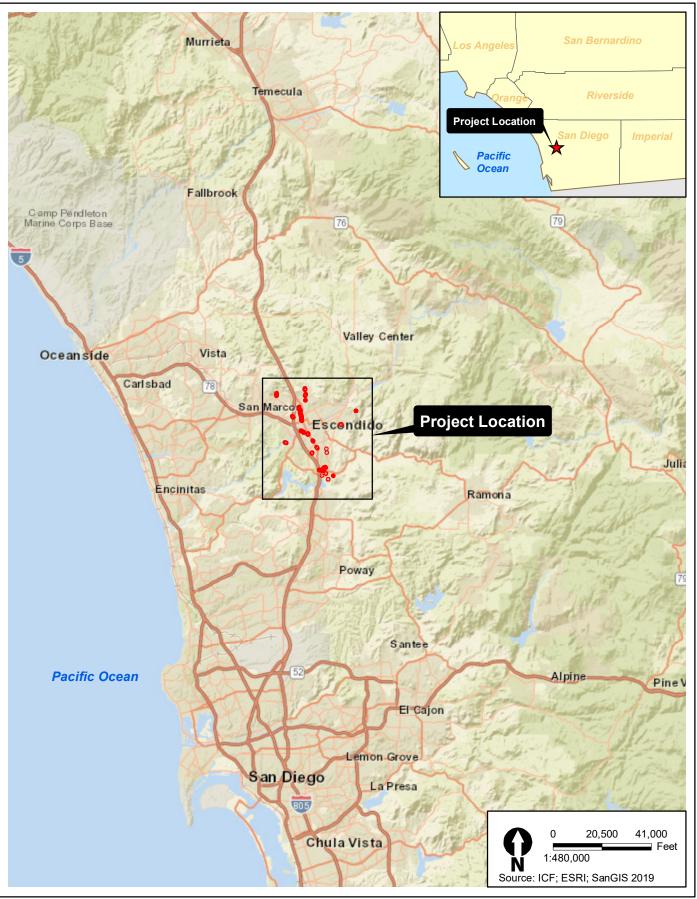




Figure 2-1 Regional Vicinity Escondido RGP 94 Channel Maintenance Project

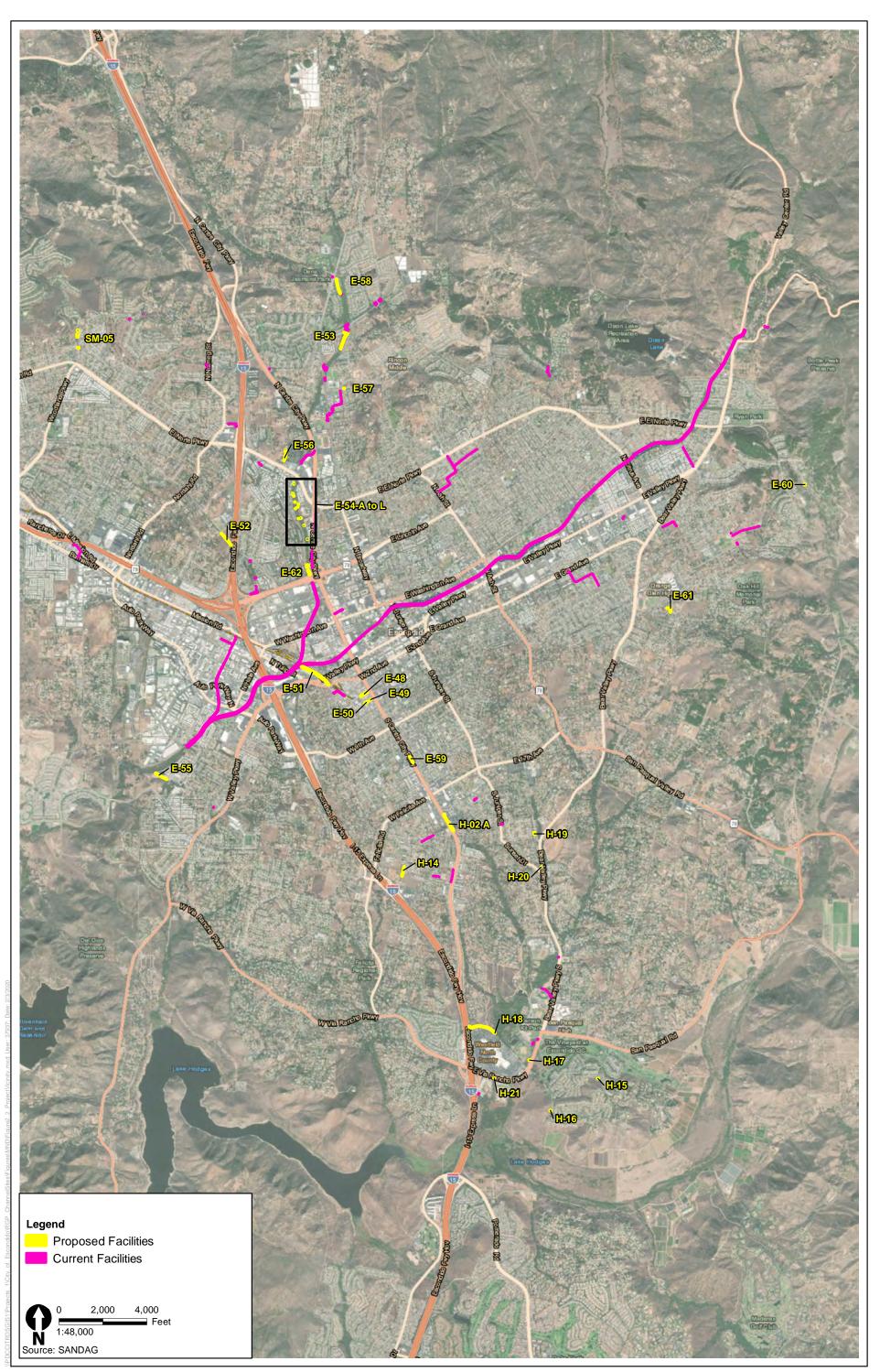


Figure 2-2 Project Vicinity Escondido RGP 94 Channel Maintenance Project

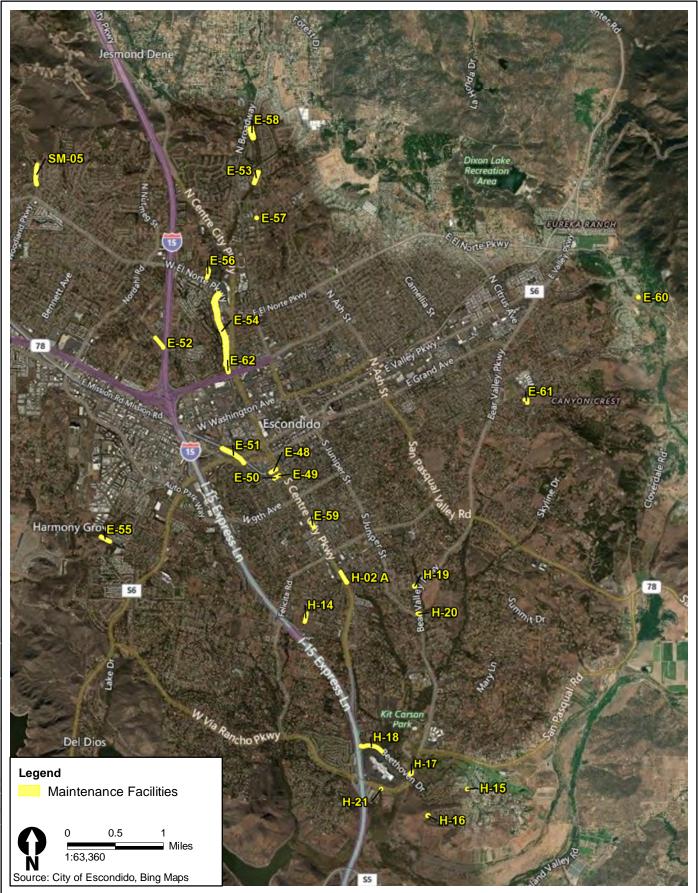
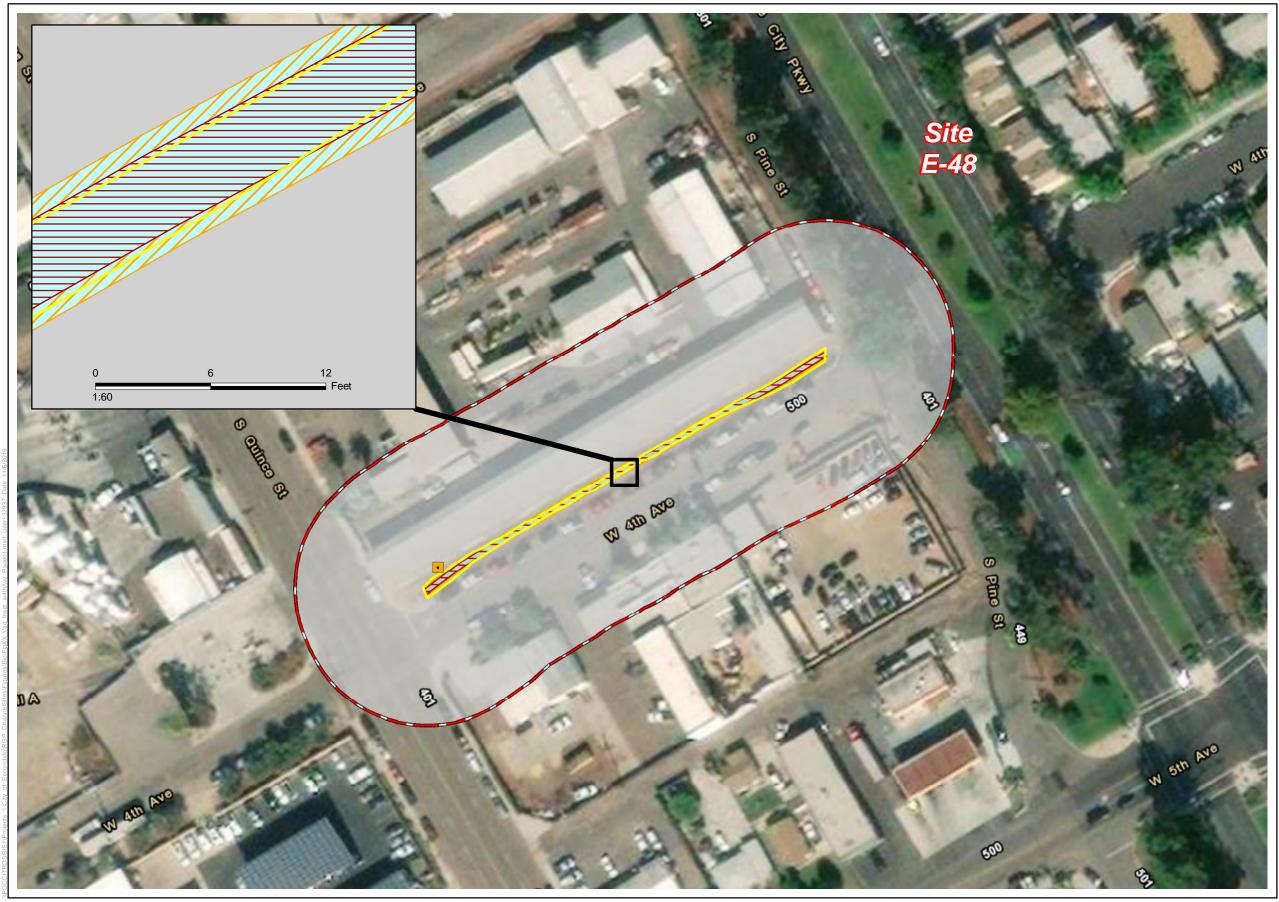




Figure 2-3 Project Overview Escondido RGP 94 Channel Maintenance Project





Inlet

- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

- **Kiparian Extent**
- Channel Bed and Bank

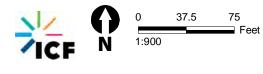
#### Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 1 of 39 E-48 W 4th Ave. Escondido RGP 94 Channel Maintenance Project





Maintenance Sites

100-ft Buffer

#### USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 2 of 39 E-49 W 5th and Pine Escondido RGP 94 Channel Maintenance Project





Escondido RGP 94 Channel Maintenance Project

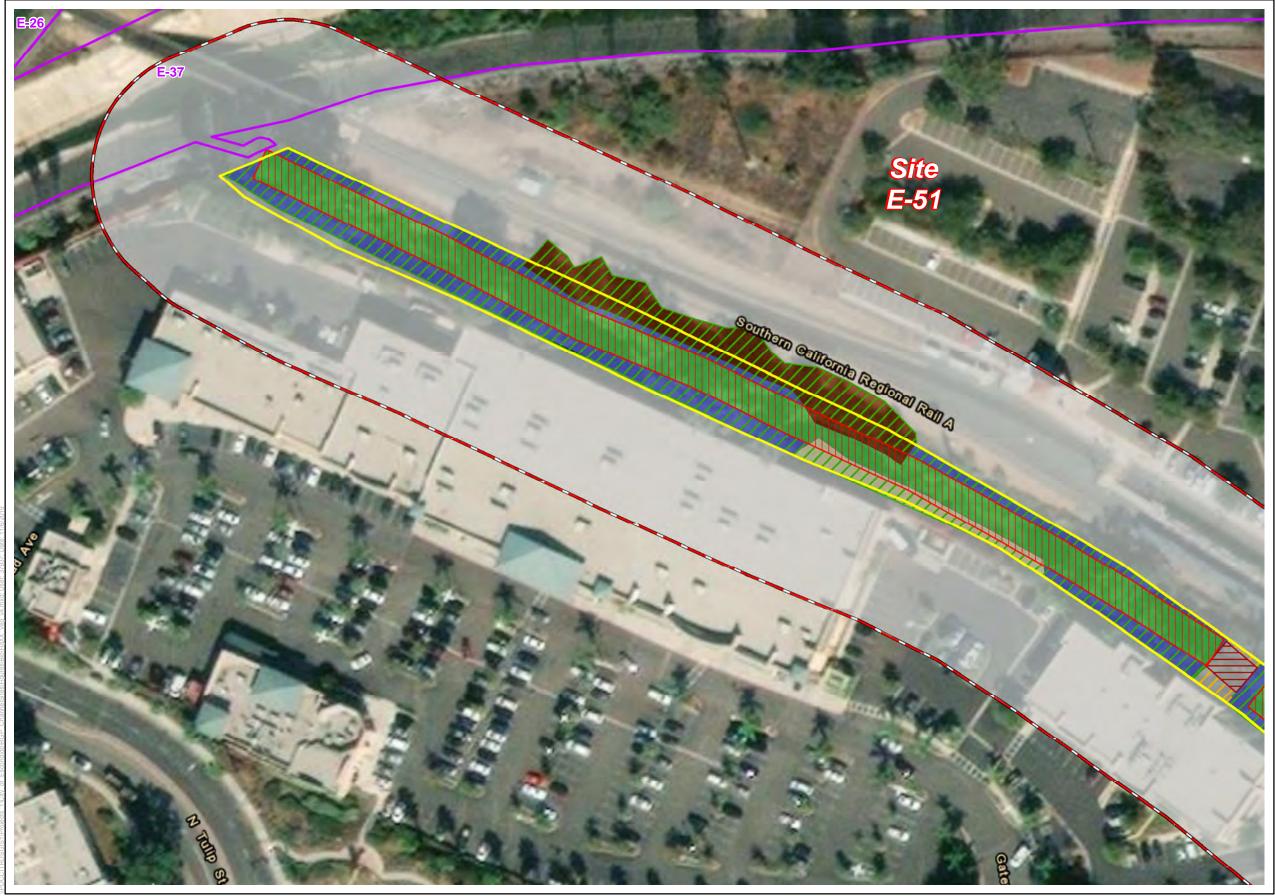




Legend 🔲 100-ft Buffer

Maintenance Sites Map Sheet Extent

Overview E-51 800 W Valley Escondido RGP 94 Channel Maintenance Project





100-ft Buffer

- Current RGP Maintenance Footprints
- Maintenance Sites

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW** Jurisdiciton

- **Z** Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Coastal and Valley Freshwater Marsh
- Disturbed So.Cottonwood-Willow Riparian Forest
  - Non-native Grassland
- Non-native Woodland
- Urban / Developed

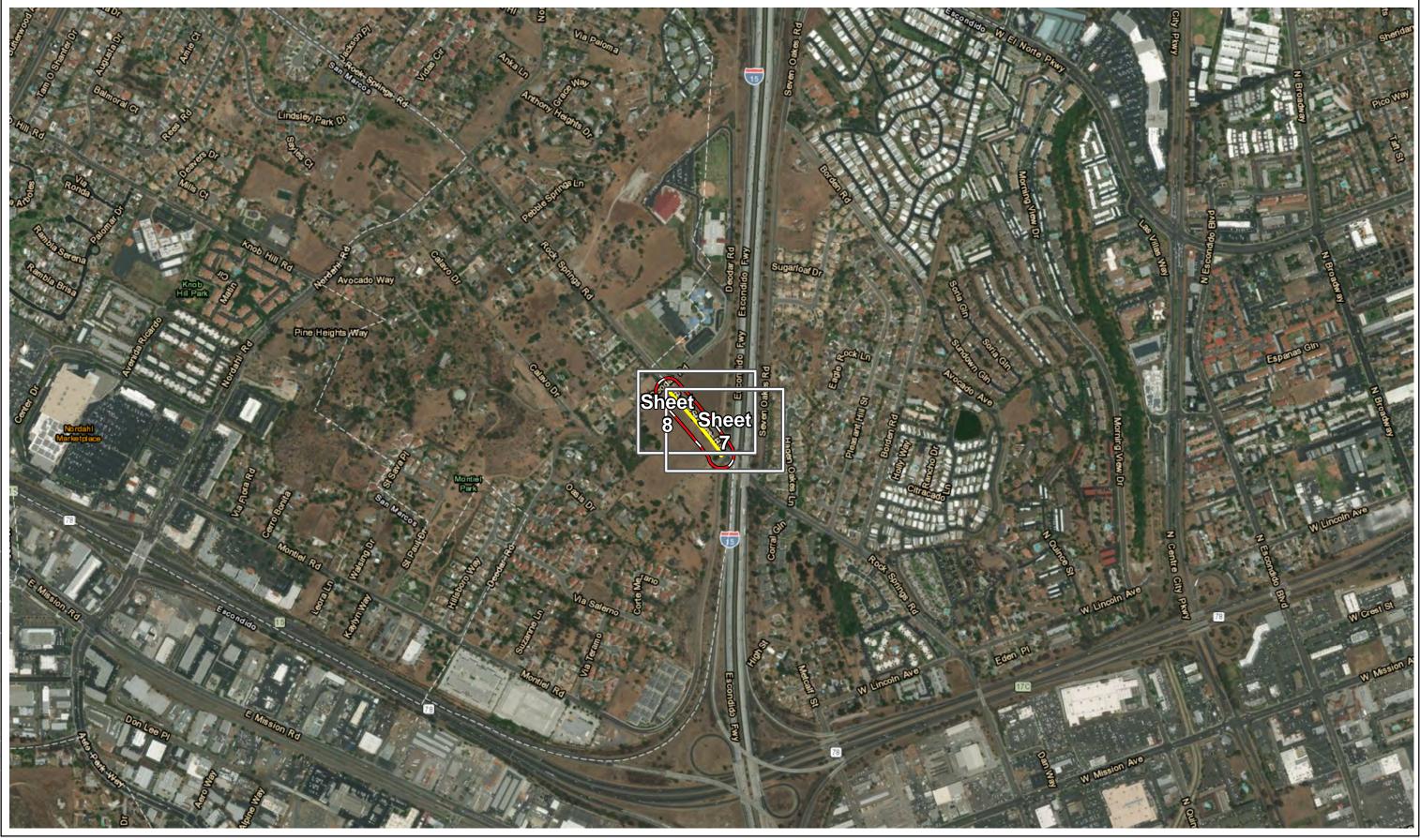
Source: City of Escondido; ICF 2019

Sheet 4 of 39 E-51 800 W Valley **Escondido RGP 94 Channel Maintenance Project** 





Sheet 5 of 39 E-51 800 W Valley **Escondido RGP 94 Channel Maintenance Project** 

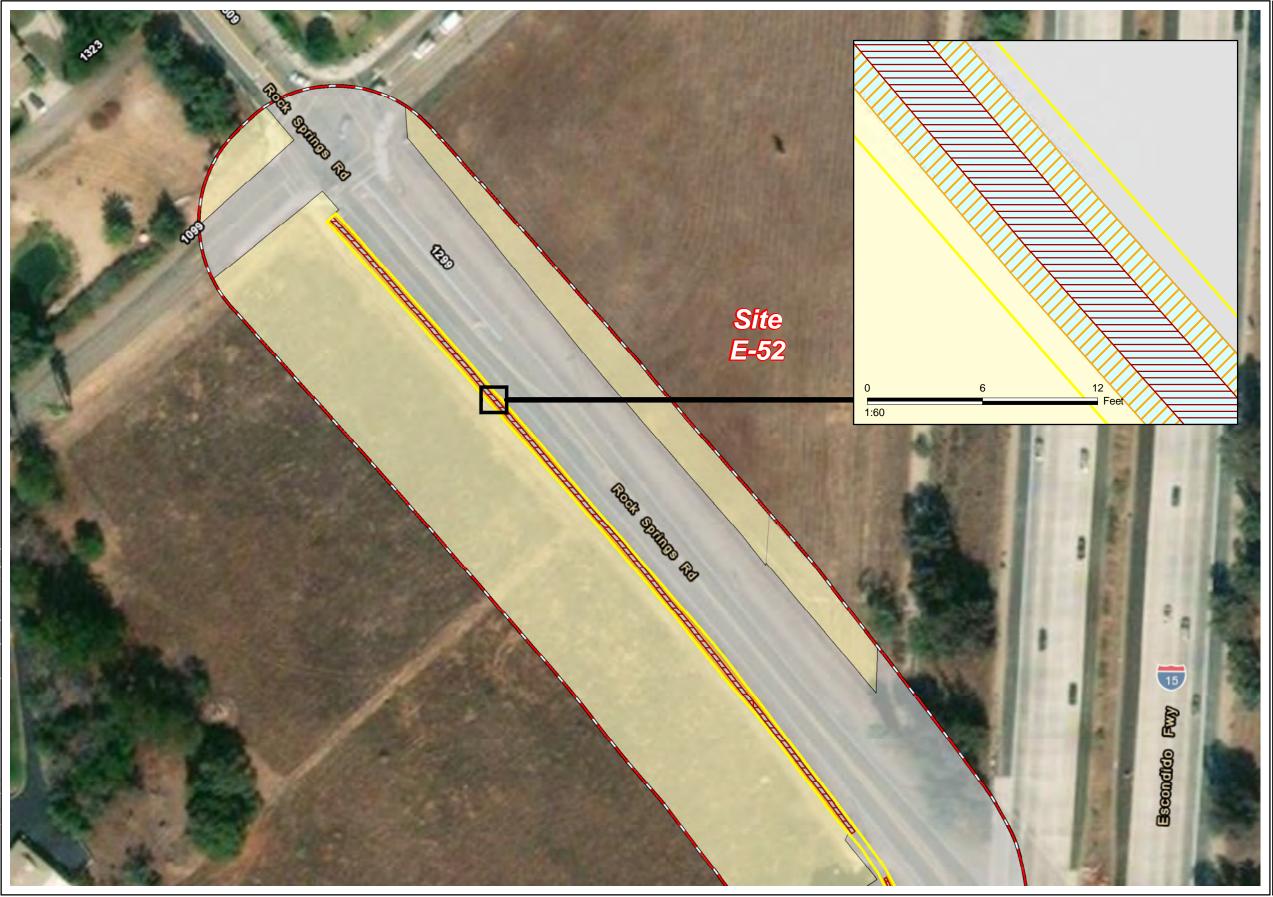






Maintenance Sites Map Sheet Extent

Overview E-52 Rock Springs (1) Escondido RGP 94 Channel Maintenance Project





Maintenance Sites

100-ft Buffer

#### USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
- Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 6 of 39 E-52 Rock Springs (1) Escondido RGP 94 Channel Maintenance Project







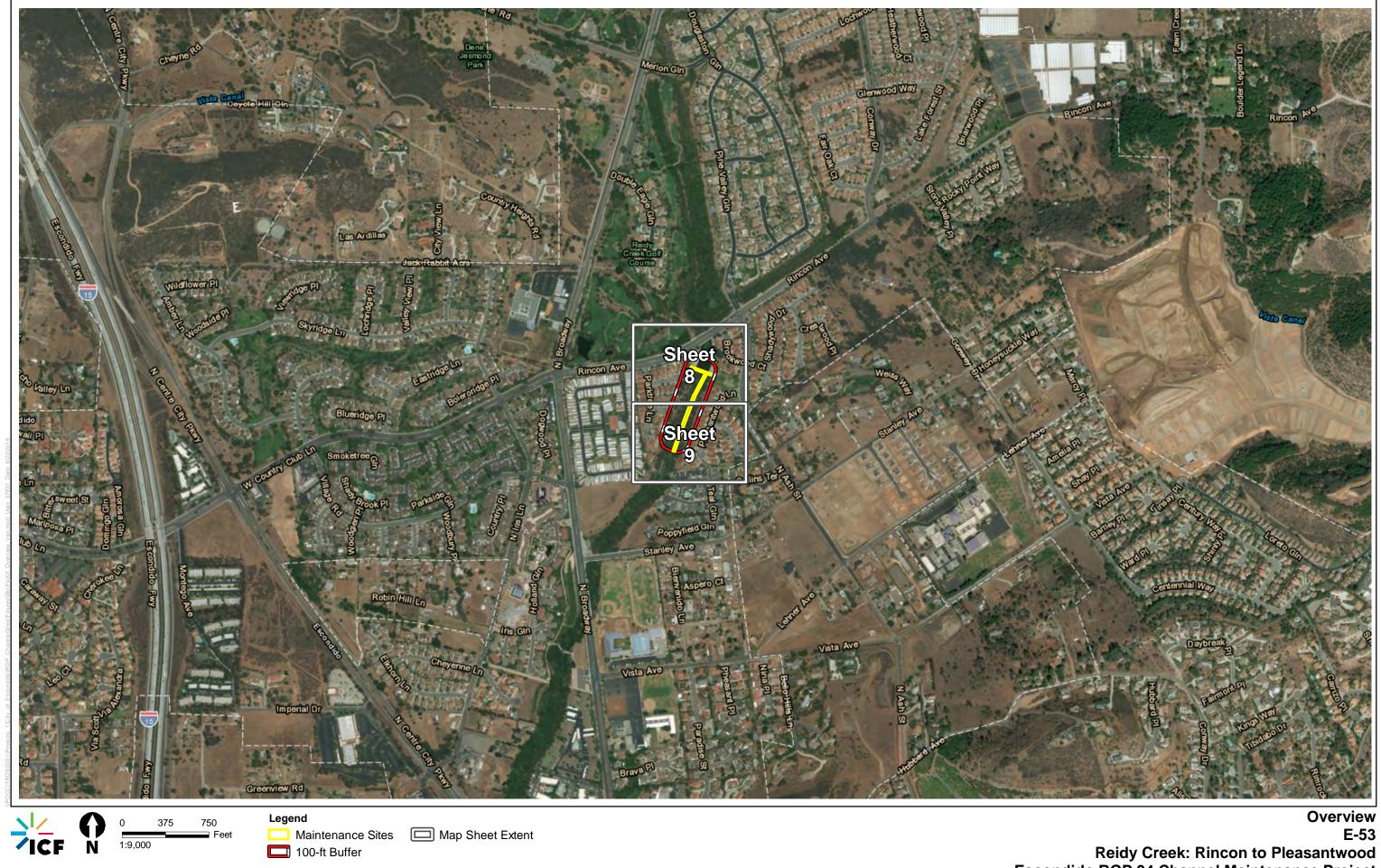
- 🛄 100-ft Buffer
- Maintenance Sites
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters
- **CDFW** Jurisdiciton
- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
  - Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 7 of 39 E-52 Rock Springs (1) Escondido RGP 94 Channel Maintenance Project



Reidy Creek: Rincon to Pleasantwood Escondido RGP 94 Channel Maintenance Project



#### 37.5 75 1:900

E-53 **Reidy Creek: Rincon to Pleasantwood** Escondido RGP 94 Channel Maintenance Project





- 100-ft Buffer
- Maintenance Sites
- **USACE/RWQCB** Jurisdiction
- Nonwetland Waters
- Wetland Waters
- **CDFW** Jurisdiciton
- **Riparian Extent**
- Channel Bed and Bank

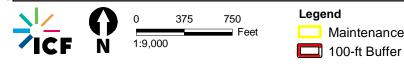
#### Vegetation

- Eucalyptus Grove
- Eucalyptus Woodland
- So.Cottonwood-Willow Riparian Forest
- Southern Riparian Scrub
- Disturbed Habitat
- Urban / Developed

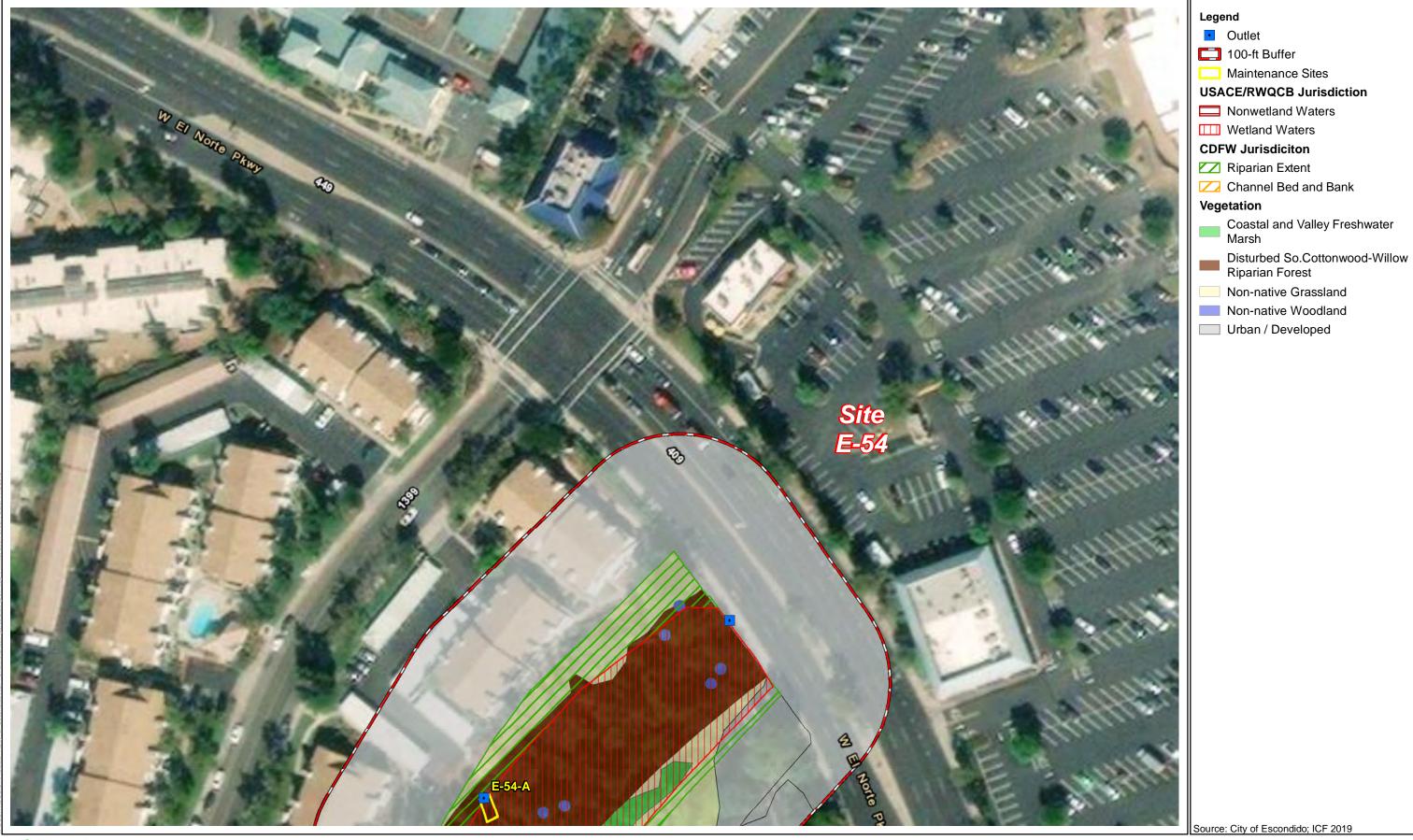
Source: City of Escondido; ICF 2019

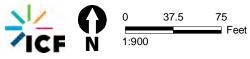
Sheet 9 of 39 E-53 **Reidy Creek: Rincon to Pleasantwood** Escondido RGP 94 Channel Maintenance Project



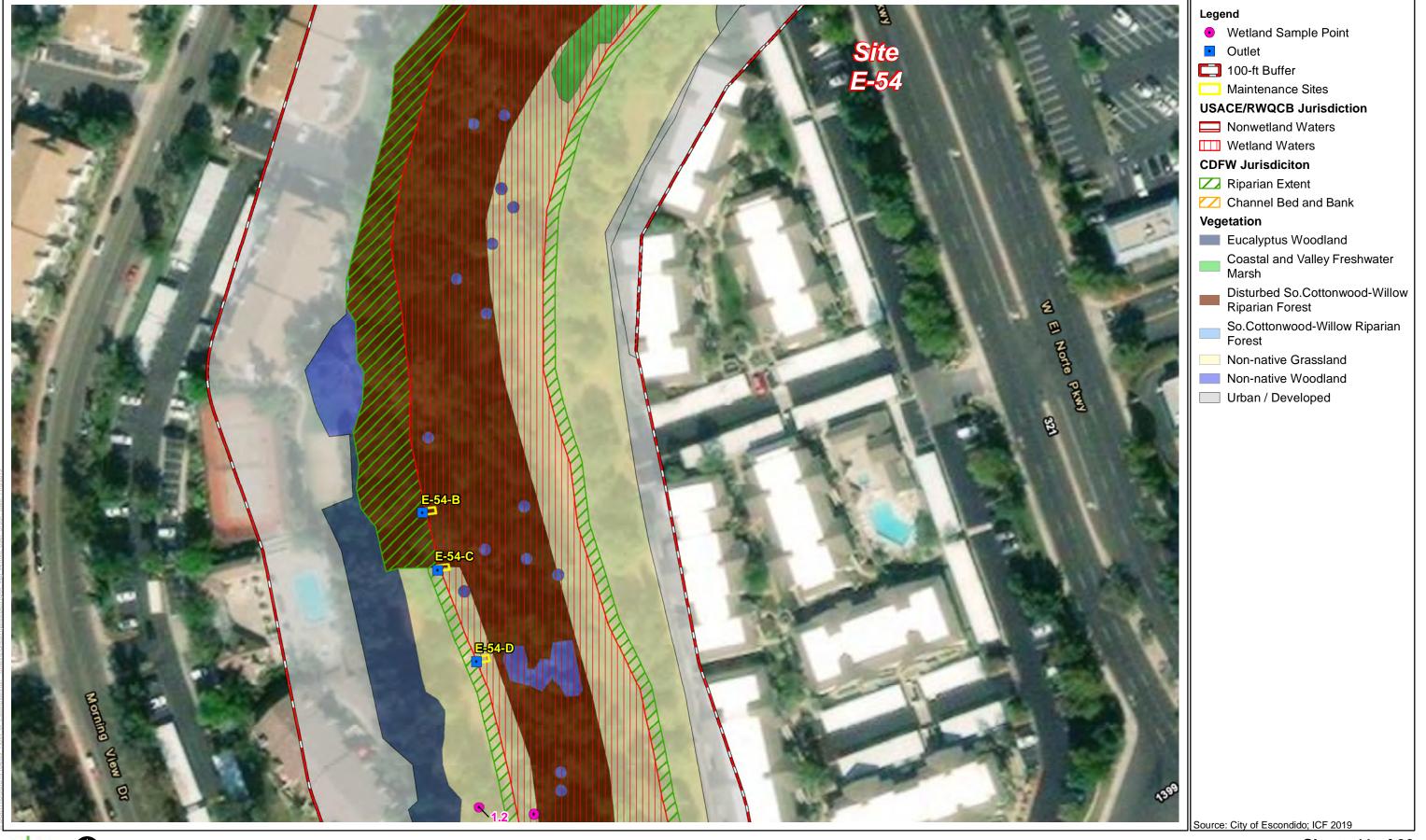


Overview E-54 Reidy Creek - Morning View Escondido RGP 94 Channel Maintenance Project





Sheet 10 of 39 E-54 **Reidy Creek - Morning View** Escondido RGP 94 Channel Maintenance Project





Sheet 11 of 39 E-54 **Reidy Creek - Morning View Escondido RGP 94 Channel Maintenance Project** 





- Outlet
- 100-ft Buffer
- Maintenance Sites

## USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

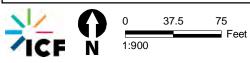
# Vegetation

- Eucalyptus Woodland
  - Disturbed So.Cottonwood-Willow Riparian Forest
  - Non-native Grassland
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 12 of 39 E-54 **Reidy Creek - Morning View** Escondido RGP 94 Channel Maintenance Project





- Outlet
- 100-ft Buffer
- Maintenance Sites

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW Jurisdiciton**

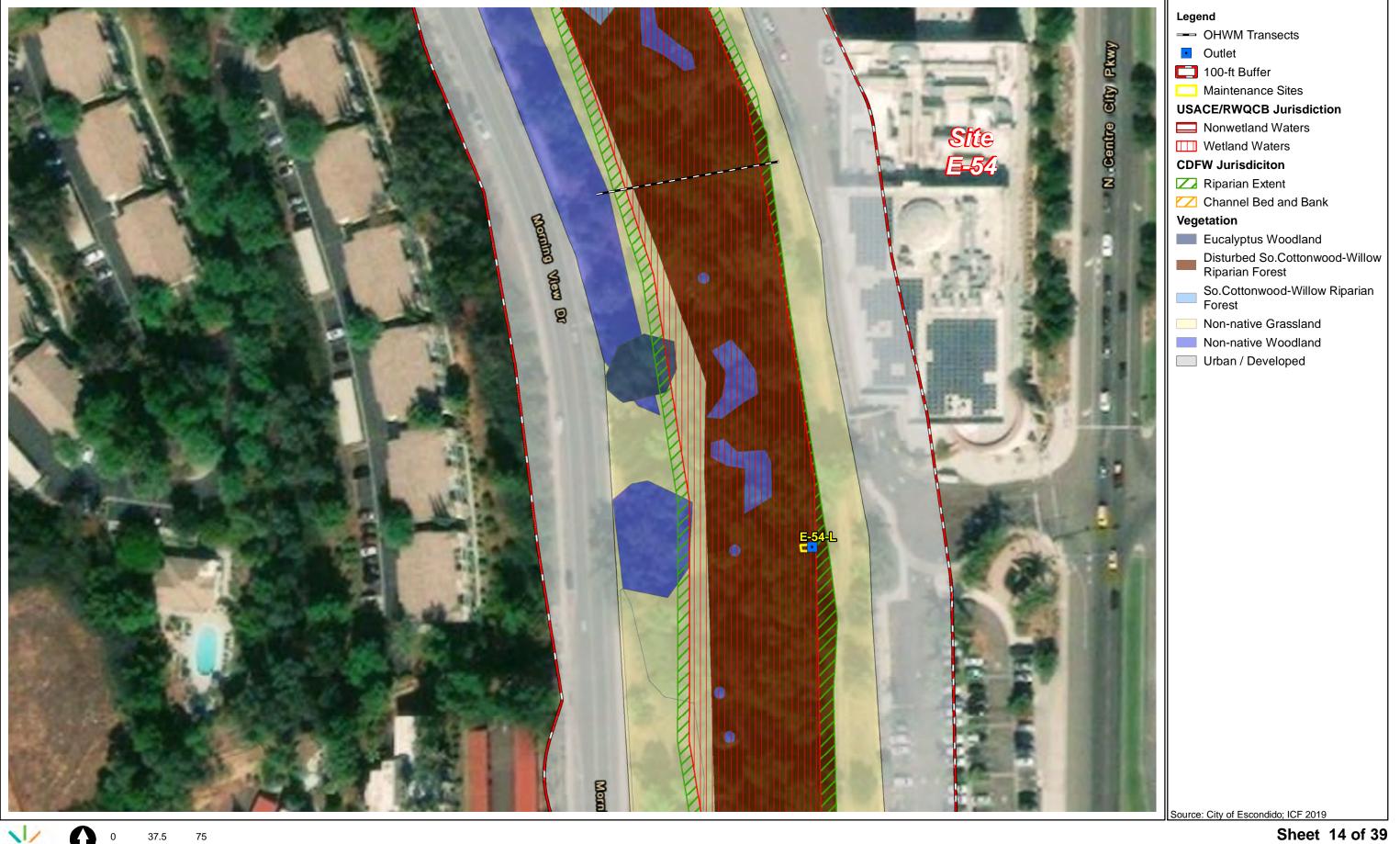
- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Disturbed So.Cottonwood-Willow Riparian Forest
- So.Cottonwood-Willow Riparian Forest
- Non-native Grassland
- Non-native Woodland
- Disturbed Habitat
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 13 of 39 E-54 **Reidy Creek - Morning View Escondido RGP 94 Channel Maintenance Project** 





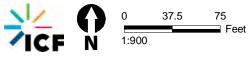
E-54 **Reidy Creek - Morning View Escondido RGP 94 Channel Maintenance Project** 



# 37.5 75

E-54 **Reidy Creek - Morning View** Escondido RGP 94 Channel Maintenance Project





Sheet 16 of 39 E-54 **Reidy Creek - Morning View** Escondido RGP 94 Channel Maintenance Project





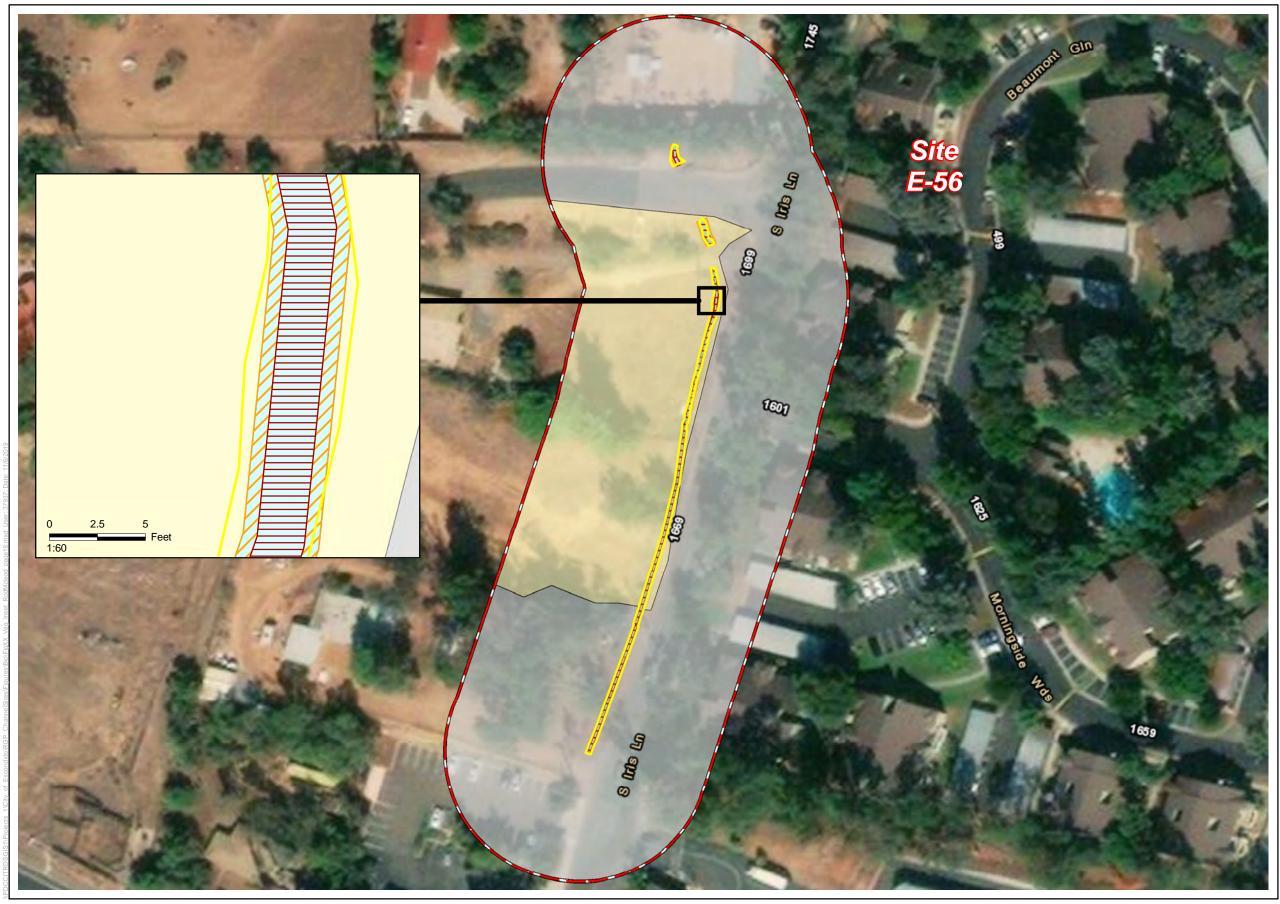
- 🛄 100-ft Buffer
- Maintenance Sites
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters
- **CDFW** Jurisdiciton
- **Z** Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Coast Live Oak Woodland
- So.Cottonwood-Willow Riparian Forest
- Southern Willow Scrub
- Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 17 of 39 E-55 HARRF **Escondido RGP 94 Channel Maintenance Project** 



# 37.5 75 0 1:900

#### Legend

Maintenance Sites

100-ft Buffer

# USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW** Jurisdiciton

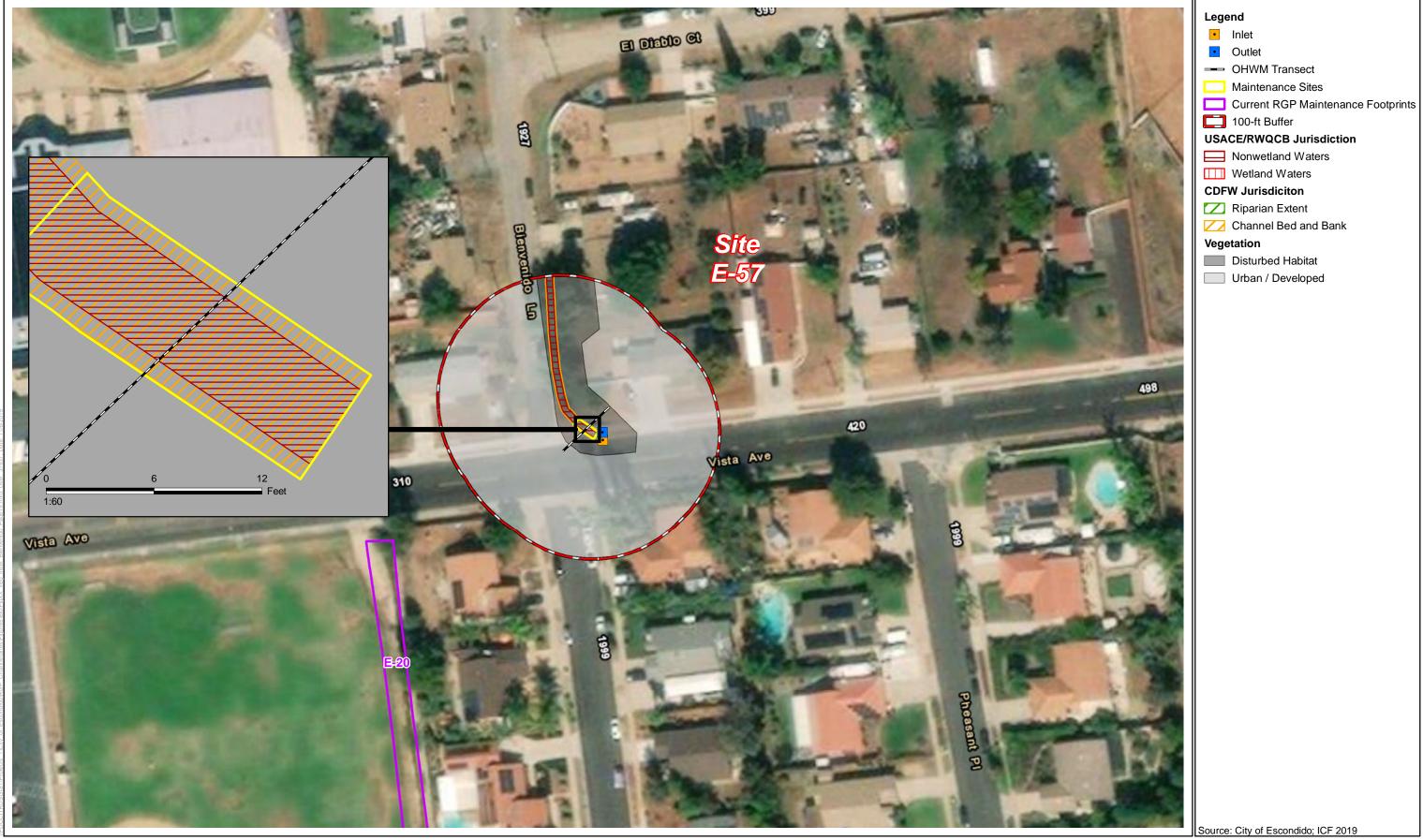
- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
- Non-native Grassland
- Urban / Developed

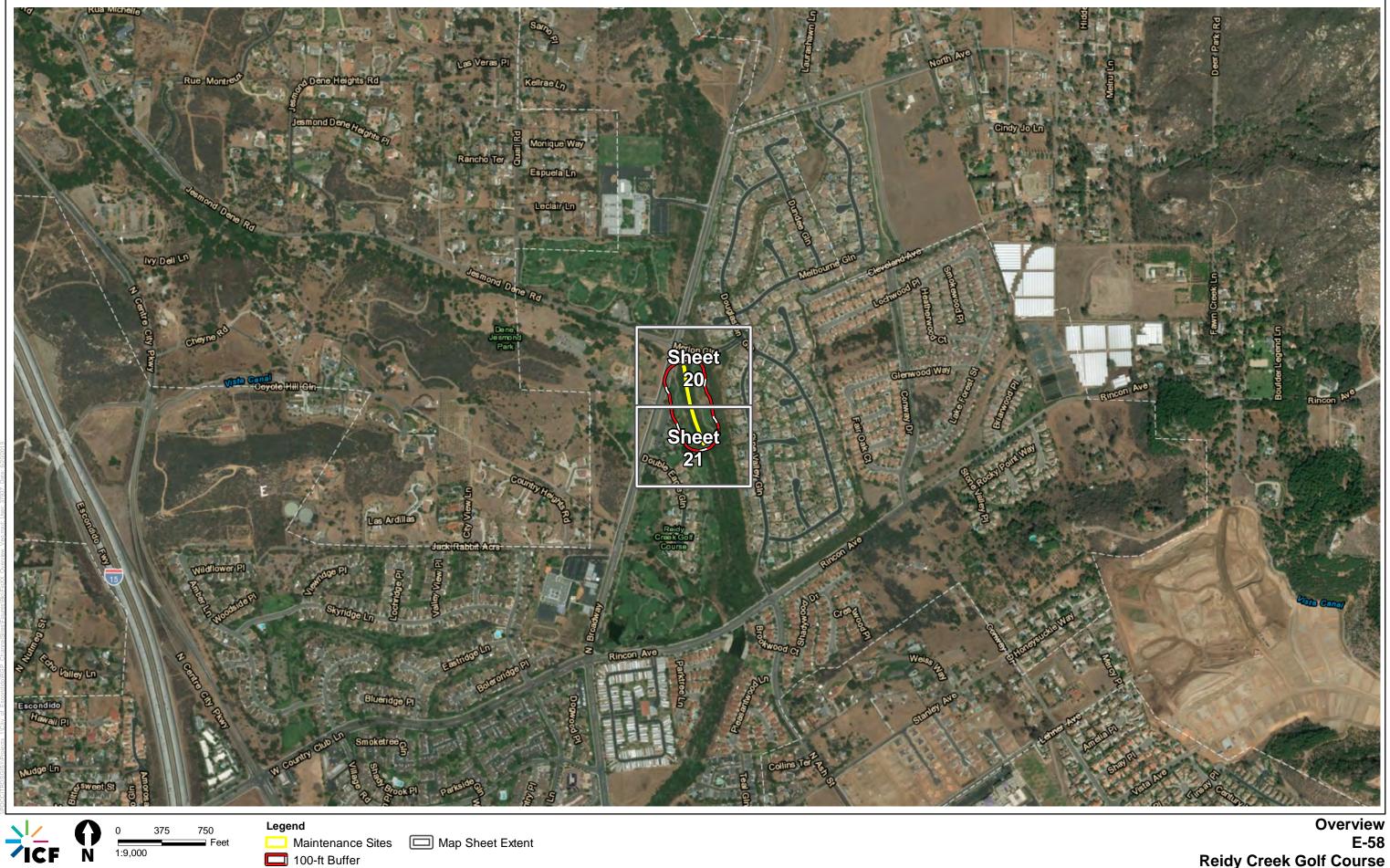
Source: City of Escondido; ICF 2019

Sheet 18 of 39 E-56 McLeod Park Escondido RGP 94 Channel Maintenance Project



#### 37.5 75 0 1:900

Sheet 19 of 39 E-57 **Bienvenido and Vista** Escondido RGP 94 Channel Maintenance Project



Reidy Creek Golf Course Escondido RGP 94 Channel Maintenance Project



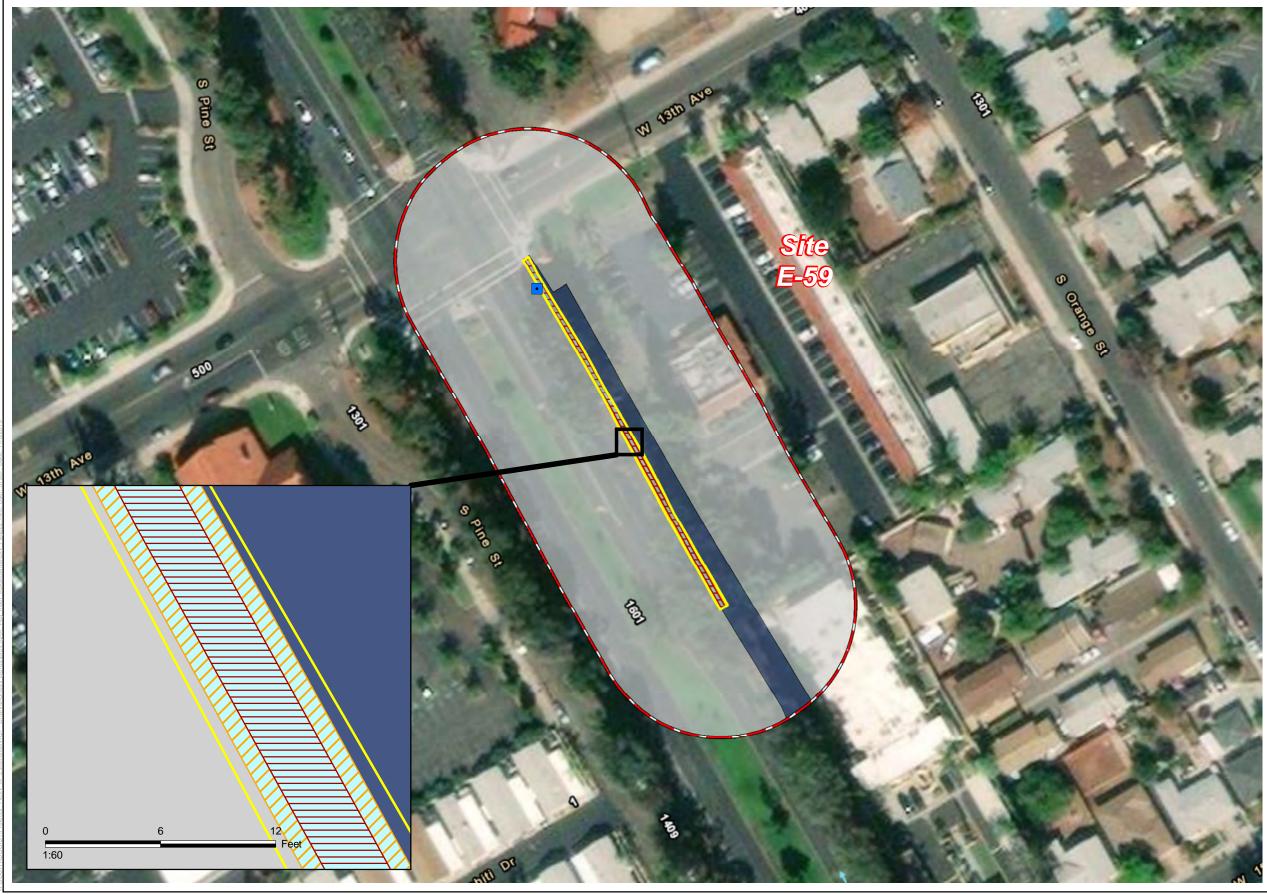


Sheet 20 of 39 E-58 **Reidy Creek Golf Course** City of Escondido Channel Maintenance Project





Sheet 21 of 39 E-58 **Reidy Creek Golf Course Escondido RGP 94 Channel Maintenance Project** 



- Outfall
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW Jurisdiciton**

- **Z** Riparian Extent
- 💋 Channel Bed and Bank

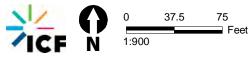
# Vegetation

- Eucalyptus Woodland
- Unvegetated Channel
- Urban / Developed

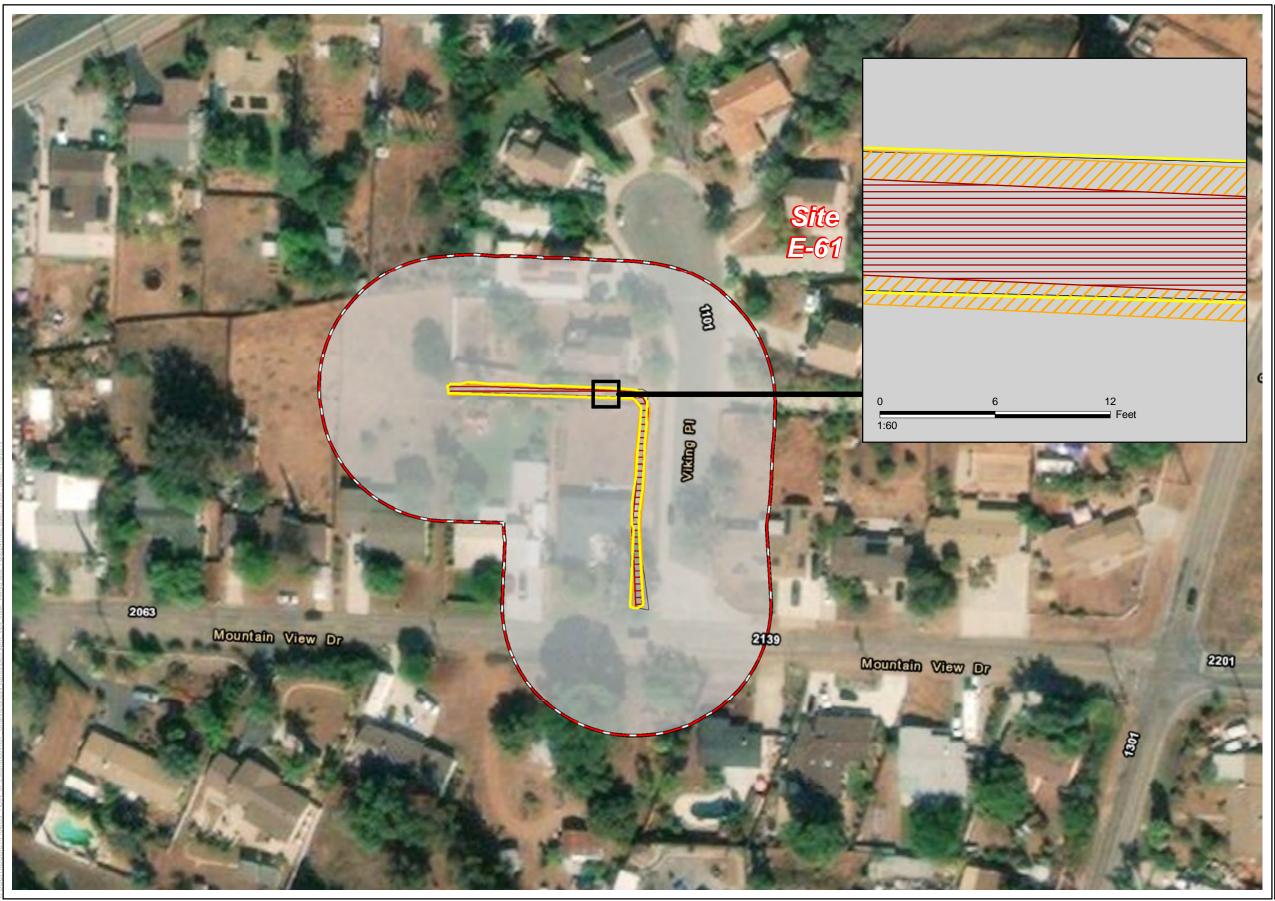
Source: City of Escondido; ICF 2019

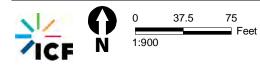
Sheet 22 of 39 E-59 E. Side Center City Pkwy and 13th Escondido RGP 94 Channel Maintenance Project





E-60 Oak Valley Lane Escondido RGP 94 Channel Maintenance Project





Maintenance Sites

100-ft Buffer

USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

**CDFW** Jurisdiciton

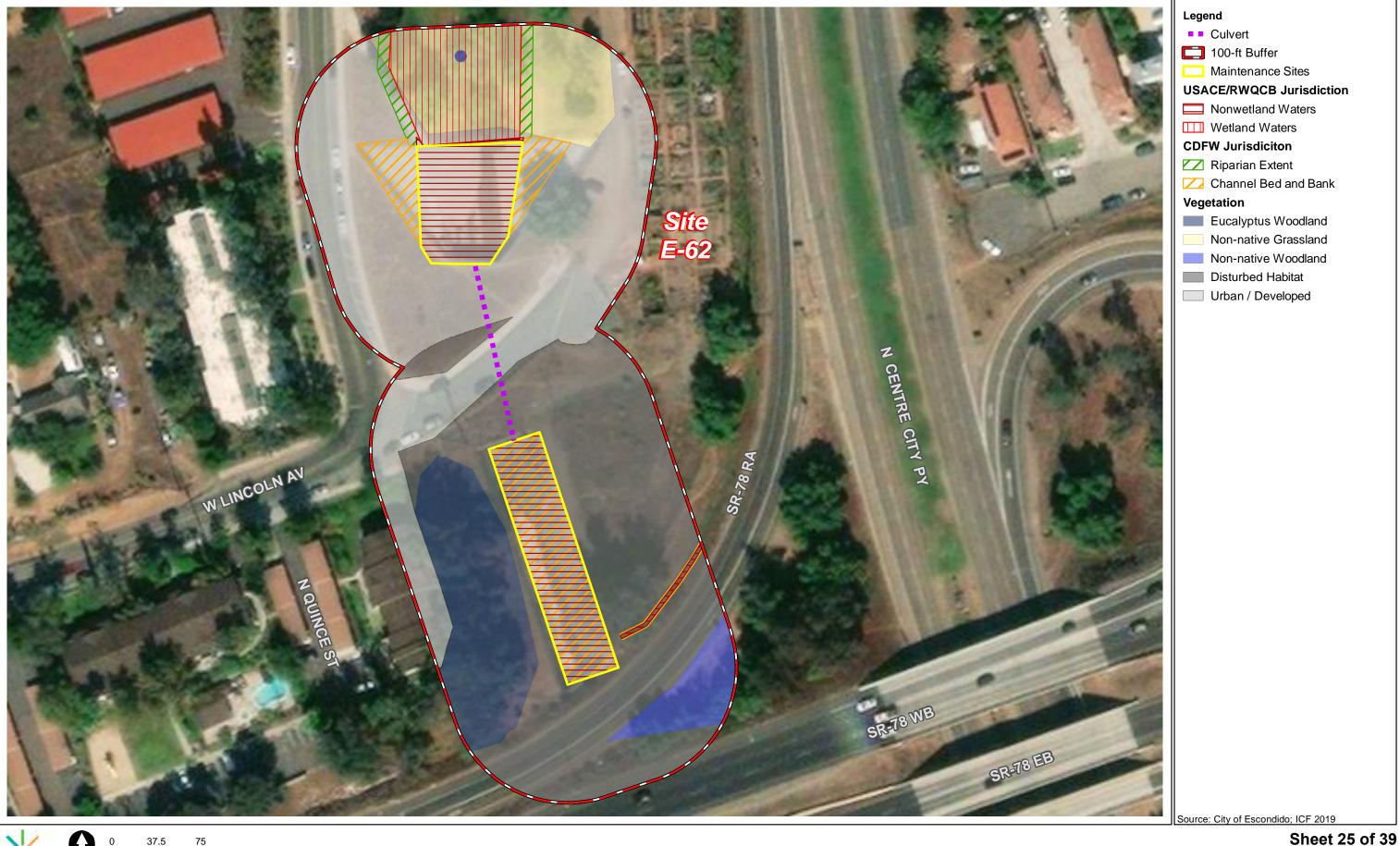
- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

Urban / Developed

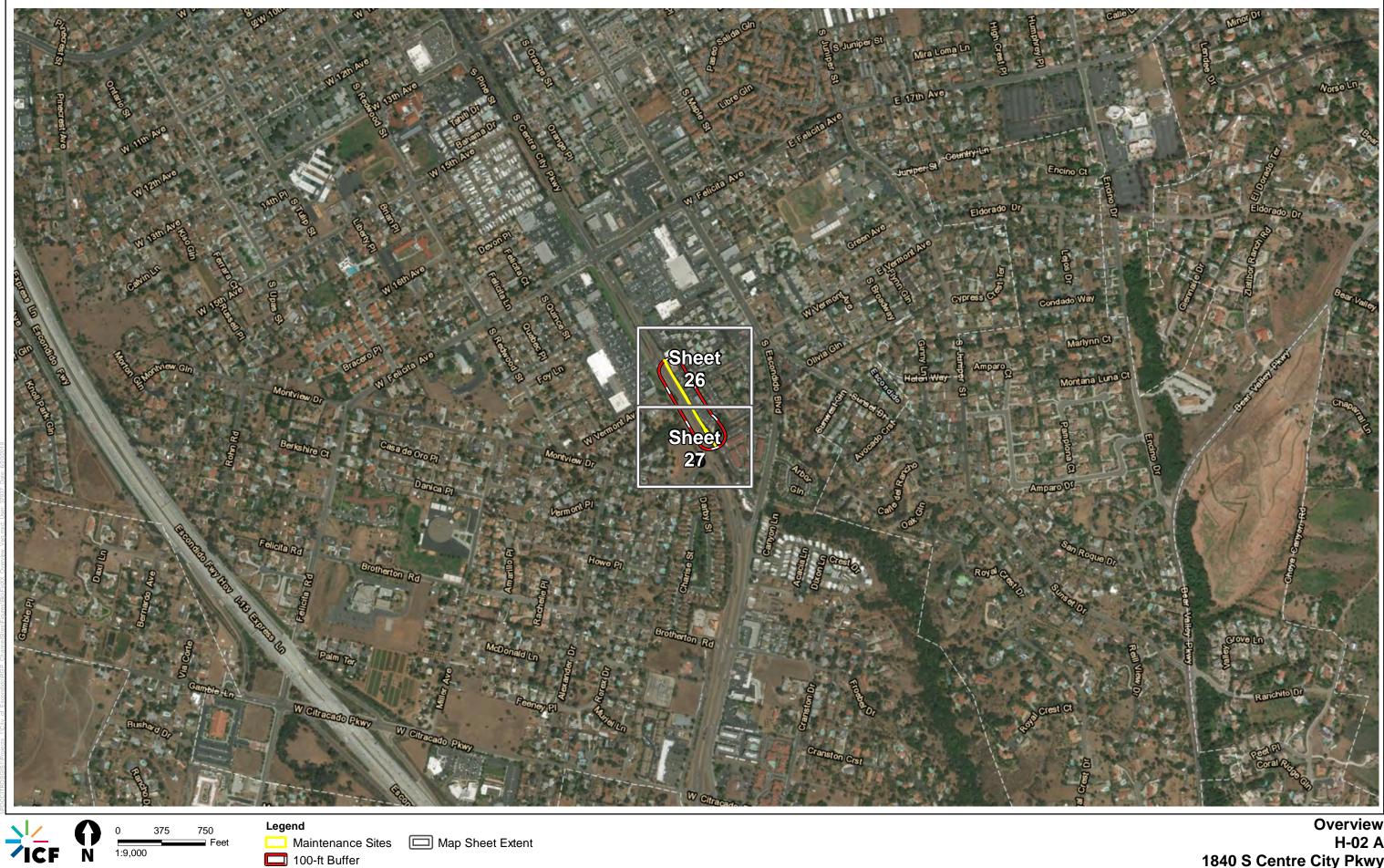
Source: City of Escondido; ICF 2019

Sheet 24 of 39 E-61 Viking Place Escondido RGP 94 Channel Maintenance Project





E-62 Reidy Creek - Lincoln Avenue Escondido RGP 94 Channel Maintenance Project



Dift Buffer

1:9,000

Overview H-02 A 1840 S Centre City Pkwy Escondido RGP 94 Channel Maintenance Project





Outlet

🔲 100-ft Buffer

Current RGP Maintenance Footprints

# USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW** Jurisdiciton

- Z Riparian Extent
- Channel Bed and Bank

# Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 26 of 39 H-02 A 1840 S Centre City Pkwy Escondido RGP 94 Channel Maintenance Project





- Inlet
- Outlet
- 100-ft Buffer
- Current RGP Maintenance Footprints
- Extended Maintenance Site
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters

# **CDFW Jurisdiciton**

- Z Riparian Extent
- Z Channel Bed and Bank

# Vegetation

- Unvegetated Channel
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 27 of 39 H-02 A 1840 S Centre City Pkwy Escondido RGP 94 Channel Maintenance Project



750 Teet 375 1:9,000

🔲 100-ft Buffer

Maintenance Sites Map Sheet Extent

Overview H-14 Miller Ave (2) Escondido RGP 94 Channel Maintenance Project



# 37.5 75

#### Legend

- Culvert
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

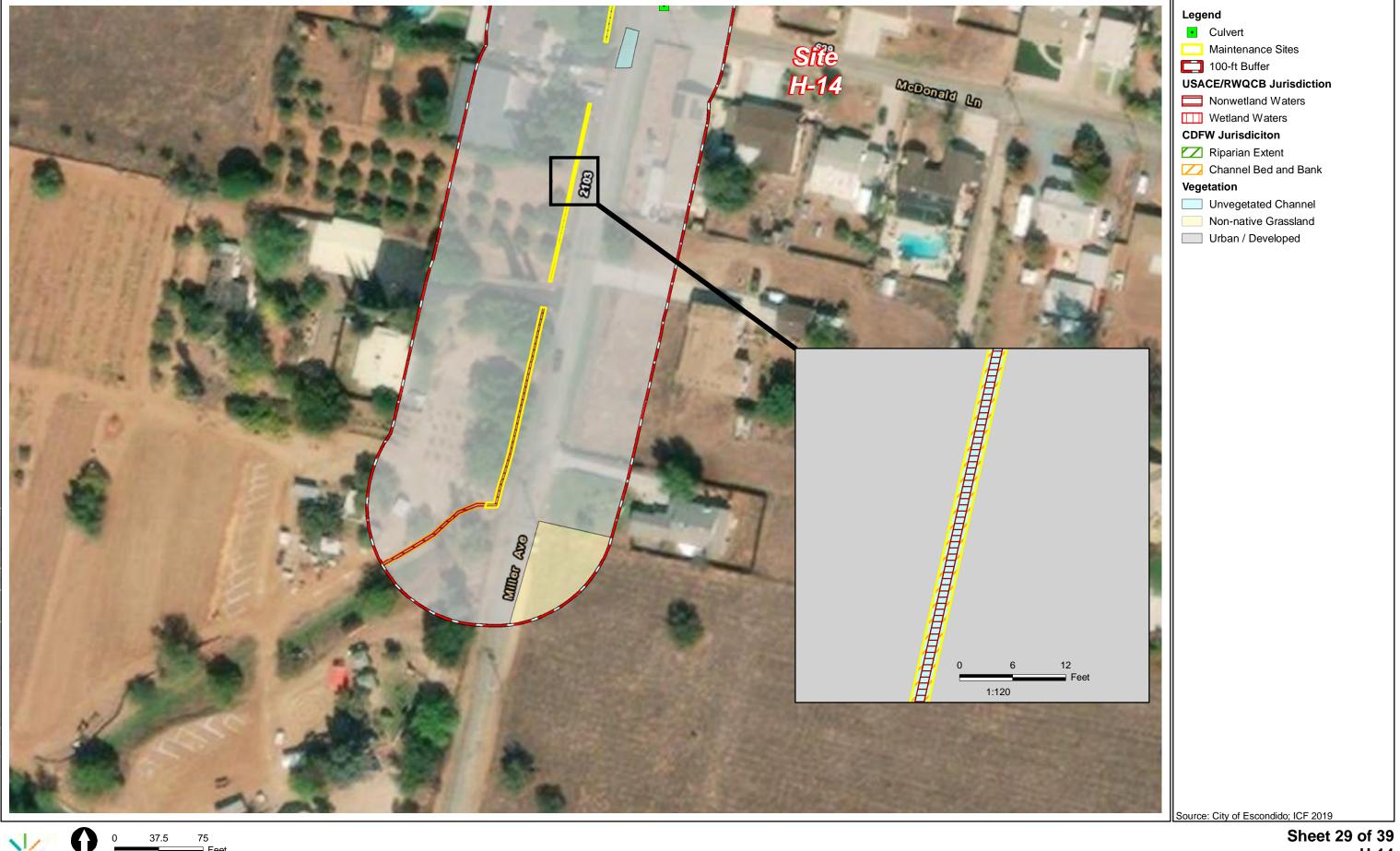
- **Kiparian Extent**
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

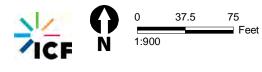
Sheet 28 of 39 H-14 Miller Ave (2) Escondido RGP 94 Channel Maintenance Project





H-14 Miller Ave (2) Escondido RGP 94 Channel Maintenance Project





- Outlet
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

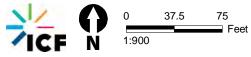
# Vegetation

- Diegan coastal sage scrub
- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 30 of 39 H-15 Sierra Linda **Escondido RGP 94 Channel Maintenance Project** 





- Wetland Sample Point
- Outlet
- 100-ft Buffer
- Maintenance Sites

# USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW** Jurisdiciton

- Z Riparian Extent
- Channel Bed and Bank

# Vegetation

- Diegan coastal sage scrub
- Southern Riparian Scrub
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 31 of 39 H-16 **Concerto and Beethoven Escondido RGP 94 Channel Maintenance Project** 





- Wetland Sample Point
- Outlet
- 100-ft Buffer
- Maintenance Sites

# **USACE/RWQCB** Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

# Vegetation

- Emergent Wetland
- Southern Arroyo Willow Riparian Forest
- Non-native Grassland
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 32 of 39 H-17 **Bear Valley Pkwy** Escondido RGP 94 Channel Maintenance Project

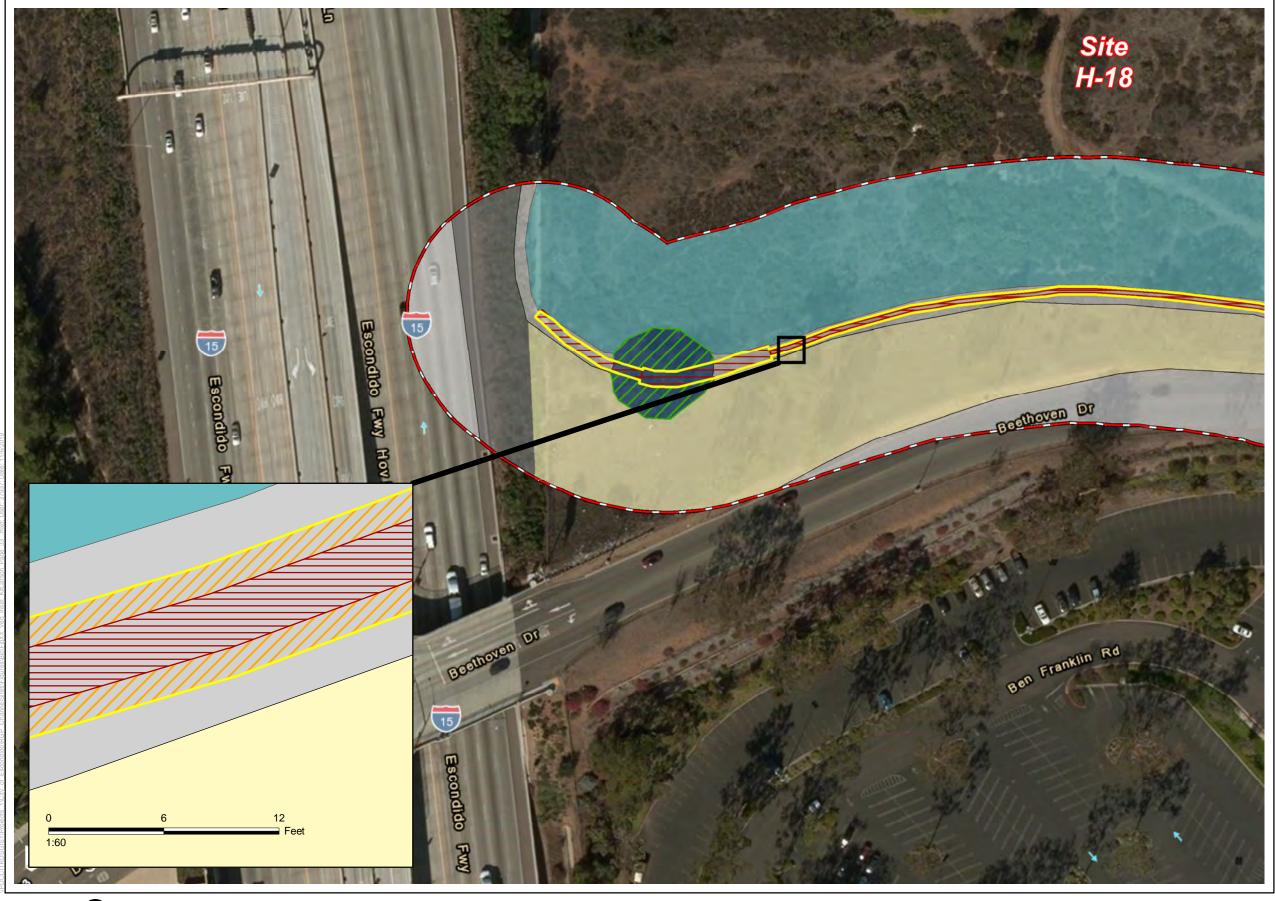






Maintenance Sites Map Sheet Extent

Overview H-18 Kit Carson Bike Trail Escondido RGP 94 Channel Maintenance Project



#### 37.5 75 1:900

#### Legend

Maintenance Sites

100-ft Buffer

USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Southern Willow Scrub
- Diegan Coastal Sage Scrub
  - Non-native Grassland
- Disturbed Habitat
- Urban / Developed

Source: City of Escondido; ICF 2019

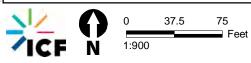
Sheet 33 of 39 H-18 Kit Carson Bike Trail **Escondido RGP 94 Channel Maintenance Project** 





H-18 Kit Carson Bike Trail **Escondido RGP 94 Channel Maintenance Project** 





Inlet

- Outlet
- 100-ft Buffer
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters

# **CDFW Jurisdiciton**

- Z Riparian Extent
- Z Channel Bed and Bank

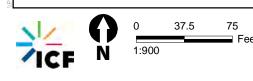
# Vegetation

- Coast Live Oak Woodland
- Southern Willow Scrub
- Disturbed Habitat
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 35 of 39 H-19 **Encino and Amparo** Escondido RGP 94 Channel Maintenance Project





H-20 Sunset and Bear Valley Escondido RGP 94 Channel Maintenance Project





Sheet 37 of 39 H-21 Via Rancho Pkwy and Sunset Drive Escondido RGP 94 Channel Maintenance Project

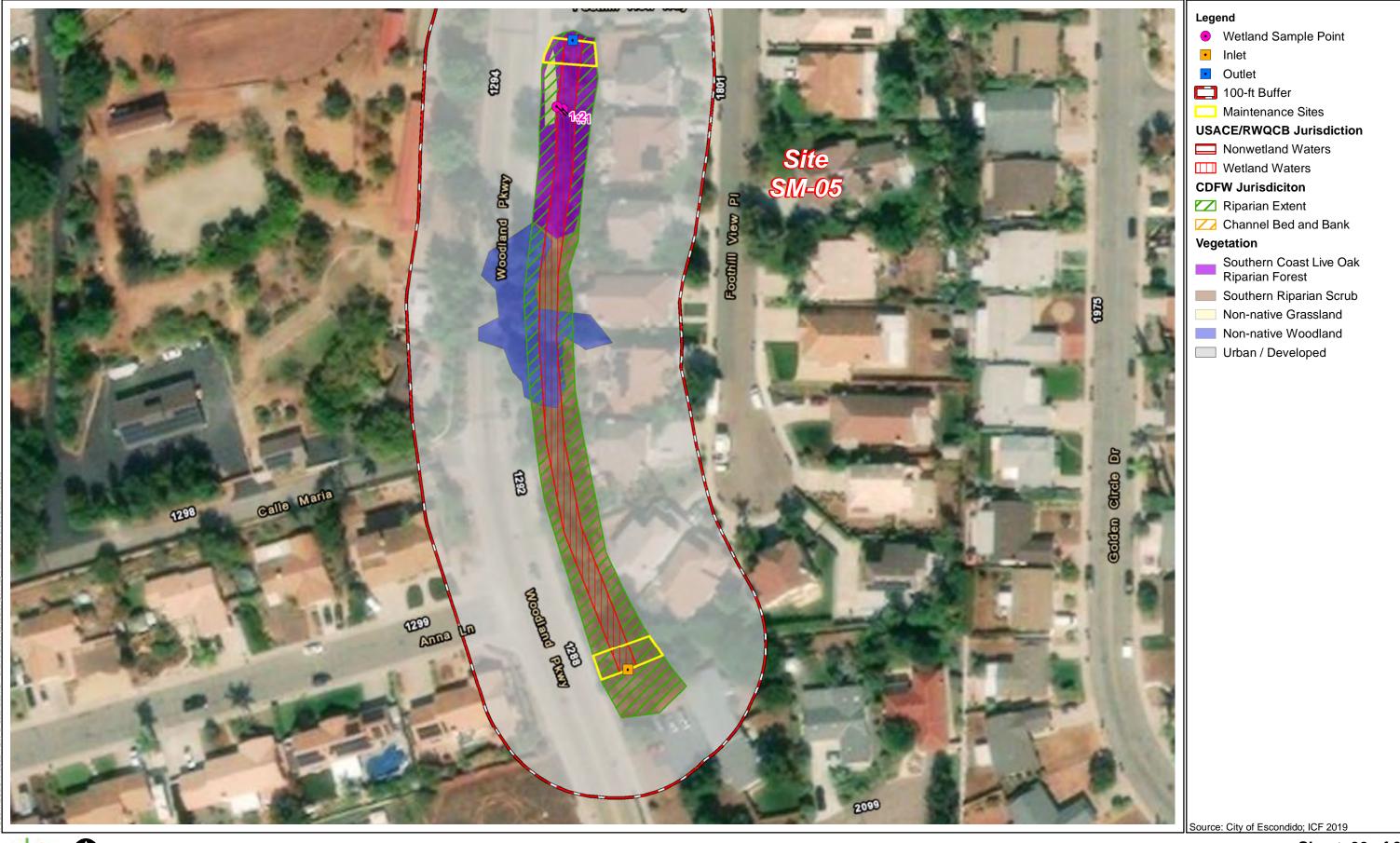


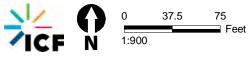
Woodland Parkway Escondido RGP 94 Channel Maintenance Project





Sheet 38 of 39 SM-05 **Woodland Parkway Escondido RGP 94 Channel Maintenance Project** 





Sheet 39 of 39 SM-05 **Woodland Parkway Escondido RGP 94 Channel Maintenance Project** 

#### TABLE 2-1. PROPOSED PROJECT SITE LOCATIONS AND PROPOSED ACTIVITIES

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access					
New Sites	New Sites									
E-48	W 4th Ave	Earthen	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>					
E-49	W 5 <sup>th</sup> and Pine	Earthen	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>					
E-50	W 5th Ave	Earthen	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>					
E-51	800 W Valley	Earthen	Earthen Segment – Handwork Only	Removal of nonnative vegetation; trimming of native trees/shrubs as needed.	<ul> <li>No equipment proposed.</li> <li>Use of both manual and mechanical hand tools only to cut and remove nonnative vegetation.</li> <li>Native trees and shrubs that inhibit flows will be trimmed.</li> <li>Newly constructed access ramps will be used to access site.</li> </ul>					
E-52	Rock Springs	Earthen & Concrete	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>					

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
E-53	Reidy Creek: Rincon to Pleasantwood	Earthen	15 feet from concrete apron (full bank width) 10-foot wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel Handwork – trimming of native trees/shrubs as needed.	<ul> <li>Equipment to be within concrete portion of channel to clear 15 feet from apron.</li> <li>Dirt access road along eastern side of channel to be used to access pilot channel and scoop out sediment using backhoe or excavator.</li> <li>Staging equipment on channel bank.</li> <li>Native vegetation will be trimmed using hand tools within pilot channel area to allow access.</li> <li>Sediment and debris spoil pile will be placed temporarily outside of jurisdictional waters within access road.</li> </ul>
E-54	Reidy Creek – Morning View	Earthen	E-54-A (Sheet 9) $-$ 20 feet long x 10 feet wide E-54-B $-$ thru E- 54-I; E-54-K (Sheets 10 $-$ 12) - 10 feet long x 5 feet wide E-54-J (Sheet 12) $-$ 30 feet long x 5 feet wide (due to slope and trees in flow path) Handwork/Tree Removal for full site	At outlets – Remove accumulated sediment Handwork – Removal of nonnative vegetation; trimming of native trees/shrubs as needed.	<ul> <li>Access from cul-de-sacs or disturbed areas adjacent to the creek.</li> <li>Equipment will be staged on bank and within ordinary high-water mark to access outlet. Use of backhoe or excavator to unclog outlet and create pilot channel downstream of outlets.</li> <li>Use of both manual and mechanical hand tools only to cut and remove nonnative vegetation.</li> <li>Native trees and shrubs that inhibit flows will be trimmed.</li> </ul>
E-55	HARRF	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	<ul> <li>Equipment will be staged on developed areas adjacent to channel.</li> <li>May need to have equipment within channel to clear downstream segment.</li> </ul>
E-56	McLeod Park	Earthen & Asphalt	Full Site	Remove accumulated sediment and weed removal	• Equipment to be within channel to remove and restore drainage ditch to original contours.

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
E-57	Bienvenido and Vista	Earthen	20 feet from headwall x full bank width	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
E-58	Reidy Creek Golf Course	Earthen	10 feet total wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel Handwork – trimming of native trees/shrubs as needed.	<ul> <li>Equipment to be within channel to clear for pilot channel.</li> <li>Native vegetation will be trimmed using hand tools within pilot channel area to allow access for equipment</li> <li>Access routes as shown on figures will be trimmed using hand tools to allow access out of channel to remove sediment and debris.</li> <li>Sediment and debris will be removed from site. If needed, temporarily spoil pile will be located outside of jurisdictional waters within the golf course.</li> </ul>
E-59	E. Side CCP and 13th	Earthen	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
E-60	Oak Valley Lane	Earthen	20-foot radius from headwall	One willow tree to be removed. Remove accumulated sediment and herbaceous vegetation. Handwork – trimming of native trees/shrubs as needed.	<ul> <li>One-time willow tree will be fully removed (root and all). Willow directly downstream of outlet and blocking flow.</li> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop out sediment to unclog outlet.</li> <li>Hand tools to trim native shrubs and trees, as needed.</li> </ul>
E-61	Viking Place	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Equipment will be staged on developed areas adjacent to channel.

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
E-62	Reidy Creek – Lincoln Ave	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Equipment will enter the concrete channel to conduct maintenance activities.
H-14	Miller Ave	Earthen	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
H-15	Sierra Linda	Earthen	20 feet from headwall	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
H-16	Concerto and Beethoven	Earthen	Access to outlet and 20 feet from headwall	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet and create pilot channel.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
H-17	Bear Valley Pkwy	Earthen	20 feet from headwall x 5 feet wide	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
H-18	Kit Carson Bike Trail	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel Portion of concrete is broken and requires repairs.	<ul> <li>Equipment/temporary spoil piles within trail/disturbed areas.</li> <li>A bobcat will drive to the downstream end of the concrete channel and push accumulated sediment upstream to temporary spoil pile location.</li> <li>Native tree trimming as needed to allow equipment access in channel.</li> </ul>

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
H-19	Encino and Amparo	Earthen	Full Site	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> <li>All native trees (willows) occurring within the basin will be removed (root and all).</li> </ul>
H-20	Sunset and Bear Valley	Earthen	30 feet from headwall	Remove accumulated sediment and weed removal	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop out sediment to unclog outlet.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> </ul>
H-21	Via Rancho Pkwy and Sunset Drive	Earthen	15 feet x 3 feet wide from small outlet. Removal of 3–4 Willow Trees	Removal of 3–4 willow trees	<ul> <li>One-time willow tree removal. Willows will be cut at base and roots left in place. Hand tools used for removal. One willow blocking access to the site, 2- 3 willows have large branches that are perpendicular to the drainage flow and has the potential to act as a debris jam during storm events.</li> <li>Equipment will need to be within wetlands to access outlet area. Backhoe or excavator will be used to scoop out sediment to unclog outlet and create pilot channel to larger drainage.</li> <li>Hand tools to trim native shrubs and trees, as needed.</li> </ul>
SM-05	Woodland Pkwy	Earthen	20 feet from each headwall x width of bank	Remove accumulated sediment and weed removal Remove dead vegetation/debris throughout entire drainage	<ul> <li>Equipment will be staged on the street and backhoe or excavator will be used to scoop out sediment to unclog inlets and outlets.</li> <li>No dragging of equipment along banks and no equipment in channel.</li> <li>Native tree trimming as needed to allow equipment access.</li> <li>Manual hand tools will be used to remove dead vegetation or debris that may be blocking flow.</li> </ul>

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access				
Extensior	Extension of Existing Site								
H-02 A	1840 S Centre City Pkwy	Sediment out of channel for clean excavation							
Mitigatior	Site to Compens	sate for Impacts	s from Projects Ab	ove					
N/A	/A Kit Carson Park Downstream Earthen ditch Full area will be enhanced		Enhancement would include removal of nonnative vegetation. Rehabilitation areas will require planting and seeding of native vegetation.	<ul> <li>Temporary fences may be needed to restrict access during restoration activities for public safety and the protection of site resources.</li> <li>Nonnative weed removal will consist of hand removal, cutting or mowing, or chemical herbicide application</li> <li>Invasive tree removal will require tree trunks to be cut to about 12 inches above ground.</li> <li>Staging will occur adjacent to the mitigation site along disturbed areas or the Kit Carson parking lot. Access into the mitigation site will occur by foot.</li> </ul>					

#### New Project Activities to Be Included in RGP 94

Additional O&M activities beyond the scope of what was approved in 2013 MND ENV 12-0001 and 2014 Addendum ENV 12-0001 are proposed for all 87 maintenance sites to be included in the amended RGP (i.e., both new facility locations and the currently covered facility locations). These new O&M activities are further described below.

Similar to the current O&M activities for currently covered maintenance sites, the City has made great efforts at each facility to constrain the extent and type of impact that would occur. In natural facilities with native vegetation growing in earthen-bottom channels, the City reviewed each site and minimized impacts to trimming the understory (trimming/clearing of vegetation under the tree canopy), limited the scale of impacts to the smallest radius necessary to allow for positive flow dependent on the size of the outlet, and/or impacting only the minimal low-flow channel. The City would remove native riparian trees only for the new sites that have identified tree removal listed in Table 2-1 above. In all other new sites, the City would avoid removal of native riparian trees and shrubs, and conduct only minor trimming of lower branches where necessary to maintain access and flow. Maintenance activities conducted within serviceable concrete-lined features (i.e., features that have intact concrete linings, do not support mature native trees or shrubs, and can therefore be maintained, through removal of sediment, debris, and opportunistic herbaceous vegetation, without alterations to the channel bed/bank or removal of established habitat) would not be limited to an acreage threshold, as no adverse or significant impacts would result from these activities. The activities are identified in Table 2-1 above. O&M activities are necessary to ensure proper function and integrity of the channel system and structures, and the activities do not otherwise alter or expand the existing system.

#### Repairs/Maintenance of Existing Hardscape Structures

The City proposes to include the repairs of existing concrete aprons and/or concrete-lined drainages as part of the RGP. Repairs would include minor repairs to segments of concrete-lined channels or riprap-lined segments that would not result in the modification of the character, size, or scope of the original fill design. Additionally, these repairs would be limited to either current or new RGP sites. Larger drainages, such as Indian Wells or Escondido Creek, would not be included/covered.

Only one facility location, H-18 Kit Carson Bike Trail, is currently noted as needing repairs to a segment of its concrete channel. However, the City would like the ability to complete these types of repairs to any hardscape facility included in the RGP.

Work activities would be conducted based on a schedule that considers the needs of each site along with staff and budget allocations. Most work activities generally would be completed within 2 to 5 days.

#### Equipment and Maintenance Frequency

A variety of equipment would be utilized to complete O&M activities, including manual and mechanical hand tools, graders, backhoes, excavators, skid steers, and front-end loaders. Table 2-2 provides examples of equipment that could be used to conduct work activities.

Type of Equipment	Equipment Examples
Manual hand tools	Rakes, shovels, loppers (any non-mechanical hand tools)
Mechanical hand tools	Chain saws, string trimmers, hedge trimmers
Heavy Mechanical Equipment	Grader, backhoe, excavator, skid steer, front-end loader, bobcat

#### TABLE 2-2. PROPOSED EQUIPMENT TYPES AND EXAMPLES

Work activities would be conducted approximately annually or biannually as staff and budget allocations allow at each location. Most work activities will be conducted and completed within 2-5 days, but depending on the activity the work could last up to 45 days.

#### Stream Diversions and Best Management Practices

Stream diversions and Best Management Practices (BMPs) would be implemented for all facility locations during maintenance activities. If water is present during the time of the maintenance activity, flows/ponded water would be dammed by the installation of either gravel or sediment bags. Due to the varying channel widths, implementation of a coffer dam is not possible at all locations. Therefore, work within wetted portion of some channels may be needed. If work is conducted within the wetted portion of a channel, the City would employ a series of check dams downstream of the maintenance location to reduce flow velocities and allow any suspended particulates to settle out of the water column. Additionally, a pump diversion system may be used when appropriate.

If streams are dry, BMPs in the form of straw wattles would be used to prevent sediment or debris from entering downstream waters.

#### Staging Areas

Equipment staging and stockpiling of spoils would not occur within the limits of jurisdictional waters. Equipment would be staged on existing developed surface roads, lots, or disturbed habitat, when feasible. Sediment, debris, and vegetative material would be removed from immediate area; stockpiled within surface roads, lots, or disturbed habitat; and then moved off-site to City Public Works facilities. Spoils would be disposed of appropriately or reused for other projects throughout the city, where appropriate.

### IV. ANTICIPATED PUBLIC MEETINGS/HEARINGS

Adoption of the Supplemental IS/MND will not require City Council adoption. Environmental documents that are not associated with a specific project that would require Planning Commission or City Council now can be adopted by the Zoning Administrator at a public meeting (Section 33-1319(b). A tentative date for consideration by the Zoning Administrator has not yet been set. After the 30-day public review period has ended, a Zoning Administrator meeting date will be scheduled to consider the Final IS/MND and any comments received. The Zoning Administrator schedules Public Hearings on an as needed basis. The agenda for Zoning Administrator meetings are posted at least 72 hours prior to the meeting and can be found at the following website: https://www.escondido.org/zoning-administrator.aspx.

## v. ENVIRONMENTAL SETTING

### **City of Escondido**

The City of Escondido is approximately 37.5 square miles and is located in northern San Diego County, approximately 30 miles north of downtown San Diego and 18 miles east of the Pacific Ocean. The city was incorporated in 1888 and became an agricultural center for grapes, citrus, and later for avocados. Escondido is now known as inland northern San Diego County's center for retail, services, health care and cultural facilities while maintaining a feel of small-town living (City of Escondido 2012). Escondido is bounded on the north by the unincorporated communities of Valley Center and Hidden Meadows, on the west by the city of San Marcos, on the south by Lake Hodges and the City of San Diego, and on the east by unincorporated San Diego County.

### Location and Surrounding Land Uses

The proposed project would occur at 87 total maintenance sites throughout the City of Escondido. Figures 2-1 and 2-2 depict the regional location and project vicinity as well as the 63 facilities covered under the current RGP 94 and the 24 newly proposed facilities. The current and proposed facilities are located on privately owned parcels or within City easements or rights-of-way. Access to the facilities is typically gained from the nearest public roadway.

As shown in Figure 2-3, the proposed 24 sites not previously covered under the current RGP 94 are located at various sites within the city, each with different topography, elevation, and setting. Generally, sites are within suburban and urban areas. General Plan Land Uses in the area are mainly Residential (Urban, Suburban, and Estate), Commercial, Planned Office, Public Land/Open Space and Specific Plan Areas (Figure 2-4). Surrounding development varies in size, type, and age. Surrounding development includes urban and suburban residences, commercial buildings and shopping centers, schools, parks and open space, roadways, among other development types.

Facilities occur in and appurtenant to native, naturalized, and developed channels, varying in size, shape, habitat composition, and habitat quality. Natural communities and other land cover types in the proposed project area are further discussed in Section 3 of this document, including a tabular summary of the habitat types occurring in the area.

### VI. REGULATORY SETTING

Applicable regional planning documents include the General Plan of the City of Escondido (2012) and the City of Escondido Draft Multiple Habitat Conservation Program (MHCP) Subarea Plan (City of Escondido 2001) under the Final MHCP (San Diego Association of Governments 2003).

The Draft Escondido Subarea Plan documents core conservation areas, known as Habitat Management Plan (HMP) Areas (Figure 2-5). The Draft Escondido Subarea Plan has not been adopted. Portions of proposed sites E-52 and SM-05 occur within HMP areas; these areas are subject to the conservation measures set forth by the City's Draft Subarea Plan, which includes up to 90 to 100 percent species conservation and no net loss of wetlands.

Various regulations govern jurisdictional wetlands and non-wetland waters of the U.S. and State. Moreover, the federal and state agencies that govern activities within these resources must ensure that the activities they authorize will not adversely affect other regulated resources that can occur within jurisdictional waters. As applicable to the project, these other regulated resources include federally and state-listed species, migratory birds, and potential historic properties. Additionally, ordinances promulgated by the City of Escondido protect certain resources known to occur within the project study area. Therefore, as applicable to the project, jurisdictional waters (including wetlands and other aquatic environments/habitats), and the protected species and potential historic properties that may occur within or adjacent to these waters, are regulated under the following federal and state laws, and local ordinances.

#### **Federal Regulations**

#### Clean Water Act

Pursuant to Section 404 of the Clean Water Act (CWA), the U.S. Army Corps of Engineers (USACE) is authorized to regulate any activity that would result in the discharge of dredged or fill material into jurisdictional waters of the U.S., which include those waters listed in 33 Code of Federal Regulations Part 328 (Definitions). USACE, with oversight by the U.S. Environmental Protection Agency (USEPA), has the principal authority to issue CWA Section 404 Permits.

Pursuant to Section 401 of the CWA, the Regional Water Quality Control Board (RWQCB) (Region 9) certifies that any discharge into jurisdictional waters of the U.S. will comply with state water quality standards. RWQCB, as delegated by USEPA, has the principal authority to issue a CWA Section 401 water quality certification or waiver.

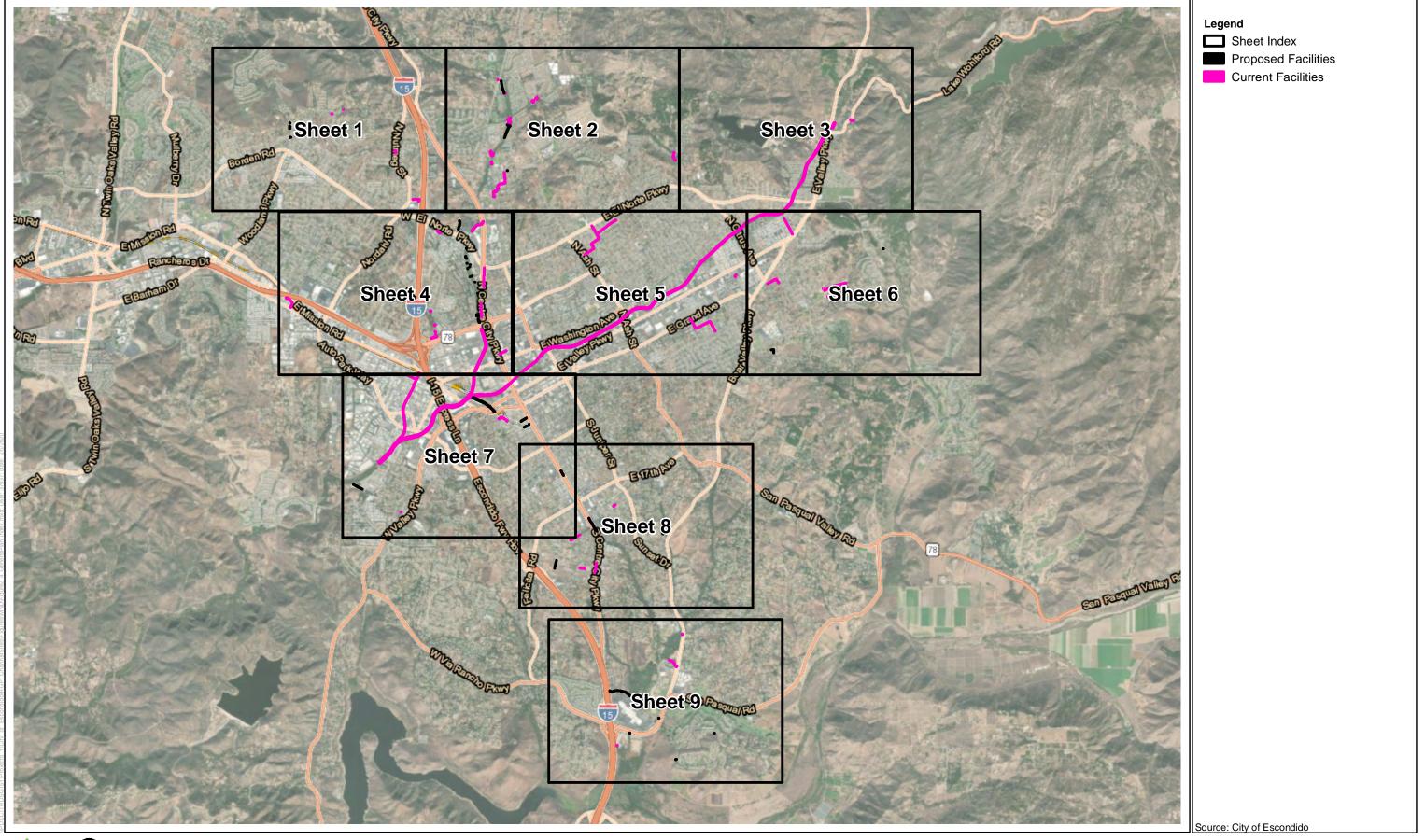
#### Endangered Species Act

The U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) administer the federal Endangered Species Act (ESA). Enacted in 1973, the ESA provides for the conservation of threatened and endangered species and their ecosystems. Section 9 of the ESA prohibits the take of any fish or wildlife species listed under the ESA as endangered and most species listed as threatened.<sup>1</sup> Take, as defined by the ESA, means "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Harm is defined as "any act that kills or injures the species, including significant habitat modification." For threatened and endangered plant species "under federal jurisdiction" (i.e., on federal land). The ESA includes mechanisms that provide exceptions to the Section 9 take prohibitions. These are addressed in the ESA under Section 7 and 10(a).

### Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918, as amended, implements various treaties and conventions between the United States and Canada, Japan, Mexico, and the former Soviet Union for the protection of migratory birds. Under the MBTA, taking, killing, or possessing migratory birds is unlawful as is taking of any parts, nests, or eggs of such birds (16 United States Code 703). The definition of taking is different under MBTA from the definition under the ESA and includes only the death or injury of individuals of a migratory bird species or its eggs. Take under the MBTA does not include the concepts of harm and harassment as defined by the ESA. It is also important to note that the MBTA defines migratory birds broadly; most of the bird species documented from the project

<sup>&</sup>lt;sup>1</sup> The protection of threatened species under Section 9 is discretionary through a rule issued under Section 4(d) of the ESA. Until a "4(d) rule" is issued by NMFS, threatened anadromous fish or marine species are not protected by the ESA. By regulation, USFWS automatically affords Section 9 protection to threatened species at the time of listing. These protections later can be modified by USFWS through a 4(d) rule.



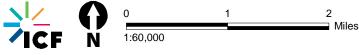


Figure 2-4, Index General Plan Land Use Map **Escondido RGP 94 Channel Maintenance Project** 

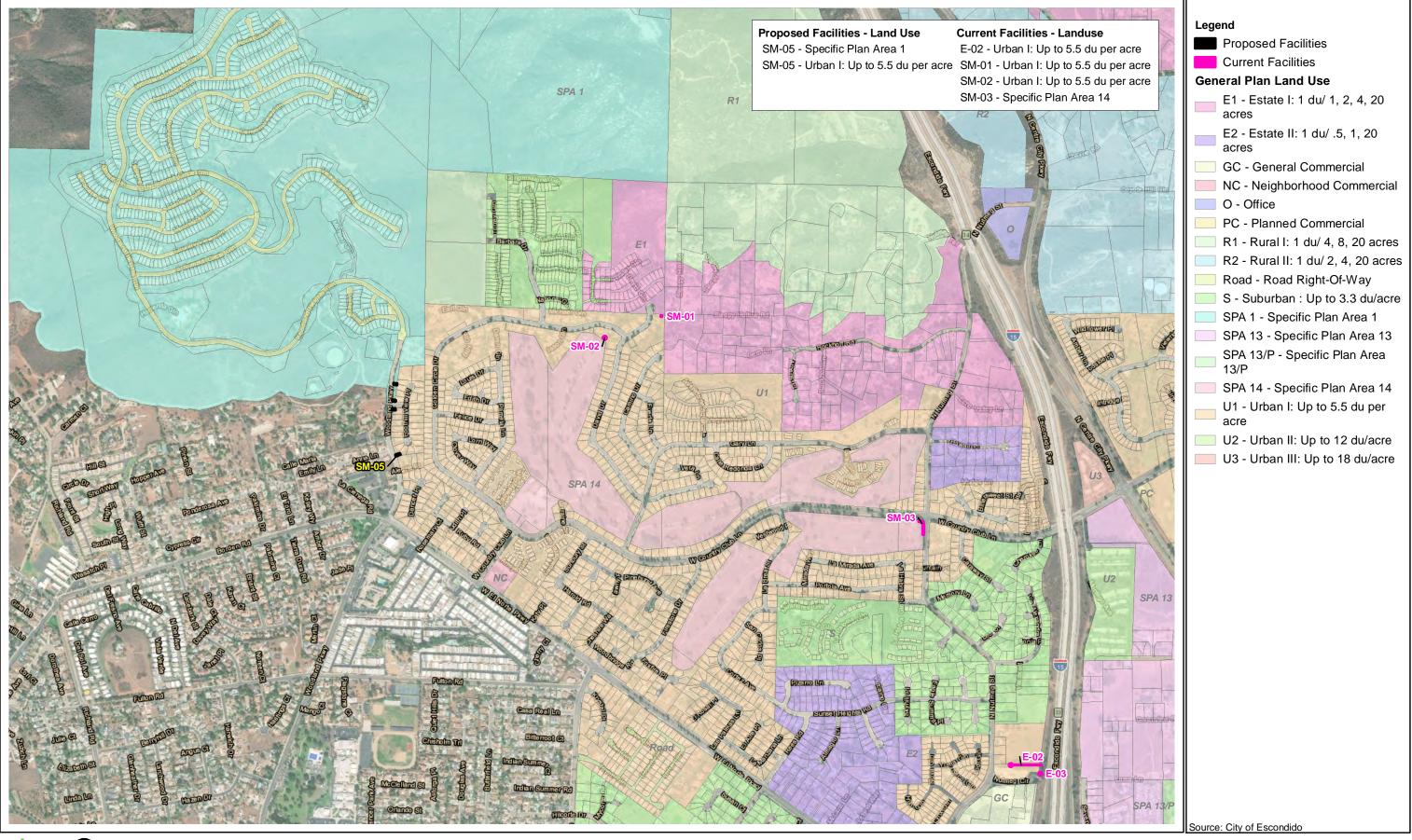
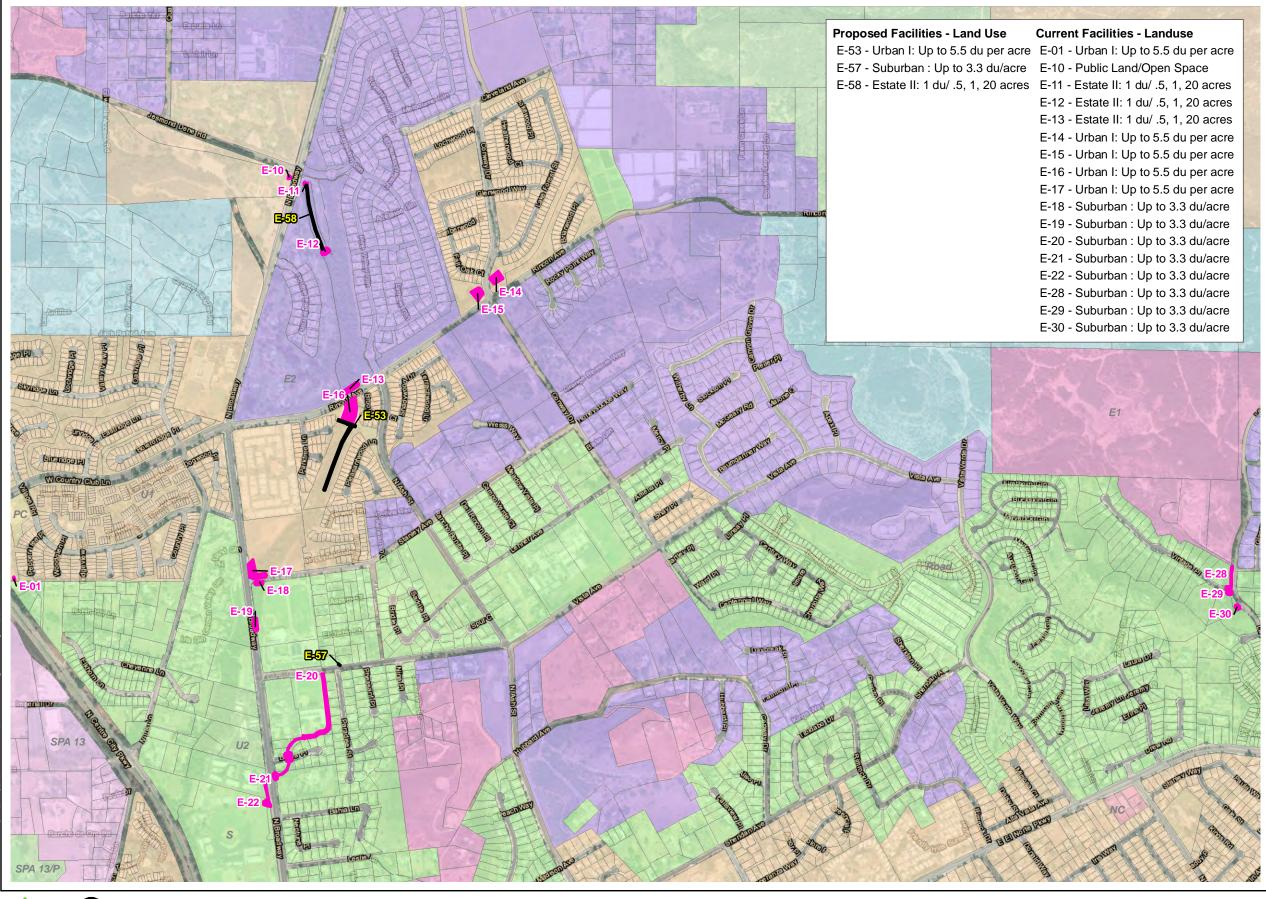


Figure 2-4, Sheet 1 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project** 



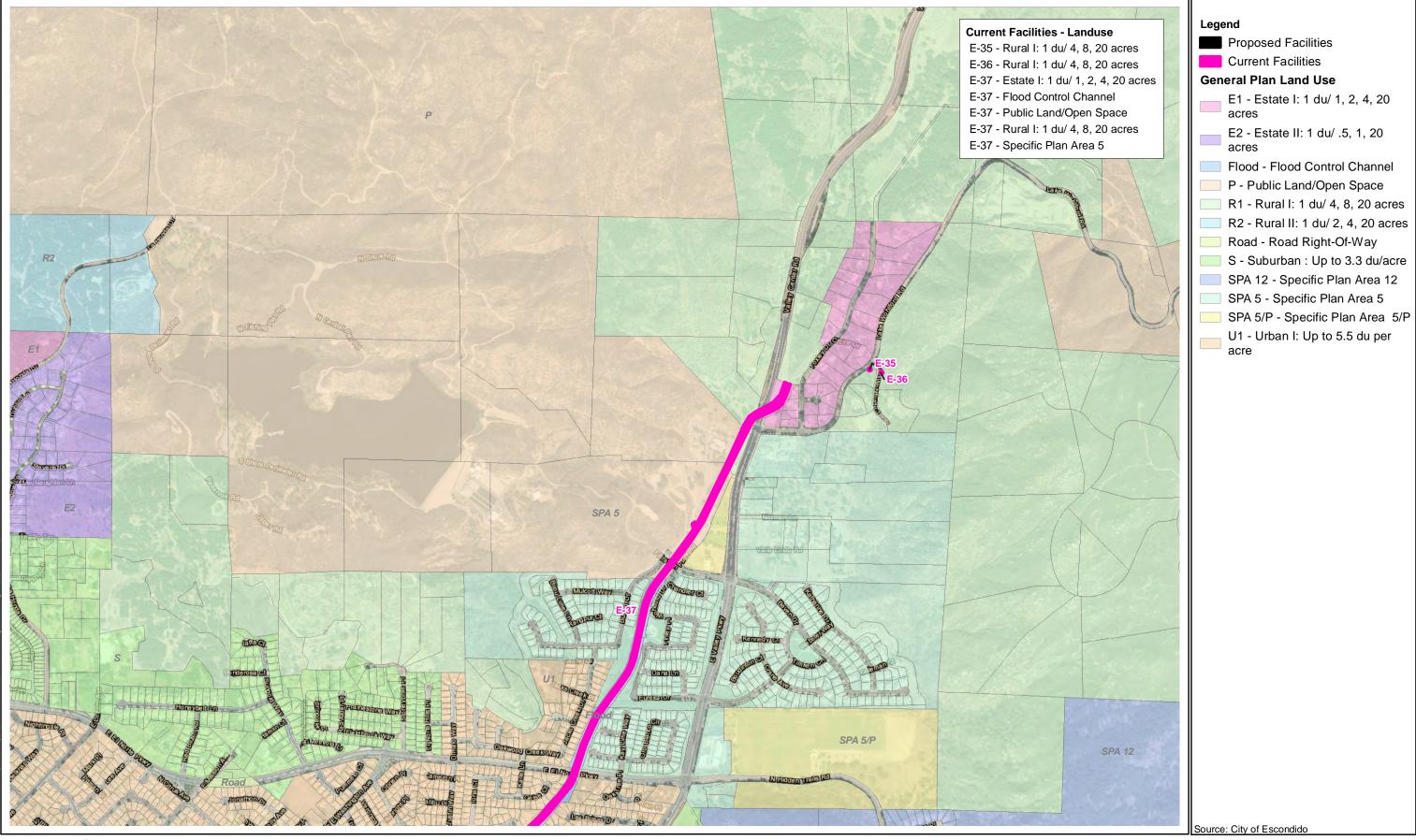
#### 1,000 500 Ν 1:12,000

#### Legend

- Proposed Facilities
- Current Facilities
- **General Plan Land Use** 
  - E1 Estate I: 1 du/ 1, 2, 4, 20 acres
  - E2 Estate II: 1 du/ .5, 1, 20 acres
- NC Neighborhood Commercial
- P Public Land/Open Space
- PC Planned Commercial
- R1 Rural I: 1 du/ 4, 8, 20 acres
- R2 Rural II: 1 du/ 2, 4, 20 acres
- Road Road Right-Of-Way
- S Suburban : Up to 3.3 du/acre
- SPA 13 Specific Plan Area 13 SPA 13/P - Specific Plan Area 13/P
  - U1 Urban I: Up to 5.5 du per acre
- U2 Urban II: Up to 12 du/acre

ource: City of Escondido

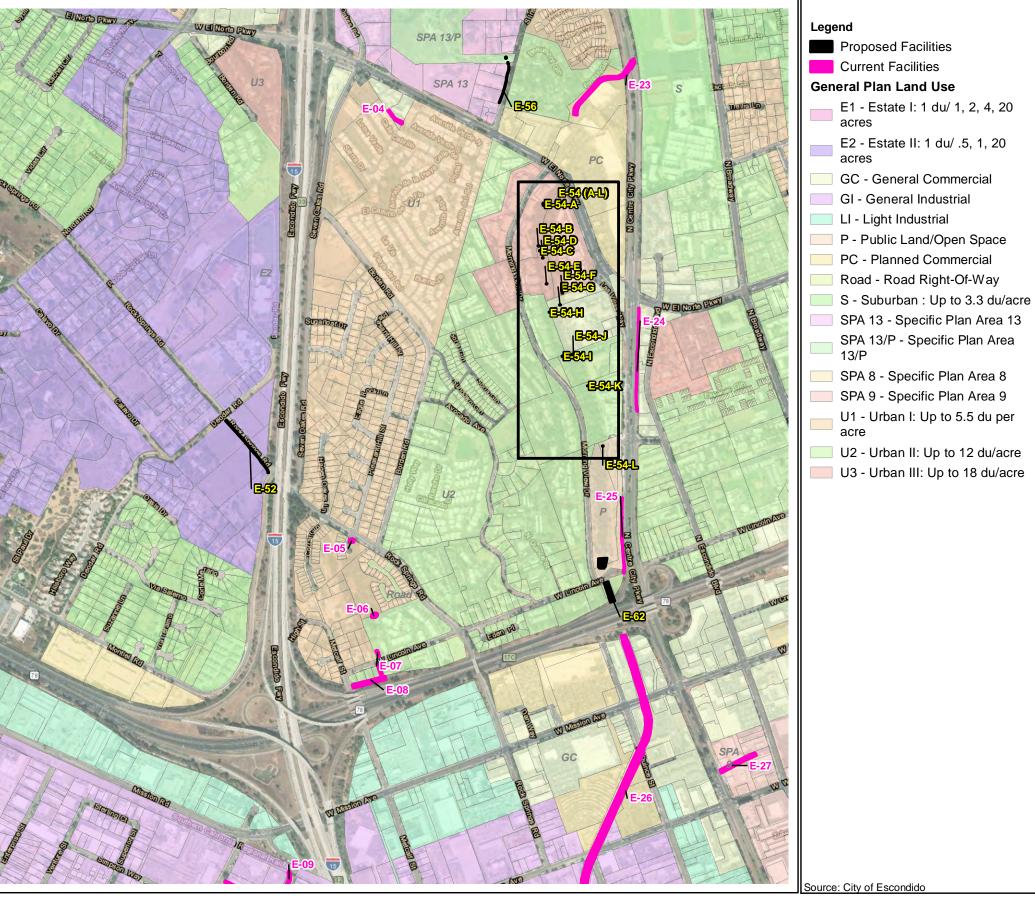
Figure 2-4, Sheet 2 of 9 **General Plan Land Use Map** Escondido RGP 94 Channel Maintenance Proejct



1,000 Feet 500 0 1:12,000 Ν

Figure 2-4, Sheet 3 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project**  Proposed Facilities - Land Use E-52 - Estate II: 1 du/ .5, 1, 20 acres E-04 - General Commercial E-54-A - Urban III: Up to 18 du/acre E-04 - Urban I: Up to 5.5 du per acre E-54-B - Urban III: Up to 18 du/acre E-05 - Urban I: Up to 5.5 du per acre E-54-C - Urban III: Up to 18 du/acre E-06 - Urban I: Up to 5.5 du per acre E-54-D - Urban III: Up to 18 du/acre E-06 - Urban II: Up to 12 du/acre E-54-E - Urban III: Up to 18 du/acre E-07 - Urban II: Up to 12 du/acre E-54-F - Urban III: Up to 18 du/acre E-08 - Urban II: Up to 12 du/acre E-54-G - General Commercial E-54-H - General Commercial E-54-H - Urban II: Up to 12 du/acre E-25 - Public Land/Open Space E-54-I - Urban II: Up to 12 du/acre E-54-J - Urban II: Up to 12 du/acre E-54-K - Urban II: Up to 12 du/acre E-26 - General Industrial E-54-L - Public Land/Open Space E-56 - Specific Plan Area 13 E-56 - Specific Plan Area 13/P E-62 - Public Land/Open Space E-62 - Urban II: Up to 12 du/acre

**Current Facilities - Landuse** E-09 - General Industrial E-23 - Planned Commercial E-25 - Urban II: Up to 12 du/acre E-26 - General Commercial E-26 - Planned Commercial E-27 - Specific Plan Area 9 SM-04 - Light Industrial



500 1,000 Feet **ICF** Ν 1:12,000

E1

SPA 8

Figure 2-4, Sheet 4 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Proejct** 

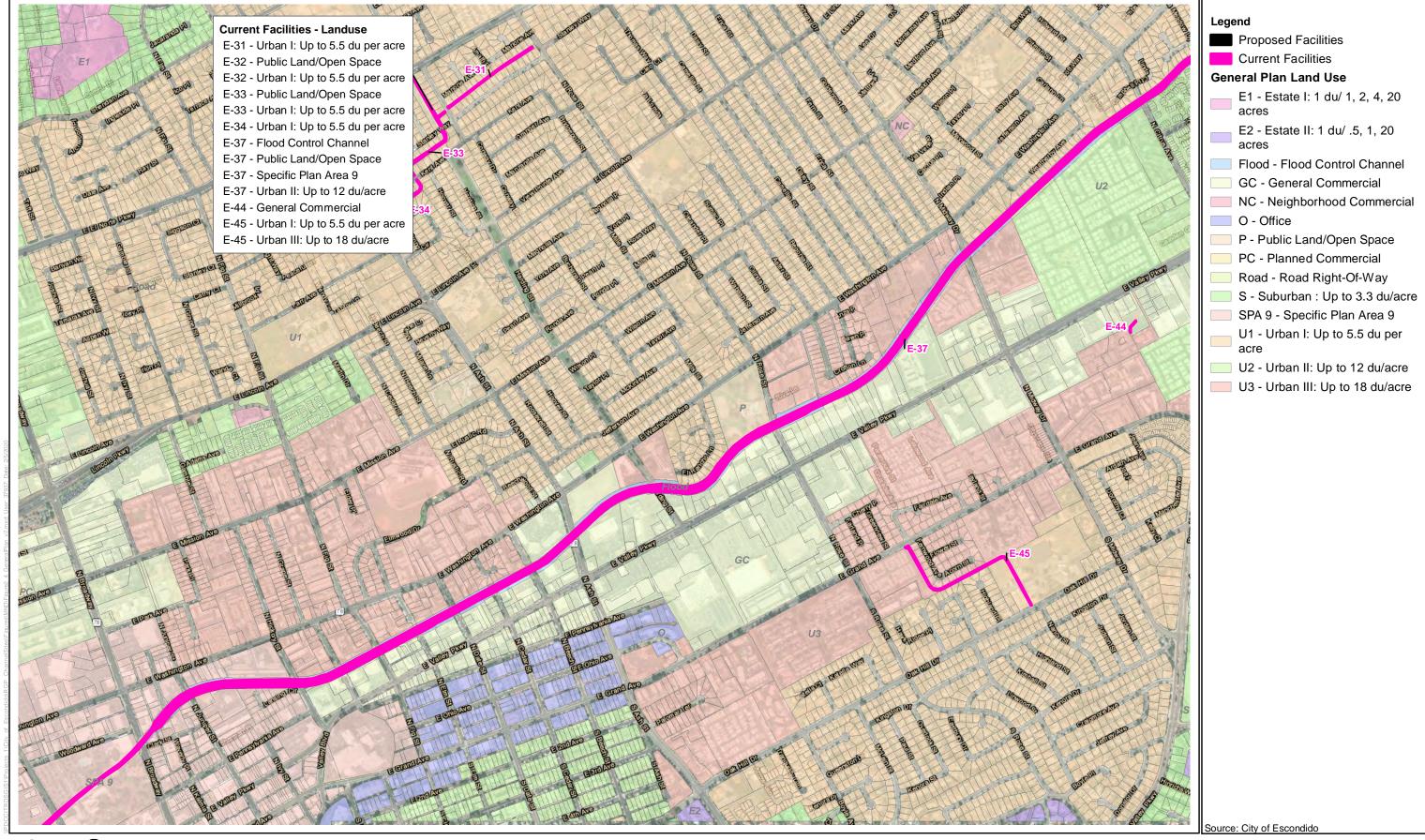
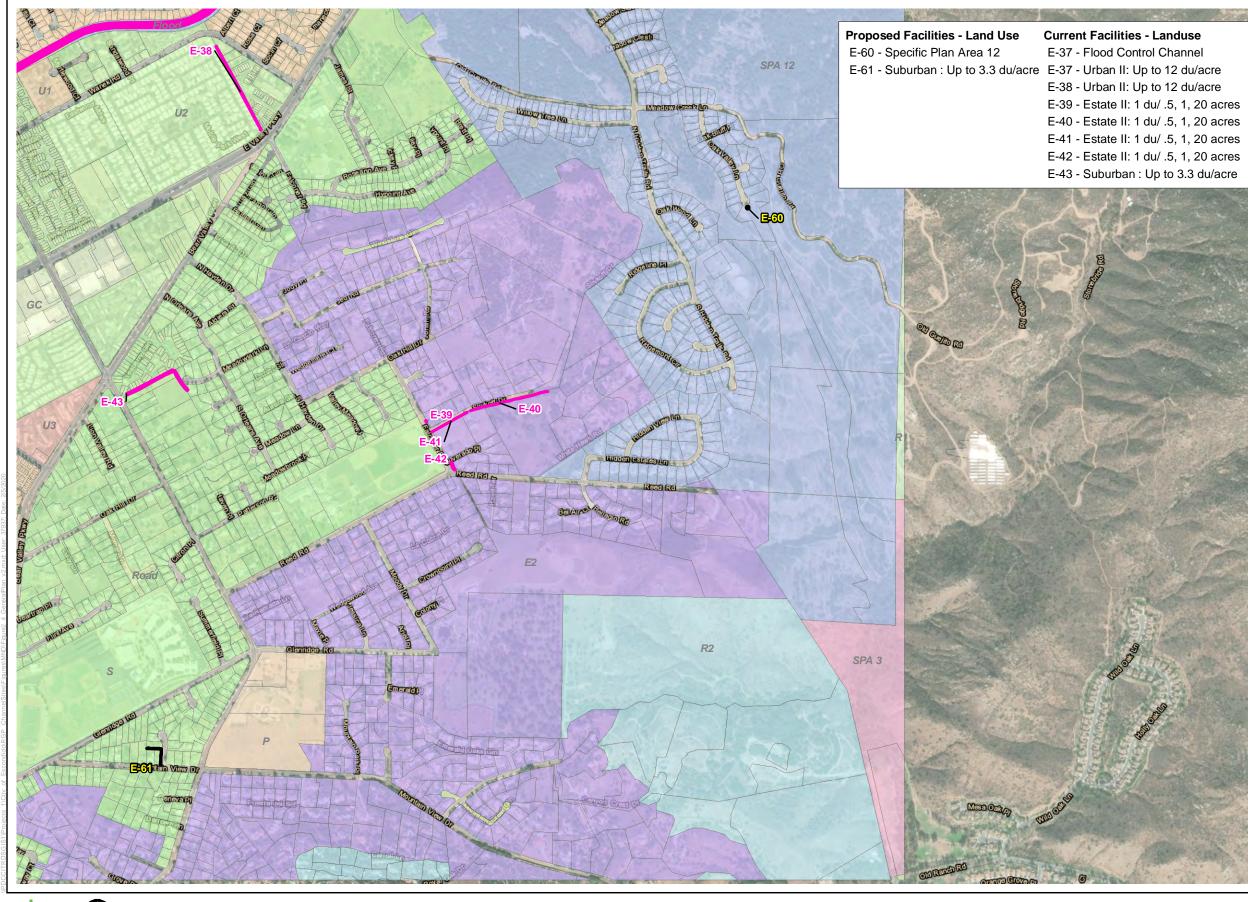


Figure 2-4, Sheet 5 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project** 

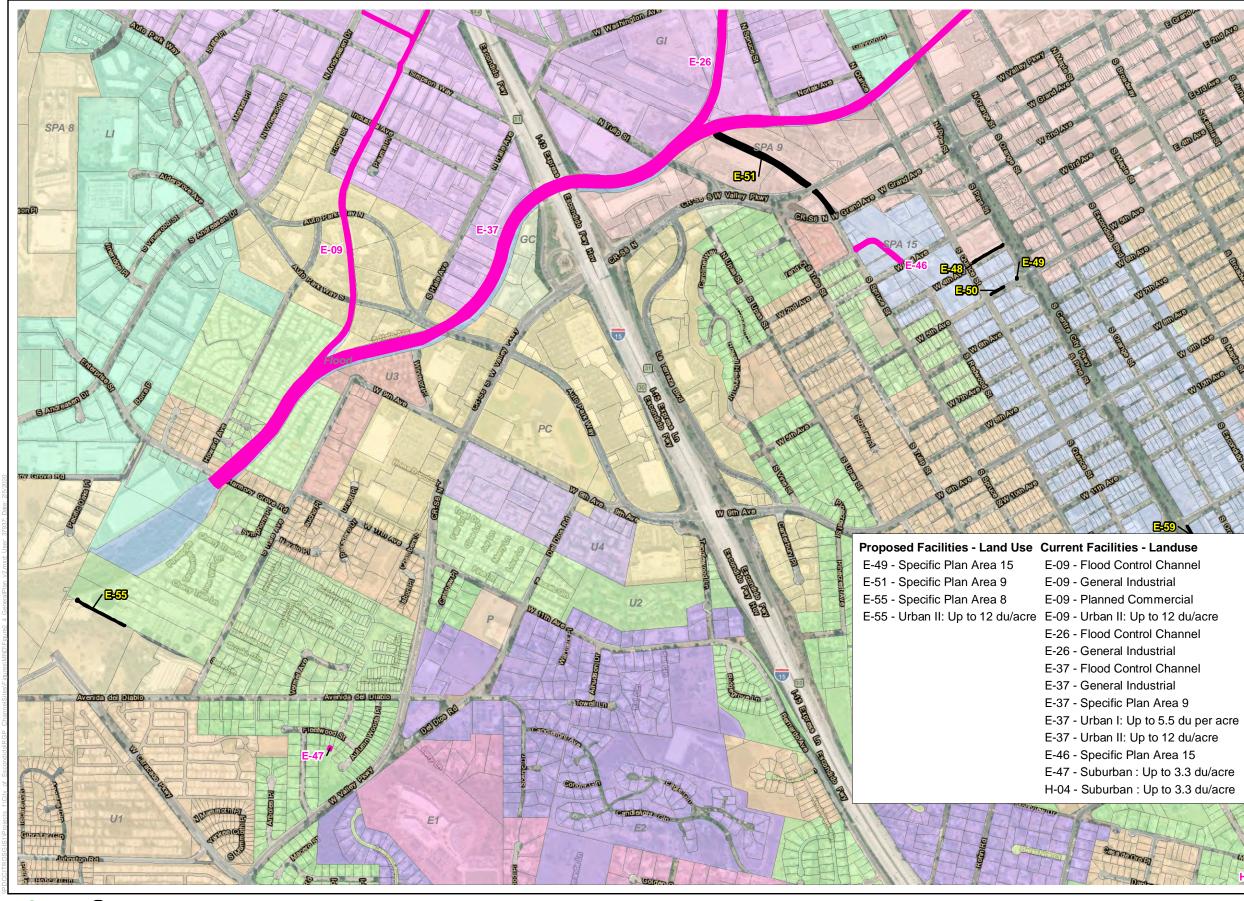


#### 1,000 500 Ν 1:12,000

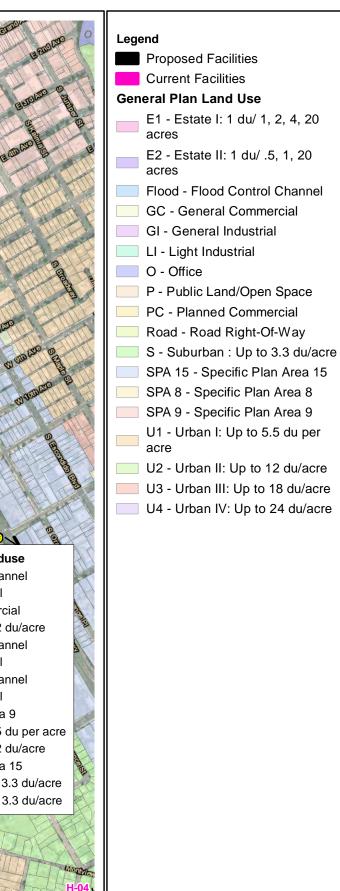
## Legend Proposed Facilities Current Facilities General Plan Land Use E2 - Estate II: 1 du/ .5, 1, 20 acres Flood - Flood Control Channel GC - General Commercial P - Public Land/Open Space R1 - Rural I: 1 du/ 4, 8, 20 acres R2 - Rural II: 1 du/ 2, 4, 20 acres Road - Road Right-Of-Way S - Suburban : Up to 3.3 du/acre SPA 12 - Specific Plan Area 12 SPA 3 - Specific Plan Area 3 U1 - Urban I: Up to 5.5 du per acre U2 - Urban II: Up to 12 du/acre U3 - Urban III: Up to 18 du/acre

Source: City of Escondido

Figure 2-4, Sheet 6 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project** 

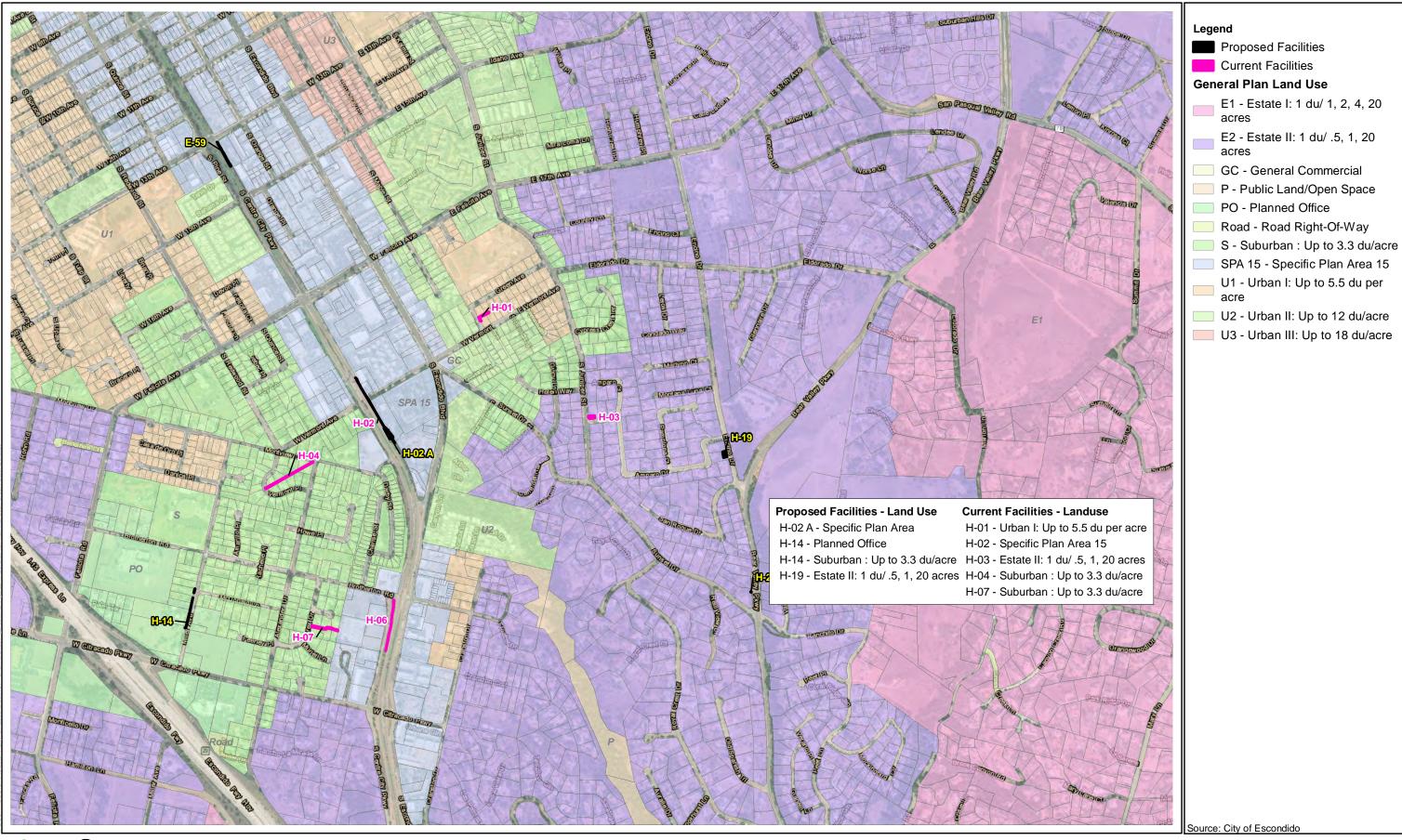


#### 500 1,000 Feet 1:12,000 Ν



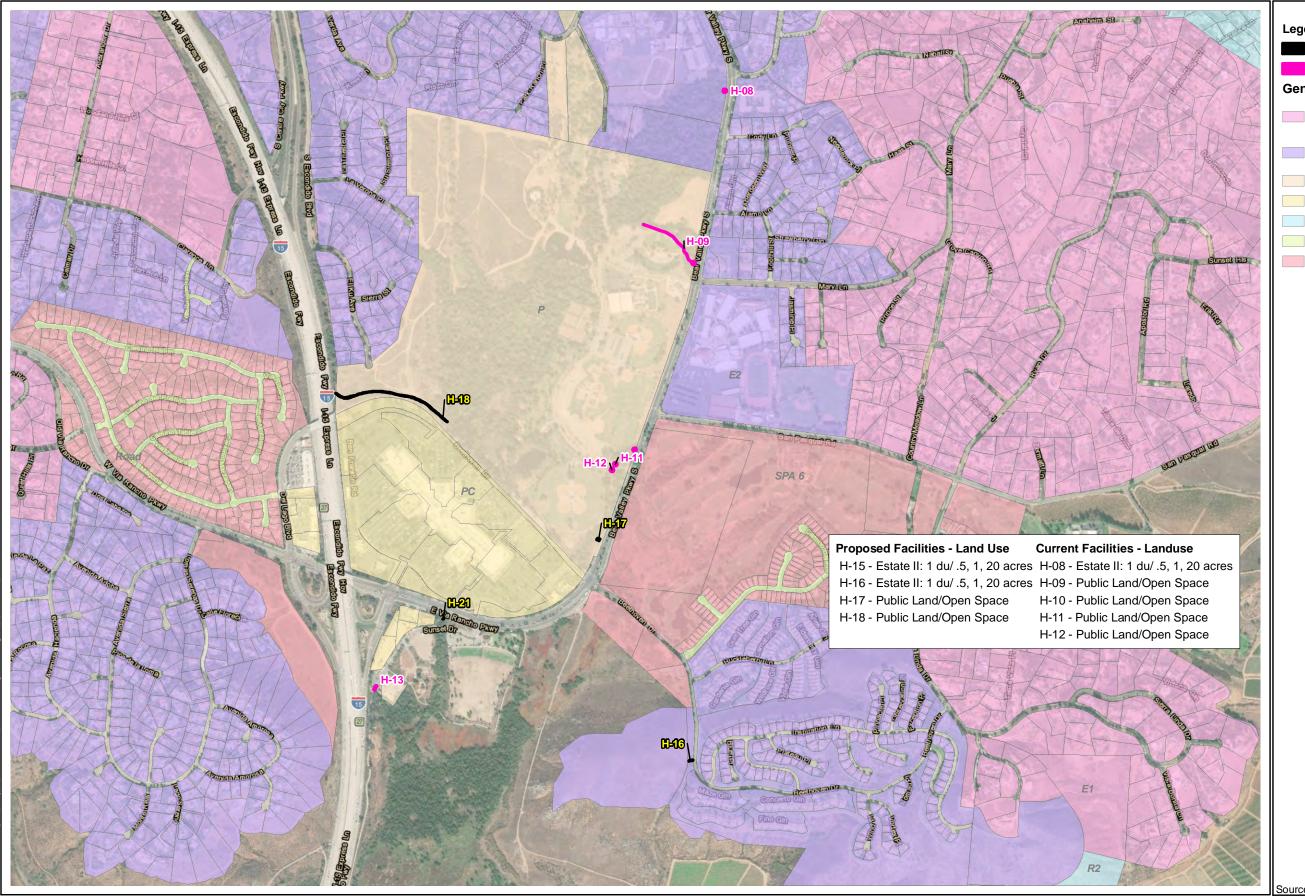
ource: City of Escondido

Figure 2-4, Sheet 7 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project** 



1,000 Feet 500 Ň 1:12,000

Figure 2-4, Sheet 8 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project** 



#### Legend

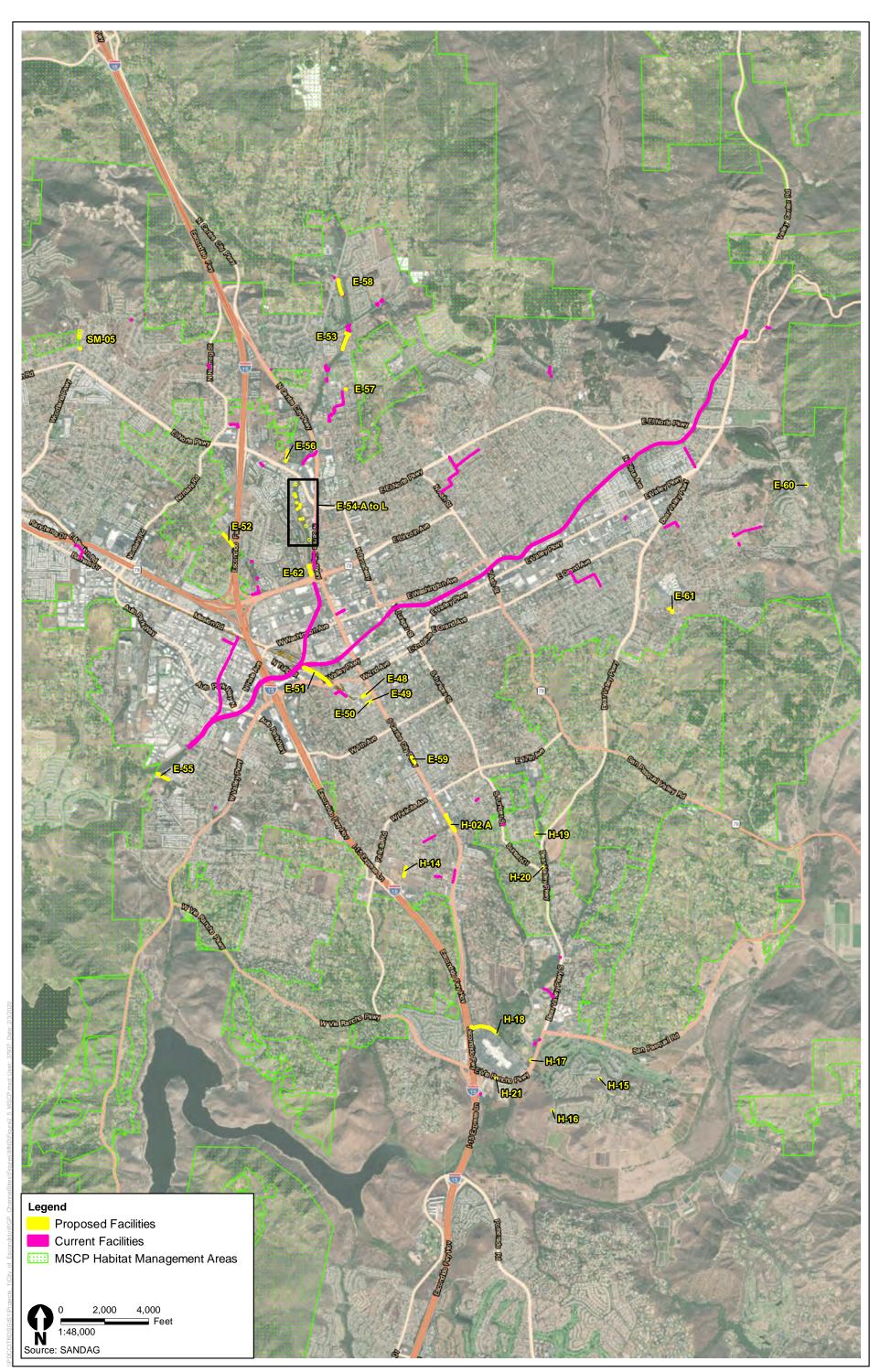
- Proposed Facilities
- Current Facilities

#### General Plan Land Use

- E1 Estate I: 1 du/ 1, 2, 4, 20 acres
  - E2 Estate II: 1 du/ .5, 1, 20 acres
  - P Public Land/Open Space
  - PC Planned Commercial
  - R2 Rural II: 1 du/ 2, 4, 20 acres
- Road Road Right-Of-Way
- SPA 6 Specific Plan Area 6

Source: City of Escondido

Figure 2-4, Sheet 9 of 9 **General Plan Land Use Map Escondido RGP 94 Channel Maintenance Project** 



#### Figure 2-5 MSCP Habitat Management Areas Escondido RGP 94 Channel Maintenance Project

area are covered by the provisions of the MBTA. No permit is issued under the MBTA; however, the proposed activities would need to comply with measures that would avoid or minimize effects on migratory birds.

# National Historic Preservation Act, Title 16 United States Code Sections 431-433

Among the provisions of Section 101 of the National Historic Preservation Act (NHPA), a State Historic Preservation Program was established in each state and a State Historic Preservation Officer (SHPO) was given the responsibility to consult with the appropriate federal agencies in accordance with the NHPA regarding:

- (i) Federal undertakings that may affect historic properties; and
- (ii) the content and sufficiency of any plans developed to protect, manage, or to reduce or mitigate harm to such properties;

Section 106 of the NHPA requires federal agencies to:

take into account the effect of their undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register. The head of any such Federal agency shall afford the Advisory Council on Historic Preservation...a reasonable opportunity to comment with regard to such undertaking.

#### **State Regulations**

#### California Fish and Game Code

The CFGC regulates the taking or possession of birds, mammals, fish, amphibians, and reptiles, as well as natural resources such as wetlands and waters of the State. It includes the California Endangered Species Act (CESA) (Sections 2050–2115) and Streambed Alternation Agreement regulations (Sections 1600–1616). These sections are described further below.

*CFGC Sections 1600–1616* – Pursuant to Section 1600 et seq. of the CFGC, CDFW regulates activities of an applicant's project that would substantially alter the flow, bed, channel, or bank of streams or lakes, unless certain conditions outlined by CDFW are met by the applicant. The limits of CDFW jurisdiction are defined in CFGC Section 1600 et seq. as the "bed, channel, or bank of any river, stream<sup>2</sup>, or lake designated by CDFW in which there is at any time an existing fish or wildlife resource or from which these resources derive benefit."<sup>3</sup> However, in practice, CDFW usually extends its jurisdictional limit and assertion to the top of a bank of a stream, the bank of a lake, or outer edge of the riparian vegetation, whichever is wider.

In some cases, drainage ditches and retention ponds<sup>4</sup> can be potentially considered under the regulatory administration of CDFW. CDFW provides specific guidance concerning its regulatory administration in CCR Title 14 Section 720 (Designation of Waters of Department Interest):

<sup>&</sup>lt;sup>2</sup> Title 14 CCR 1.72 defines a stream as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

<sup>&</sup>lt;sup>3</sup> This also includes the habitat upon which they depend for continued viability (CFGC Division 5, Chapter 1, Section 45, and Division 2, Chapter 1, Section 711.2[a]).

<sup>&</sup>lt;sup>4</sup> Title 14 CCR 1.56 defines a lake as a feature that "includes lakes or man-made reservoirs."

For the purpose of implementing Sections 1601 and 1603 of the Fish and Game Code, which requires submission to the department of general plans sufficient to indicate the nature of a project for construction by or on behalf of any person, governmental agency, state or local, and any public utility, of any project which will divert, obstruct, or change the natural flow or bed of any river, stream, or lake designated by the department, or will use material from the streambeds designated by the department, all rivers, streams, lakes, and streambeds in the State of California, including all rivers, streams, and streambeds, *which may have intermittent flows of water*, are hereby designated for such purpose. (Italics added.)

*CFGC Sections 2050–2115* – Any proposed impact on state-listed species within or adjacent to the project area would require a permit under CESA. CESA generally parallels the main provisions of the federal ESA and is administered by CDFW. CESA prohibits take of wildlife and plants listed as threatened or endangered by the California Fish and Game Commission. Take is defined under the CFGC as any action or attempt to "hunt, pursue, catch, capture, or kill." Therefore, take under CESA does not include "the taking of habitat alone or the impacts of the taking."<sup>5</sup> Rather, the courts have affirmed that under CESA, "taking involves mortality."

CESA allows exceptions to the take prohibition for take that occurs during otherwise lawful activities. The requirements of an application for incidental take permit under CESA are described in Section 2081 of the CFGC. Incidental take of state-listed species may be authorized if an applicant submits an approved plan that minimizes and "fully mitigates" the impacts of this take. Therefore, any proposed impact on state-listed species within or adjacent to the project area would require an incidental take permit under CESA.

*CFGC Section 2080.1* allows an applicant who has obtained a federal incidental take statement as part of a Biological Opinion pursuant to a ESA Section 7 consultation or an incidental take permit under ESA Section 10(a) to notify the CDFW Director in writing that the applicant has been issued an incidental take statement or permit pursuant to the ESA and submit a copy to the CDFW Director. The Director then has 30 days to determine whether the incidental take statement or permit is "consistent" with the CESA in the form of a written "consistency determination." If the Director determines that the incidental take statement or permit is consistent with the CESA, the applicant does not need to obtain separate take authorization from the CDFW in the form of an incidental take permit under CFGC Section 2081(b) and (c). However, consistency determinations apply only in those situations where the affected species is listed under both the ESA and the CESA. If the species is listed under the CESA only, an applicant must obtain an incidental take permit under CFGC 2081(b) and (c).

*CFGC Section 3503.* Under CFGC Division 4, Part 2, Chapter 1, Section 3503.5, "it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto," where "take" is defined under Division 0.5, Chapter 1, Section 86 as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." In addition, the MBTA restricts the killing of migratory birds or destruction of active migratory bird nests and/or eggs.

<sup>&</sup>lt;sup>5</sup> Environmental Council of Sacramento v. City of Sacramento, 142 Cal. App. 4th 1018 (2006).

#### Porter-Cologne Water Quality Act

Pursuant to Section 13000 et seq. of the California Water Code (the 1969 Porter-Cologne Water Quality Control Act), RWQCB is authorized to regulate any activity that would result in discharges of waste or fill material to waters of the State, including "isolated" waters and wetlands (e.g., vernal pools and seeps). Waters of the State include any surface water or groundwater within the boundaries of the state (California Water Code § 13050[e]). RWQCB also adopts and implements water quality control plans (basin plans) that recognize and are designed to maintain the unique characteristics of each region with regard to natural water quality, actual and potential beneficial uses, maintaining water quality, and addressing the water quality problems of that region.

Designated beneficial uses of state waters that may be protected against quality degradation include preservation and enhancement of fish, wildlife, designated biological habitats of special significance, and other aquatic resources or preserves.

### **City Regulations**

#### Tree Protection Ordinance

City ordinance protects against the removal of historically significant and mature trees within City limits, with a focus on oak tree protection. In Section 33-105 of the Escondido Municipal Code, the City defines protected trees as "any oak (Quercus sp.) which has a ten (10) inch or greater DBH, or any other species or individual specimen listed on the local historic register, or determined to substantially contribute to the historic character of a property or structure listed on the local historic register, pursuant to Article 40 of the Escondido Zoning Code (2001)."

#### City of Escondido General Plan

A General Plan is a statement of long-range public policy to guide the use of private and public lands within a community's boundaries. The policies within the Plan are intended to become the basis for decisions by elected and appointed officials. The Plan is both general and comprehensive in that it provides broad guidelines for development in the city while addressing a wide range of issues that will affect the city's desirability as a place to live and work. The General Plan represents both an evaluation and vision of the future, typically 15 to 20 years, and beyond. The goals and policies are aimed at guiding growth and development in that direction.

The General Plan is an internally consistent document in that the goals, objectives, policies, principles, and standards present a comprehensive, unified program for development. California planning law requires consistency between the General Plan and its implementation programs zoning and subdivision ordinances, growth management policies, capital improvements programming, specific plans, environmental review procedures, building and housing codes, and redevelopment plans.

The City of Escondido General Plan was adopted on May 23, 2012.

### VII. REGULATORY APPROVALS

The City of Escondido is the lead agency under CEQA and is responsible for permitting the project; USACE, USFWS, RWQCB, CDFW, and have some approval and/or discretionary authority over the

project. The regulatory approvals listed in Table 2-3 would be obtained for the proposed O&M activities.

#### TABLE 2-3. PERMITS

Resource Agency	Permit Type
U.S. Army Corps of Engineers	Regional General Permit
U.S. Fish and Wildlife Service	Section 7 Informal Consultation
Regional Water Quality Control Board	401 Water Quality Certification
California Department of Fish and Wildlife	Streambed Alteration Agreement

#### VIII. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

	Aesthetics		Agriculture and Forestry Resources		Air Quality
$\boxtimes$	<b>Biological Resources</b>	$\boxtimes$	Cultural Resources		Energy
	Geology /Soils		Greenhouse Gas Emissions		Hazards & Hazardous Materials
$\square$	Hydrology / Water Quality		Land Use / Planning		Mineral Resources
	Noise		Population / Housing		Public Services
	Recreation		Transportation	$\boxtimes$	Tribal Cultural Resources
	Utilities / Service Systems		Wildfire	$\square$	Mandatory Findings of Significance

**DETERMINATION:** (To be completed by the Lead Agency)

On the basis of this initial evaluation:

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

- ☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached

sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

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

JPaul

October 26, 2020

Signature

Date

Jay Paul, Senior Planner

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# **SECTION 3. ENVIRONMENTAL CHECKLIST**

### I. AESTHETICS

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
	cept as provided in Public Resources Code Section 099, would the project:				
a.	Have a substantial adverse effect on a scenic vista?				$\boxtimes$
b.	Substantially damage scenic resources, including, but not limited to trees, rock outcroppings, and historic buildings along a scenic highway?				$\boxtimes$
C.	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
d.	Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?				$\boxtimes$

#### **Environmental Evaluation**

Would the project:

a. Have a substantial adverse effect on a scenic vista?

**No Impact**. The 2013 MND ENV 12-0001 (2013 MND) found that implementation of the current RGP 94 would not result in substantial adverse impacts on a scenic vista. Similarly, the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would generally be consistent with the O&M activities that were analyzed in the City's 2013 MND. The proposed project would be contained within the same project vicinity analyzed in the City's 2013 MND and would contain a similar mix of land uses. The proposed project would not construct structures or modify the existing land form in a way that would cause an adverse effect on a scenic vista, and the project does not propose activities that would damage scenic resources or degrade the existing visual character (City of Escondido 2012). Therefore, implementation of the proposed project would not significantly alter the developed character of the sites, and no impacts would occur on any scenic views through and across the project area.

b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a scenic highway?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic

buildings along a scenic highway. Similarly, the proposed project would not occur within any state- or county-designated scenic highways (City of Escondido 2012). No activities of the proposed project would damage scenic resources or degrade the existing visual character. The proposed project would not damage any significant scenic resources within a designated state scenic highway or create an aesthetically offensive site open to the public because the site is not located along a state scenic highway. Therefore, the proposed project would not substantially damage scenic resources within a state scenic highway, and no impacts would occur.

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

**No Impact**. The City's 2013 MND found that implementation of the current RGP 94 would not propose activities that would damage scenic resources or degrade the existing visual character of the site or the surrounding areas (City of Escondido 2012). Similarly, the proposed project would be consistent with the project activities analyzed in the City's 2013 MND and would not damage scenic resources or degrade the existing visual character of the site or the surrounding areas. Therefore, no impacts would occur from implementation of the proposed project.

d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?

**No Impact**. The City's 2013 MND stated that operation and maintenance activities planned for the current RGP 94 are not scheduled to occur at night and would not create a new source of light or glare that would affect daytime or nighttime views of the area. Similarly, the proposed project proposes O&M activities that would not occur at night and thus would not create a new source of light or glare or affect day or nighttime views in the area. Although no impacts are anticipated, compliance with the City's Outdoor Lighting Ordinance would ensure that any impacts related to light and glare resulting from the project would not occur (City of Escondido 2019). Therefore, no impacts would occur from implementation of the proposed project.

### AGRICULTURAL AND FORESTRY RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
resc age Eva prep as a agri imp sign refe Dep the and Ass met	etermining whether impacts on agricultural burces are significant environmental effects, lead ncies may refer to the California Agricultural Land luation and Site Assessment Model (1997) bared by the California Department of Conservation an optional model to use in assessing impacts on culture and farmland. In determining whether acts on forest resources, including timberland, are ificant environmental effects, lead agencies may r to information compiled by the California bartment of Forestry and Fire Protection regarding state's inventory of forest land, including the Forest Range Assessment Project and the Forest Legacy essment Project, and forest carbon measurement hodology provided in the Forest Protocols adopted he California Air Resources Board. Would the ect:				
a.	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
b.	Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?				$\boxtimes$
c.	Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				
d.	Result in the loss of forest land or conversion of forest land to non-forest use?				$\boxtimes$
e.	Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?				

#### **Environmental Evaluation**

Would the project:

**II**.

a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

**No Impact.** The 2013 MND found that activities planned for the current RGP 94 would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Important to non-agricultural use.

Similarly, the proposed project would not be located on or adjacent to designated farmland. The proposed project sites are within urban and suburban areas and do not involve changes to the existing environment that would result in conversion of farmland to a nonagricultural use (California Department of Conservation 2016). Therefore, no impacts would occur.

b. Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?

**No Impact.** The 2013 MND found that activities planned for the current RGP 94 are routine in nature and would not conflict with existing zoning for agricultural use or conflict with a Williamson Act contract. Similarly, the proposed project would not be located on or adjacent to land under a Williamson Act contract, nor would it occur on land zoned by the City for agricultural use (City of Escondido 2012). Therefore, the proposed project would not conflict with existing zoning for agricultural use or conflict with a Williamson Act contract.

c. Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

**No Impact.** The 2013 MND found that implementation of the current RGP 94 would not conflict with existing zoning for, or cause rezoning or, forest land or timberland zoned Timberland Production. Similarly, the project would not be located on or adjacent to an area with existing zoning for forestland or timberland zoned Timberland Production (City of Escondido 2012). Therefore, no impacts would occur.

d. Result in the loss of forest land or conversion of forest land to non-forest use?

**No Impact.** The 2013 MND found that implementation of the current RGP 94 would not result in the loss of forest land or conversion of forest land to non-forest use. Similarly, the proposed project would not reduce or convert forest land to non-forest use. The proposed project consists of routine O&M activities and would not result in the loss of forest land and does not propose to convert forest land to a non-forest use (City of Escondido 2012). Therefore, no impacts would occur.

e. Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

**No Impact.** The 2013 MND found that implementation of the current RGP 94 would not otherwise convert Farmland to non-agricultural use or convert forest land to non-forest land. As discussed above, the proposed project would not be located on or adjacent to land that is designated as farmland or forest land. Furthermore, the proposed project does not involve any other changes to the existing environment that would result in conversion of farmland to non-agricultural use or forest land to non-forest use (California Department of Conservation 2016). Therefore, no impact would occur.

III. AIR QUALITY

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

#### Environmental Evaluation

Would the project:

a. Conflict with or obstruct implementation of the applicable air quality plan?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not violate any air quality standard or contribute substantially to an existing or projected airquality violation or obstruct implementation of applicable air quality plans.

The proposed project site is in the San Diego Air Basin (SDAB), which is contiguous with San Diego County. The San Diego Air Pollution Control District (SDAPCD) is required, pursuant to the federal and state Clean Air Acts, to reduce emissions of criteria pollutants for which the SDAB is in nonattainment. The SDAB is currently classified as a nonattainment area for the federal 8-hour ozone (O3) standard (2008 standard of 0.075 part per million [ppm]) and a maintenance area for both the old (1997 standard of 0.08 ppm) 8-hour O<sub>3</sub> standard and the federal carbon monoxide (CO) standard. The USEPA lowered the federal 8-hour O<sub>3</sub> standard to 0.070 ppm effective October 2015, but demonstration of attainment of this new standard will not be required until after the California Air Resources Board (CARB) makes its final area attainment designations. In addition, the SDAB is classified as a nonattainment area for the state O<sub>3</sub>, particulate matter less than 2.5 microns (PM2.5), and particulate matter less than 10 microns (PM10) standards (U.S. Environmental Protection Agency 2020, California Air Resources Board 2016).

All areas designated as nonattainment are required to prepare plans showing how the area would meet the state and federal air quality standards by its attainment dates. The SDAPCD's adopted air quality plan is the San Diego Regional Air Quality Strategy (RAQS), which was last updated in 2016. The RAQS outlines SDAPCD's plans and control measures designed to attain the federal and state air-quality standards. The RAQS relies on mobile source emission projections from CARB and growth projections from the San Diego Association of Governments (SANDAG) to project future

emissions and determine appropriate emissions reduction strategies. In turn, the CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the region's cities and by the County of San Diego, which includes local general plans. Generally, projects that propose development that are consistent with the land use designations and growth anticipated by the local general plan and SANDAG are consistent with the RAQS.

The proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would involve similar O&M activities that are currently being performed under the existing (2015) RGP 94, including excavation of accumulated sediment and herbaceous vegetation, excavation and clearing of culverts, removal of nonnative trees, and trimming of native shrub and tree cover, as well as additional work activities such as one-time native tree removal to gain access and/or allow for positive flows to occur at specific facility locations and the repair of existing hardscaped facilities. The proposed project would allow for these O&M activities to occur on 24 new maintenance facility locations in addition to the existing 63 facilities and would also expand a current facility location that is already included in the existing RGP. The proposed project would not change land uses, increase population, or result in a substantial increase in motor vehicle trips in the project area. As such, the proposed project would not affect the local general plan and SANDAG's growth projections that were used in the development of the RAQS. Therefore, the proposed project would be considered consistent at a regional level with the RAQS. Additionally, while the proposed project's O&M activities would generate pollutant emissions, these emissions would not exceed the City's criteria pollutant thresholds (discussed below under Threshold III.b). Furthermore, the proposed project's O&M activities would be required to comply with SDAPCD rules that have been implemented to reduce regional particulate matter and ozone emissions-Rule 50 (Visible Emissions), Rule 51 (Nuisance), Rule 52 (Particulate Matter), Rule 54 (Dust and Fumes), and Rule 55 (Fugitive Dust Control). Overall, emissions generated by the proposed project are not expected to impede attainment or maintenance of the state and federal air quality standards. Therefore, similar to the current RGP 94 and findings of the 2013 MND, the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would not conflict with or obstruct the implementation of any applicable air quality plan, and this impact would be less than significant.

b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?

**Less-than-Significant Impact**. The 2013 MND found that under a worst-case scenario, maximum daily emissions generated during implementation of the current RGP 94 would not exceed the City of Escondido's significance thresholds for criteria pollutants. As a result it was concluded that the project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, nor result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.

As discussed above, the proposed project would involve similar O&M activities as the current RGP, which was analyzed in the 2013 MND, along with additional work activities that involve one-time native tree removal at specific facility locations and the repair of existing hardscaped facilities. Like the current RGP 94, maintenance activities associated with the proposed project would generate emissions of reactive organic gases (ROG), nitrogen oxides (NO<sub>X</sub>), PM2.5, PM10, carbon monoxide (CO), and sulfur dioxide (SO<sub>2</sub>). Exhaust emissions would originate from use of offroad equipment including tractor/loader/backhoes, excavators, and skid steer loaders; mechanical hand tools including chainsaws and trimmers; use of water trucks onsite; employee vehicle trips; and haul and

vendor truck trips. Fugitive dust emissions would also result from earth movement and ground disturbance at facility sites. Emissions were estimated using a combination of emission factors and methodologies published and recommended by CARB and other agencies, including the California Emissions Estimator Model (CalEEMod), version 2016.3.2 (Trinity Consultants 2017), CARB's EMFAC2017 model (CARB 2018), and *EPA's AP-42 Compilation of Air Pollutant Emission Factors* (USEPA 2011). Construction data for the proposed project (e.g., schedule, equipment types and numbers, and truck trips) is based on a combination of information provided by the project applicant and model defaults.

Maximum peak daily emissions generated by the proposed project's O&M activities were estimated assuming all new daily maintenance activities would be occurring in addition to the existing daily maintenance activities occurring under the current RGP 94. Emissions are summarized in Table 3-1 according to activity type and compared to the City of Escondido's significance thresholds. Please refer to Appendix B for model outputs.

Source	ROG	NOx	CO	SOx	PM10	PM2.5
Offroad Equipment	42	50	223	<1	2	2
Mobile	<1	4	1	<1	<1	<1
Grading	0	0	0	0	1	<1
Total	42	54	224	0	3	2
Threshold	75	250	550	250	100	55
Exceed Threshold?	No	No	No	No	No	No

# TABLE 3-1. ESTIMATED MAXIMUM DAILY CRITERIA POLLUTANT EMISSIONS BY<br/>SOURCE (POUNDS PER DAY)

Source: Appendix B

As show in Table 3-1, estimated maximum daily emissions would not exceed the City of Escondido's significance thresholds for any criteria pollutant. Consequently, similar to the current RGP 94 and findings of the 2013 MND, the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, nor result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard. Therefore, the impact would be less than significant.

#### c. Expose sensitive receptors to substantial pollutant concentrations?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not expose sensitive receptors to substantial pollutant concentrations, including toxic air contaminants (TAC) such as diesel particulate matter (DPM), and CO. Similar to the current RGP 94, the proposed project would not expose sensitive receptors to substantial pollutant concentrations.

#### 1. Diesel Particulate Matter

DPM, which is classified as a carcinogenic TAC by CARB, is the primary exhaust pollutant of concern with regard to health risks to sensitive receptors. Diesel-powered construction equipment as well as heavy-duty truck movement and hauling both on and off site would emit DPM that could potentially expose nearby sensitive receptors to pollutant concentrations.

Sensitive receptors are facilities and structures where people live or spend considerable amounts of time, and include retirement homes, residences, schools, playgrounds, childcare centers, and athletic facilities. As previously mentioned in the 2013 MND, DPM is highly dispersive, and studies have shown that measured concentrations of vehicle-related pollutants, including ultra-fine particles, decrease dramatically within approximately 300 feet of the source. The proposed project would not be active within 300 feet of any sensitive receptors for any substantial length of time, given that O&M activities would be occurring at 87 total maintenance facility sites throughout the City of Escondido. Most maintenance activities at each facility site would take 2 to 5 days to complete, while some sites would require work that could last up to 45 days. However, this time period would be significantly lower than the 70-year exposure period typically associated with chronic cancer health risks. Accordingly, implementation of the project would not result in an elevated cancer risk to exposed sensitive receptors. Therefore, emissions would be minimal, and compliance with all SDAPCD rules would ensure that nearby sensitive receptors would not be exposed to substantial pollutant concentrations. As such, similar to the current RGP 94 and findings of the 2013 MND, impacts related to the emissions of TACs from implementation of the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would be less than significant.

2. Carbon Monoxide Hotspots

A CO hot spot is a localized concentration of CO that is above the state or national 1-hour or 8-hour ambient air standards for the pollutant, and generally occur at locations with high traffic volumes and congestion. Projects that do not generate CO concentrations in excess of the state's health-based standard would not contribute a significant level of CO such that localized air quality and human health would be substantially degraded. Similar to the current RGP 94, the proposed project would not increase traffic volumes resulting in congestion on local streets and intersections, would not result in a substantial increase in the number of vehicles operating in cold start mode, or substantially increase the number of vehicles on local roadways. As shown in Table 3-1 above, CO emissions from mobile sources associated with the proposed project would only be approximately 1 pound per day, which is minimal and would not expose sensitive receptors to substantial pollutant concentrations. Therefore, similar to the current RGP 94 and findings of the 2013 MND, impacts related to sensitive receptor exposure to substantial CO concentrations would be less than significant.

3. Criteria Air Pollutants

All criteria pollutants that would be generated by the proposed project are associated with some form of health risk (e.g., asthma, lower respiratory problems). However, air quality districts have developed region-specific CEQA thresholds of significance for criteria pollutants in consideration of existing air quality concentrations and attainment designations under the state and federal air quality standards. This applies to the City's criteria pollutant thresholds presented in Table 3-1 above, which were developed based on the County of San Diego and South Coast Air Quality Management District (SCAQMD) thresholds. The state and federal air quality standards are informed by a wide range of scientific evidence that demonstrates there are known safe concentrations of criteria pollutants. As such, local air quality districts with established criteria pollutant thresholds consider projects that generate criteria pollutant and ozone precursor emissions below their thresholds to be minor in nature and would not adversely affect air quality such that the health-protective state and federal air quality standards would be exceeded. As shown in Table 3-1, implementation of the proposed project would not exceed significance thresholds for any criteria pollutant, which is also the finding in the 2013 MND. Therefore, the proposed project is not expected to contribute to a significant level of air pollution within the SDAB, and impacts related to adverse health effects induced by criteria pollutant emissions would be less than significant.

d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in a significant impact related to other emissions, such as those leading to odors, that would adversely affect a substantial number of people. Similar to the current RGP 94, potential odor emitters during operation and maintenance of the proposed project would result from exhaust from vehicles and offroad equipment. However, odor impacts would be limited to the circulation routes, parking areas, and areas immediately adjacent to the project site, and would not exceed existing odor conditions. Although such brief exhaust odors may be considered unpleasant, they would not affect a substantial number of people. Similar to the current RGP 94, odor-related impacts as a result of implementation of the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would be less than significant.

<u>IV.</u>	BIOLOGICAL RESOURC	ES			
		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special- status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
b.	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
C.	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?		$\boxtimes$		
d.	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
e.	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?		$\boxtimes$		
f.	Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan?				

# BIOLOGICAL RESOLIRCES

# Background

The following section is based on the results of environmental surveys and analysis of the newly proposed 24 maintenance facilities and one expanded current facility location conducted by ICF in 2019 and described in the City of Escondido Regional General Permit 94 – Biological Resources Memorandum dated March 2020 and prepared by ICF (Appendix C). Environmental surveys included general biological surveys, vegetation mapping, and a formal jurisdictional delineation of potential waters of the U.S. and State and CDFW jurisdictional waters within the maintenance footprint and a 100-foot survey buffer for each facility location (survey area). ICF biologists incorporated the following datasets into their analysis:

California Department of Fish and Wildlife (CDFW) Natural Diversity Database (CNDDB) (CDFW • 2019)

- National Wetlands Inventory (NWI) Wetlands Mapper (USFWS 2019)
- U.S. Department of Agriculture (USDA)/Natural Resource Conservation Service (NRCS) Web Soil Survey (NRCS 2012)

In addition, this section summarizes the results and findings of environmental surveys and analysis previously conducted for the 63 existing maintenance facilities. This information can be found in full in the 2013 MND ENV 12-0001 (2013 MND) and the 2014 Addendum ENV 12-0001 (2014 Addendum).

## **Existing Conditions**

#### Natural Communities and Other Land Covers

The 2013 MND documented 16 vegetation communities/land cover types that occur within the existing 63 facilities. ICF biologists conducted vegetation mapping of the newly proposed 24 facilities and one expanded current facility location during the winter, spring, and fall of 2019, resulting in the detection of three additional vegetation communities not previously described in the 2013 MND. These vegetation communities include disturbed southern cottonwood-willow riparian forest, non-native woodland, and southern coast live oak riparian forest, which are described below. Refer to Table 3.2 below for a list of all vegetation communities/land cover types documented within the survey areas.

#### Disturbed Southern Cottonwood-Willow Riparian Forest

Disturbed southern cottonwood-willow riparian forest occurs along Reidy Creek and is due to the sparse canopy of native trees and the abundance of Mexican fan palms (*Washingtonia robusta*). Within the survey area, this is one of the dominate vegetation communities within facility locations E-51 and E-54.

#### Non-native Woodland

This habitat consists of a composition of planted, nonnative tree species, such as pepper trees (*Schinus* spp.), tamarisk (*Tamarix* spp.) and Eucalyptus spp. Within the survey area, this vegetation community occurs within facility locations E-51, E-53, E-54, H-02, and H-17, which occur near roadsides and within ornamental plantings associated with urban developments.

#### Southern Coast Live Oak Riparian Woodland

This riparian habitat type is dominated by coast live oak (*Quercus agrifolia*), and it often has a richer understory of herbs while poorer in shrubs when compared to other riparian communities. Within the survey area, this vegetation community occurs within facility location SM-05, which occurs adjacent to open space.

Table 3-2 depicts the comparison of habitat types occurring within the 24 newly proposed maintenance sites and the 63 existing maintenance sites. Vegetation communities are classified according to the Holland Classification System, as modified for San Diego County by Oberbauer et al. (2008).

Vegetation communities and other land cover types classified as "sensitive" within this MND were determined by applying the following regulatory context. Guidance for determining sensitive vegetation communities is provided by the resource agencies—including CDFW and the California Native Plant Society (CNPS)—as well as supporting documentation such as the CNDDB. These

federal, state, and local agencies and related publications are typically in concurrence on the classification of sensitive vegetation communities and other land cover types. For example, vegetation communities or other cover types that are considered potential jurisdictional waters of the U.S. and State or CDFW jurisdictional waters typically result in the vegetation community or nonvegetated area being considered sensitive. For the proposed project, these waters are regulated by Sections 401 and 404 of the CWA, Sections 1600 et seq. of the CFGC, and the Porter-Cologne Water Quality Control Act. In addition, vegetation communities are considered sensitive if identified as warranting mitigation in the City's Draft Subarea Plan. Biologically, the vegetation communities that provide the highest habitat values within the project area are the structurally diverse riparian communities.

# Potential Jurisdictional Waters of the U.S. and State and CDFW Jurisdictional Waters

All 87 maintenance facilities (63 existing and 24 newly proposed) occur in and adjacent to native, naturalized, and developed channels, varying in size, shape, habitat composition, and habitat quality. These ecologically heterogeneous locations share a common ecological context, in that they each convey storm water and other runoff through the city and are connected to larger creeks and waterways (Reidy Creek, Escondido Creek, San Marcos Creek, or the San Dieguito River depending on the facility location), which eventually flow to the Pacific Ocean. Based on this hydrologic and ecologic context, the RGP maintenance facilities are considered to be located within potential jurisdictional waters and are protected by federal, state, and local regulations.

The project study area is encompassed by three Hydrologic Areas (HAs) within three Hydrologic Units (HUs): (1) Carlsbad HU, Escondido Creek HA (RWQCB Basin 904.62, USACE HUC 18070303); (2) Carlsbad HU, San Marcos HA (RWQCB Basin 904.51, USACE HUC 18070303); (3) San Dieguito HU, Hodges HA (RWQCB Basin 905.21, USACE HUC 18070304); and San Dieguito HU, San Pasqual HA (RWQCB Basin 905.21, USACE HUC 18070304). The San Pasqual HA is an additional HA that was not included in the 63 existing maintenance facilities.

Of the 24 newly proposed maintenance facilities, 13 facilities or (54 percent) occur in the Escondido Creek HA, with 9 facilities (38 percent) occurring in the Hodges HA, one facility (4 percent) occurring in the San Marcos HA and one facility occurring in the San Pasqual HA (4 percent). Facilities within the Escondido Creek HA are hydrologically connected to the Pacific Ocean via Escondido Creek, facilities within the San Marcos HA are hydrologically connected to the Pacific Ocean via San Marcos Creek, and facilities within the San Dieguito HU are hydrologically connected to the Pacific Ocean via San Marcos Creek, and facilities within the San Dieguito HU are hydrologically connected to the Pacific Ocean via the San Dieguito River. Hydrology is further discussed under Threshold IV.c below. Biologists conducted a formal jurisdictional delineation for potential waters of the U.S. and State and CDFW jurisdictional waters of the 24 newly proposed maintenance sites in 2019 (Appendix C). Biologists had access to the project survey area to sample vegetation, soils, and hydrology in support of the formal jurisdictional delineation for waters of the U.S. and State and CDFW jurisdictional waters. The presence of wetlands and other waters was assessed based on pre-field surveys and ambient site conditions, along with the formal delineation of wetland and nonwetland waters pursuant to the guidance and criteria outlined in and in accordance with the following:

- 33 Code of Federal Regulations 328 (Definition of Waters of the United States)
- Regulatory Guidance Letters (RGL) 07-02, 88-06, and 05-05
- Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) (1987 Manual)

- Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (Environmental Laboratory 2008) (2008 Supplement)
- A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual (USACE 2008)

TABLE 3-2. VEGETATION COMMUNITIES AND OTHER COVER TYPES OCCURRING WITHIN THE PROJECT S	STUDY AREA
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	New	/ Proposed 24	Sites	Existing 63 Sites			
Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-Foot Buffer	Total	Within Facility Location	Within 100-Foot Buffer	Total	Grand Total
Riparian and Wetlands							
Southern Arroyo Willow Riparian Forest*	0.02	2.08	2.10	0.33	5.94	6.27	8.37
Southern Cottonwood-Willow Riparian Forest*	2.1	4.69	6.79	0.43	5.06	5.49	12.28
Disturbed Southern Cottonwood-Willow Riparian Forest*	6.83	0.13	6.96				6.96
Emergent Wetland*		0.4	0.40	< 0.01	< 0.01	0.01	0.41
Coastal and Valley Freshwater Marsh*	0.81	0.11	0.92	0.20	0.57	0.77	1.69
Mulefat Scrub*		0.14	0.14	< 0.01	0.21	0.21	0.35
Southern Riparian Scrub*	0.03	0.85	0.88	0.01	0.45	0.46	1.34
Southern Willow Scrub*	0.09	0.87	0.96	< 0.01	0.12	0.13	1.09
Open Water	0.04	0.27	0.31	1.23	0.19	1.42	1.73
Unvegetated Channel	0.34	0.05	0.39	0.08	0.09	0.17	0.56
Total Riparian and Wetlands	10.26	9.59	19.85	3.43	13.69	17.12	36.97
Uplands						I	L
Coast Live Oak Woodland*		0.79	0.79		0.21	0.21	1
Southern Coast Live Oak Riparian Forest*	0.03	0.25	0.28				0.28
Diegan Coastal Sage Scrub*	<0.01	3.01	3.01		1.06	1.06	4.07
Eucalyptus Woodland *	0.04	1.923	1.963	0.03	0.60	0.63	2.593
Non-native Woodland	1.142	2.64	3.782				3.782
Non-native Grassland *	3.842	9.888	13.73	< 0.01	1.67	1.67	15.4
Total Uplands	5.054	18.501	23.555	0.03	3.92	3.95	27.505

	New Proposed 24 Sites		Existing 63 Sites				
Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-Foot Buffer	Total	Within Facility Location	Within 100-Foot Buffer	Total	Grand Total
Other Land Cover Types	Other Land Cover Types						
Disturbed Habitat	0.06	3.33	3.39	0.54	7.98	8.52	11.9
Urban / Developed	1.22	56.77	57.99	71.94	310.21	382.14	440.13
Total Other Land Cover Types	1.28	60.1	61.28	72.48	318.18	390.66	451.94
Grand Total	16.6	88.191	104.8	75.94	335.79	411.73	516.53

\* Denotes sensitive vegetation community.
 <sup>1</sup> All acreages rounded to two decimal places after summation.
 <sup>2</sup> Based on AECOM (2012) and ICF (2020) survey results.

A total of 13.15 acres of waters of the U.S. and State and 16.42 acres of CDFW riparian and/or streambed occur within the newly proposed facility locations (Table 3-3). These jurisdictional waters occur within the Carlsbad and San Dieguito watersheds. Representative OHWM data forms were completed for each type of jurisdictional water (i.e. concrete-lined, roadside drainage, and natural drainage) and not completed for each facility location.

TABLE 3-3. POTENTIAL JURISDICTIONAL WATERS OF THE U.S. AND STATE AND CDFW
WATERS OCCURRING WITHIN THE PROJECT SURVEY AREA

	Waters of	Waters of the U.S and State			CDFW Waters		
RGP Maintenance Facilities	Nonwetland (acres)	Wetland (acres)	Total	Streambed (acres)	Riparian (acres)	Total	
Newly Proposed 24	1.09	12.06	13.15	1.39	15.03	16.42	
Existing 63	70.75	0.91	71.66	2.23	0.29	2.52	
Total	71.84	12.97	84.81	3.62	15.32	18.94	

<sup>1</sup> All acreages rounded to two decimal places after summation.

#### Special-Status Species

Species are given special consideration by resource agencies such as USFWS and CDFW due to limited distribution (i.e., rarity), local significance, and/or the threat of extinction by human activities. Special-status species are those protected under the federal ESA, CESA, and/or listed as sensitive by other state and local organizations or agencies such as the CNPS. For purposes of this analysis, a special-status species is broadly defined as a candidate, sensitive, or other species covered by local or regional plans, policies, or regulations, or by CDFW or USFWS.

The 2013 MND determined 40 special-status plant and animal species are known to occur within 1 mile of the existing 63 maintenance facilities. Of these 40 species, 21 special-status species were observed or determined to have a potential to occur within 100 feet of one or more of the existing maintenance facilities. A complete list of special-status plant and animal species documented in CNDDB within 1 mile of the existing 63 maintenance facilities is provided in Appendix C of the 2013 MND.

Based on the results of field surveys of the newly proposed 24 maintenance facilities and a revised search of the CNDDB (CDFW 2019), 11 additional special-status plant and animal species are known to occur within 1 mile of the project survey area: San Diego button-celery (*Eryngium aristulatum* var. *parishii*), decumbent goldenbush (*Isocoma menziesii* var. *decumbens*), spreading navarretia (*Navarretia fossalis*), southern California legless lizard (*Aniella stebbinsi*), coast horned lizard (*Phrynosoma blainvillii*), Coronado skink (*Plestiodon skiltonianus interparietalis*) tricolored blackbird (*Agelaius tricolor*), Swainson's hawk (*Buteo swainsoni*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), California black rail (*Laterallus jamaicensis coturniculus*), and Townsend's big-eared bat (*Corynorhinus townsendii*). None of these additional special-status species have been determined to have a high potential to occur within any of the newly proposed 24 maintenance facilities.

Three special-status plant and animal species that were previously determined to have a potential to occur within the existing 63 maintenance facility locations were also determined to have a potential

to occur within one or more of the 24 new maintenance facility locations. The potential to occur is based on the presence of suitable habitat within and adjacent to the maintenance facility locations and known occurrences of these species within 1 mile of the maintenance facility. These species include San Diego ambrosia (*Ambrosia pumila*), coastal California gnatcatcher (*Polioptila californica californica,* CAGN) and least Bell's vireo (*Vireo bellii pusillus,* LBVI).

In addition, two new maintenance facility locations (H-15 and H-18) are located within USFWSdesignated critical habitat for coastal California gnatcatcher. See Table 3-4 below for a description of which facility sites provide suitable habitat and/or designated critical habitat for LBVI, CAGN, and San Diego Ambrosia.

Facility Location	Site Name	LBVI	CAGN and/or Within its Designated Critical Habitat	San Diego Ambrosia
E-53	Reidy Creek – Rincon to Pleasantwood	Yes		Yes
E-54	Reidy Creek – Morning View	Yes		Yes
E-55	HARRF	Yes		
E-58	Reidy Creek Golf Course	Yes		Yes
E-60	Oak Valley Lane	Yes		Yes
H-15	Sierra Linda		Yes; Critical Habitat	
H-16	Concerto and Beethoven		Yes	Yes
H-17	Bear Valley Pkwy	Yes		Yes
H-18	Kit Carson Bike Trail	Yes	Yes; Critical Habitat	Yes
H-19	Encino and Amparo	Yes		
H-20	Sunset and Bear Valley	Yes		Yes
H-21	Via Rancho Pkwy and Sunset Drive	Yes		
SM-05	Woodland Pkwy	Yes		Yes

#### TABLE 3-4. SUITABLE HABITAT WITHIN NEW PROPOSED 24 FACILITY LOCATIONS

## Migratory Birds, Wildlife Movement, and Migration Corridors

In addition to the special-status species discussed above, as previously noted, migratory birds are protected under the MBTA. Under the act, most migratory birds are protected during the nesting season, as are the habitats in which they reside. Several species of migratory birds have the potential to use habitat within and adjacent to the facility locations during the nesting season.

Most of the 24 newly proposed maintenance facilities are highly urbanized concrete and earthen facilities supporting little or no native vegetation, or are within isolate patches of riparian habitat surrounded by urban and suburban development. These facilities provide little value as corridors for wildlife movement or nesting/foraging. Six facilities occur in riparian or upland habitats with potential connectivity to undeveloped expanses of natural habitats within the region (e.g., San Dieguito River Park Open Space Preserve). For example, facilities within the northern portion of Reidy Creek and Kit Carson Park are well connected to established riparian corridors to Escondido Creek; these habitats provide valuable movement corridors for fish and wildlife through otherwise highly developed City and private land. Additionally, one facility, H-16, occurs adjacent to the Hodges Reservoir Core Habitat Linkage as identified in the Draft North County Subarea Plan of the San Diego Multiple Species Conservation Plan.

# **Environmental Evaluation**

Would the project:

a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. As summarized above, three special-status species have the potential to occur within at least one of the 24 newly proposed maintenance facilities. These species are federally listed and include San Diego ambrosia, coastal California gnatcatcher, and least Bell's vireo (note that least Bell's vireo is also state-listed). These three listed species were also previously determined to have the potential to occur adjacent to one or more of the existing 63 maintenance facility locations.

O&M activities are necessary to ensure proper function and integrity of the channel system and structures, and the activities do not otherwise alter or expand the existing system. At each of the existing and proposed maintenance facilities, the City has made great efforts to constrain the extent and type of impact that would occur. Activities conducted within serviceable concrete-line facilities would not result in adverse or significant impacts as no impacts on sensitive habitat would occur within these facilities. Impacts on natural facilities with earthen-bottom channels would be limited by restricting tree-trimming to the understory and limiting activities to the smallest radius necessary to allow for positive flow and only impacting the minimal low-flow channel. The City would avoid native tree removal in all but three facility locations (E-60, H-19, and H-21) as described in Table 2-1 to allow crews access to the facility site or to allow for positive flow within the channel.

Even with the restriction activity impact areas, there is potential for significant impacts on sensitive species, from habitat modification or degradation, construction noise and lighting, and unauthorized trespass by O&M personnel. The proposed project would incorporate the same mitigation measures from the 2013 MND, with minor revisions to Mitigation Measures BIO-1 and BIO-14 to clarify when pre-activity surveys would be performed based on how the current permits are being implemented and to allow for native tree removal within identified new facility locations.

As listed in Table 3-10 below, several species-specific mitigation measures from the 2013 MND (BIO-17 through BIO-22), have been identified to avoid and minimize otherwise potentially significant impacts to a less-than-significant level. Moreover, additional mitigation measures from the 2013 MND would be implemented to reduce impacts on special-status species to a level below significance. Biological monitors would be on site during vegetation clearing and grubbing to flag sensitive resources for avoidance and halt work if necessary (Mitigation Measure BIO-1), and workers would be trained to identify key natural and cultural resources prior to starting work (Mitigation Measure BIO-2). Equipment staging would be located outside of sensitive habitats and limited to the project footprint (Mitigation Measure BIO 3); work areas would be fenced or flagged (BIO-4); trash and dust would be kept out of sensitive habitats (Mitigation Measures BIO-5 and BIO-6); use of night lighting would be avoided if at all possible, or the lights would be directed away from sensitive habitats (Mitigation Measure BIO-7). Site access would be controlled and vehicles restricted to existing access roads (Mitigation Measure BIO-8). Erosion control measures would ensure sensitive habitats are not degraded through sedimentation and/or topsoil loss (Mitigation Measure BIO-9). Tools and equipment would be washed prior to entering maintenance areas to limit the spread of invasive plant species (Mitigation Measure BIO-12). Trespass into riparian vegetation

would be prohibited, and impacts on riparian habitats would be minimized to the greatest extent possible (i.e., understory only within the confines of the project footprint; Mitigation Measure BIO-13). Native trees would be avoided except for within specified locations to allow access (Mitigation Measure BIO-14). The nesting season would be avoided if at all possible (Mitigation Measure BIO-15), with applicable preconstruction surveys, flagging of environmentally sensitive avoidance buffers, and biological monitoring (Mitigation Measures BIO-16 through BIO 18). Pre-activity surveys would be performed in areas with potential for state-listed and/or federally listed plant species, and, if detected, these species would be avoided (Mitigation Measure BIO-19). Weed whipping activities would be restricted in occupied San Diego ambrosia habitat (Mitigation Measure BIO-20). Mature oak trees would be avoided per City guidelines, as well as the establishment of an oak root protection zone when heavy equipment is to be used (Mitigation Measure BIO-21). The City's goal is 100 percent avoidance of any direct impacts on special-status species (Mitigation Measure BIO-22). In addition, impacts on habitats with potential to support sensitive species would be mitigated for, as described further under Threshold IV.b (Mitigation Measure BIO-23). Thus, with implementation of mitigation, impacts on sensitive and special-status species would be less than significant.

b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. Within the 24 new maintenance facilities, a total of approximately 14.95 acres of impacts on sensitive vegetation communities would result from the proposed project (Table 3-5). Sensitive vegetation communities are those classified as Vegetation Groups A and B as described in Table 3-6. The majority of impacts on sensitive vegetation communities from the 24 new maintenance facilities (14.12 acres) would result from nonnative vegetation clearing and native vegetation trimming using hand tools only. These impacts would be temporary and are not considered significant. A total of approximately 0.83 acre of impacts on sensitive vegetation communities would result from vegetation and sediment removal within the 24 new maintenance facilities and are considered potentially significant.

	Impact Acreage				
Vegetation Type	24 Proposed Sites	Existing 63 Sites			
Sensitive Vegetation Communities—Mitigation Proposed					
Tier I					
Alkali Seep		< 0.01			
Cismontane Alkali Marsh		< 0.01			
Coastal and Valley Freshwater Marsh		0.10			
Diegan Coastal Sage Scrub	< 0.01				
Engelmann Oak Woodland		0.03			
Southern Arroyo Willow Riparian Forest	0.02	0.31			
Southern Coast Live Oak Riparian Forest	0.04				
Southern Cottonwood-Willow Riparian Forest	0.57	0.36			
Southern Riparian Scrub	0.03	0.01			
Southern Willow Scrub	0.07	< 0.01			
Tier I Subtotal	0.73	0.81			

TABLE 3-5. SENSITIVE VEGETATION COMMUNITY IMPACTS

	Impact Acreage			
Vegetation Type	24 Proposed Sites	Existing 63 Sites		
Tier II				
Disturbed So. Cottonwood-Willow Riparian Forest	0.01			
Disturbed Wetland		0.25		
Emergent Wetland		< 0.01		
Nonnative Grassland	0.01			
Nonnative Woodland	0.09			
Tier II Subtotal	0.10	0.25		
Tier I and II Total <sup>1</sup>	0.83	1.06		
Sensitive Vegetation Communities—Mitigation No (Hand Tool Work Only or Temporary BMPs)	ot Proposed			
Coastal and Valley Freshwater Marsh	0.81	0.10		
Disturbed So. Cottonwood-Willow Riparian Forest	6.82			
Disturbed Wetland		0.89		
Emergent Wetland		< 0.01		
Eucalyptus Woodland	0.05	0.03		
Mulefat Scrub		< 0.01		
Nonnative Grassland	3.84	< 0.01		
Nonnative Woodland	1.05			
So. Cottonwood-Willow Riparian Forest	1.53	0.07		
Southern Arroyo Willow Riparian Forest		0.02		
Southern Willow Scrub	0.02			
Total <sup>1</sup>	14.12	1.11		
Non-Sensitive (Tier IV) Vegetation Communities-	-Mitigation Not Proposed			
Open Water	0.04	1.23		
Unvegetated Channel	0.34	0.08		
Disturbed Habitat	0.06	0.54		
Urban / Developed	1.22	71.94		
Total <sup>1</sup>	1.66	73.79		

<sup>1</sup>Total acreage may not add up due to rounding of decimal places.

# TABLE 3-6. PROPOSED VEGETATION CATEGORIES FOR DETERMINING RESOURCE TIERS

Category	Description	Community
А	Native Vegetation Communities	Alkali Seep
		Cismontane Alkali Marsh
		Coast Live Oak Woodland
		Coastal and Valley Freshwater Marsh
		Diegan Coastal Sage Scrub
		Engelmann Oak Woodland
		Mulefat Scrub
		Southern Arroyo Willow Riparian Forest
		Southern Cottonwood-Willow Riparian Forest
		Southern Riparian Scrub

Category	Description	Community
		Southern Coast Live Oak Riparian Forest
		Southern Willow Scrub
В	Disturbed Wetland	Disturbed So. Cottonwood-Willow Riparian Forest
		Disturbed Wetland
		Emergent Wetland
		Nonnative Grassland
		Nonnative Woodland
		Eucalyptus Woodland
С	Disturbed, Developed, or	Disturbed Habitat
	Unvegetated Land Covers	Open Water
		Unvegetated Channel
		Urban/Developed

As mentioned above, at each facility the City has made great efforts to constrain the impact area to existing concrete-lined features and otherwise developed/disturbed areas. In natural facilities with native vegetation growing in earthen-bottom or non-serviceable concrete channels, the City would limit impacts from removal of accumulated sediment and herbaceous vegetation, weed and nonnative tree removal, one-time native tree removal, and native shrub trimming. The City would also limit removal of native riparian trees and shrubs to three facility locations (E-60, H-19, and H-21) to allow crews access to the facility site and to maintain positive flow. Minor trimming would occur at the other facility locations.

As listed in Table 3-10 below, several mitigation measures from the 2013 MND (Mitigation Measures BIO-1 through BIO-5, and Mitigation Measures BIO-8 through BIO-14) would be implemented to avoid and minimize significant impacts (direct and indirect) on sensitive vegetation communities to the greatest extent practicable. These measures would include staking/flagging of maintenance footprints, only allowing access within designated access roads, requiring equipment and tools to be washed prior to entering the site to prevent the spread of invasives, and minimizing impacts on native riparian habitat and native trees. In addition to the measures detailed above under Threshold IV.a, dewatering would be conducted in accordance with water quality BMPs and under applicable permits (Mitigation Measure BIO-10).

Even with implementation of avoidance and minimization measures, significant impacts on 0.83 acre of sensitive habitat would remain with project implementation. However, the project would implement Mitigation Measure BIO-23, requiring compensatory mitigation for impacts on habitats through creation, restoration, and/or enhancement. Therefore, impacts on sensitive habitats would be less than significant. Mitigation ratios would be based on resource tiers. These tiers indicate the sensitivity of the resource, with Tier I being the most sensitive (native habitat areas) and Tier IV (unvegetated concrete channels) being the least sensitive. These Tiers, and the proposed mitigation types are summarized in Table 3-7. Therefore, with implementation of the mitigation measures discussed above, impacts on sensitive vegetation communities would be less than significant.

# TABLE 3-7. PROPOSED RESOURCE TIERS AND IMPACT THRESHOLDS FOR THE ESCONDIDO CHANNEL MAINTENANCE PROJECT

<b>Resource Tier</b>	Description	Proposed Mitigation
Tier I	Includes native habitats (i.e., Category A vegetation communities per Table 3-6) growing within earthen facilities or non-serviceable concrete facilities. This includes wetland waters and riparian extent.	2:1 in the form of restoration or enhancement as needed to achieve overall 2:1 ratio.
Tier II	Includes nonnative habitats and unvegetated areas (i.e., Category B vegetation communities and Category C land covers per Table 3-6) occurring within earthen facilities or non- serviceable concrete facilities. These are mostly nonwetland waters but may include disturbed wetland waters.	<ul> <li>1.5:1 for natural drainages, in the form of restoration or enhancement.</li> <li>1:1 for natural-lined roadside drainage ditches (i.e., Category C land covers) through on-site channel recontouring.</li> </ul>
Tier III	Includes vegetated areas (i.e., Category A [herbaceous] and Category B vegetation communities per Table 3-6) occurring within serviceable concrete facilities. These are isolated, low-quality patches of opportunistic vegetation that are not likely to persist (e.g., flow associated with a storm event could easily blow out these habitat "islands"). Note that mature tree/shrub vegetation communities of Category A cannot occur on serviceable concrete lining by definition; if enough sediment is present to support native tree/shrub vegetation communities of Category A, the structure is non- serviceable by definition, and the impacts would be elevated to Tier I.	No mitigation
Tier IV	Includes unvegetated areas (i.e., Category C per Table 3-6) occurring within serviceable concrete facilities.	No mitigation

Note: Does not include impacts determined to be non-significant (temporary BMPs and vegetation removal with hand tools).

c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?

**Less than Significant with Mitigation Incorporated.** As shown in Tables 3-8 and 3-9 below, 1.57 acres of the new maintenance facilities project impacts would occur within waters of the U.S. and State, and 16.42 acres would occur within CDFW jurisdictional waters. Of the 24 new facility locations, 5 will result in a discharge of dredged material within waters of the U.S. and State during maintenance activities that is regulated by the USACE and RWQCB, resulting in 0.64 acre of impacts. These facility locations include: E-53, E-56, E-58, E-60, and H-19. The remaining facility locations would only result in temporary impacts (0.93 acre) associated with use of temporary diversion structures during maintenance activities.

Activities proposed within all 24 new facility locations are regulated by the CDFW. Of the 16.42 acres, 15.37 acres would occur in serviceable concrete-lined features or in earthen channels that require nonnative vegetation removal and vegetation trimming with hand tools only. Potential impacts on Tiers

III and IV, as well as temporary BMP installation and selective nonnative vegetation removal with hand tools within Tier I and Tier II resources, are not considered significant and would not have a significant impact on federal or state-protected wetland resources.

Resource Tiers	24 Proposed Maintenance Facilities	Existing 63 Maintenance Facilities				
Earthen or Non-Serviceable Concrete Lining (Mitigation Required)						
Wetland Waters						
Tier I	0.62	0.55				
Tier II		0.25				
Non-wetland Waters						
Tier II	0.03	0.20				
Total Impacts – Mitigation Required <sup>1</sup>	0.64	1.00				
Jurisdictional Serviceable Concrete Lining and Earthen Channel use of Temporary BMPs (Mitigation Not Required)						
Wetland Waters						
Tier I	0.03					
Tier II	0.01					
Tier III	0.02	0.11				
Non-wetland waters						
Tier I	<0.01					
Tier II	0.22					
Tier III		0.81				
Tier IV	0.64	69.75				
Total Impacts—No Mitigation Required <sup>1</sup>	0.93	70.66				
Project Impacts on Waters of the U.S. and State, All Resource Tiers <sup>1</sup>	1.57	71.66				

#### TABLE 3-8. JURISDICTIONAL WATERS OF THE U.S. AND STATE IMPACT BY TIERS

<sup>1</sup> Acreages may not add up directly due to rounding.

#### TABLE 3-9. CDFW JURISDICTIONAL WATERS IMPACT BY TIERS

Resource Tiers	24 Proposed Maintenance Facilities	Existing 63 Maintenance Facilities			
Earthen or Non-Serviceable Concrete Lining (Mitigation Required)					
Riparian					
Tier I	0.72	0.81			
Tier II	0.11	0.25			
Channel Bed and Bank					
Tier I	<0.01	<0.01			
Tier II	0.22	0.33			
Total <sup>1</sup>	1.05	1.39			
Jurisdictional Serviceable Concrete Lining and Earthen Channel Hand-Tool Work (Mitigation Not Required)					
Riparian					
Tier III	14.06	0.14			

Resource Tiers	24 Proposed Maintenance Facilities	Existing 63 Maintenance Facilities
Channel Bed and Bank		
Tier III		0.95
Tier IV	1.31	71.77
Total Impacts—No Mitigation Required <sup>1</sup>	15.37	72.85
Project Impacts on CDFW Jurisdictional Waters, All Resource Tiers <sup>1</sup>	16.42	74.24

<sup>1</sup> Acreages may not add up directly due to rounding.

Permanent impacts on Tier I (native riparian/wetland) and Tier II (nonnative riparian/wetland) resources are considered significant. Potentially significant project impacts would occur on 1.05 acres of Tier I and II wetland or riparian habitat (i.e., federal and/or state jurisdictional habitat) (Tables 3-8 and 3-9) due to maintenance activities proposed at the new facility locations.

As listed in Table 3-10 below, several mitigation measures would be implemented to avoid and minimize significant impacts (direct and indirect) on jurisdictional waters to the greatest extent practicable and would include: equipment staging, stockpiling, and refueling would be located in upland areas away from wetlands, and project activities would be limited to the project footprint and surrounding developed access routes (Mitigation Measure BIO-3); trash and dust would be kept out of sensitive habitats (Mitigation Measures BIO-5 and BIO-6). In addition, erosion control measures would ensure waters and wetlands are not degraded through sedimentation and/or topsoil loss (Mitigation Measure BIO-9). Dewatering would be conducted in accordance with water quality BMPs and under applicable permits (Mitigation Measure BIO-10), fires would be prevented through safe driving and smoking practices (Mitigation Measure BIO-11), and the spread of exotic weed species would be avoided by proper washing of vehicles upon entry and exit (Mitigation Measure BIO-12). Trespass into riparian vegetation would be prohibited, and impacts on riparian habitats would be minimized to the greatest extent possible (i.e., understory only within the confines of the project footprint) (Mitigation Measure BIO-13). Native riparian trees and shrubs would be limited to two pre-approved locations (Mitigation Measure BIO-14).

Due to the nature of the project, the proposed project necessitates work within and around jurisdictional waters. The City has made great efforts to minimize impacts to the greatest extent practicable, while also maintaining the objectives of the project; however, impacts on potential jurisdictional waters remain a part of the proposed project.

Even with avoidance and minimization measures, significant impacts on 1.05 acres of jurisdictional waters would remain with project implementation. Although project impacts are considered permanent as maintenance activities would modify the jurisdictional waters contours and elevation as well as reduce the functions and services provided by these waters, no loss of jurisdictional waters would occur. In addition, the project would implement Mitigation Measure BIO-23, requiring compensatory mitigation for impacts on habitats through restoration and/or enhancement. Therefore, impacts on federal or state-protected wetland resources would be less than significant. Mitigation ratios would be based on resource tiers. These tiers indicate the sensitivity of the resource, with Tier I being the most sensitive (native habitat areas) and Tier IV (unvegetated concrete channels) being the least sensitive. These tiers, and the proposed mitigation types, are summarized in Table 3-7. Therefore, with implementation of the mitigation measures discussed above, impacts on federal-or state-protected wetland resources than significant.

d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

**Less-than-Significant Impact.** The proposed project involves minimally invasive vegetation and sediment removal within maintenance facilities that are accessible primarily via urban hardscape. Maintenance activities would be timed to avoid significant impacts on special-status species, would be designed to avoid native riparian tree removal (other than the three identified facility locations: E-60, H-19, and H-21), and would not involve the permanent placement of obstructive apparatus or structures within native habitats. The small impact footprint and low invasiveness of maintenance at each facility, coupled with the urbanized setting of most facilities, would result in less than significant impacts on wildlife movement and habitat corridors from the project.

e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

**Less than Significant with Mitigation Incorporated.** The City defines protected trees as "any oak (Quercus sp.) which has a ten (10) inch or greater diameter at breast height (DBH), or any other species or individual specimen listed on the local historic register, or determined to substantially contribute to the historic character of a property or structure listed on the local historic register, pursuant to Article 40 of the Escondido Zoning Code (2001)." Four proposed maintenance facility locations (E-55, H-19, H-20, and SM-05) are located in areas mapped as coast live oak woodland or southern coast live oak riparian forest. These protected trees would be avoided during project activities per Mitigation Measures BIO-14 and BIO-21, which require the avoidance of all native trees other than the identified locations (E-60, H-19, and H-21) and protection of an oak tree's root protection zone. Therefore, with implementation of mitigation impacts would be less than significant.

f. Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan?

**Less-than-Significant Impact.** The project study area occurs within one regional conservation planning area: the City of Escondido Draft Subarea Plan under the MHCP. The project study area occurs within City limits and thus outside of the North County Multiple Species Conservation Plan (MSCP) area.

The Draft Escondido Subarea Plan (City of Escondido 2001) documents core conservation areas, known as Hardline Reserves. Sites E-55, H-18, SM-05, E-58, and H-15 occur within Hardline Reserve areas. The Draft Escondido Subarea Plan calls for conservation of between 90 and 100 percent of resources within preserve areas and no net loss of wetlands. Because the project would avoid take of special-status species and would result in no net loss of sensitive habitats or jurisdictional waters, the project is consistent with conservation measures defined in the Draft Escondido Subarea Plan. Thus, impacts would be less than significant.

# Mitigation Measures for Biological Resources

#### TABLE 3-10. MITIGATION MEASURES FOR BIOLOGICAL RESOURCES

Measure	Description
Biological Resources G	eneral Avoidance & Minimization
BIO-1	The City will designate a qualified biologist(s) to oversee monitoring and compliance
Biological Monitors +	with protective measures for the biological resources. The qualified biologist(s) will
City Inspectors	maintain communications with the appropriate personnel (project manager, resident engineer, project foreman) to ensure that issues relating to biological resources are appropriately and lawfully managed. The qualified biologist(s) will submit reports that document compliance with these measures to the wildlife agencies upon request or, at a minimum, are included in an end-of-the-year report. In addition, the qualified biologist(s) will perform the following duties:
	a. Conduct pre-activity surveys to verify site conditions and identify sensitive biological resources that require avoidance. Pre-activity surveys will occur at 1) sites that have not yet been maintained; earthen sites that have not been maintained for two or more years; and concrete-lined sites that have not been maintained for three or more years; 2) sites where the maintenance activity has not occurred within 30 days from the date of the pre-activity survey; and 3) any site where maintenance work will occur within the nesting season and suitable avian habitat is present within 500 feet of the site.
	<ul> <li>b. If site conditions are different than the established baseline, the maintenance site will be reevaluated for federally listed species and their habitats. The U.S. Army Corps of Engineers will be notified of the new conditions prior to work and will have 14 days to coordinate with the U.S. Fish and Wildlife Service to respond with amended permit conditions relevant to the site. Otherwise, work will proceed using existing avoidance, minimization, and mitigation measures set forth in the permits, as applicable to the new site conditions.</li> <li>c. Monitor O&amp;M activities when sensitive biological resources have been flagged for avoidance during pre-activity surveys by a qualified biologist(s). The qualified biologist(s) will have authority to halt work, if necessary, and will be responsible for coordinating with the U.S. Army Corps of Engineers (who will consult as needed with the U.S. Fish and Wildlife Service) to ensure the proper implementation of species and habitat protection measures. Any breech of the conservation measures will be reported to Service by the qualified biologist(s) within 24 hours of its occurrence.</li> <li>d. Erosion control measures will be regularly checked by City inspectors, resident engineer, and/or project foreman. The qualified biologist(s) will also monitor erosion control measures when he/she is on-site. Site-specific best management practice (BMP) plans will be reviewed by the qualified biologist(s) and modified, if necessary, prior to implementation. Fencing and/or erosion control measures at maintenance facilities will be inspected by on-site personnel a minimum of once per week until</li> </ul>
	completion of the maintenance activity.
BIO-2	Each employee will participate in a training/awareness program that will be presented by
Worker Awareness	the qualified biologist or City staff member, prior to working on the proposed project.
BIO-3 Staging + Stockpiling	The City will ensure that all work materials, staging, storage, dispensing, fueling, and equipment maintenance activities are located in upland areas outside of sensitive habitat, and that adequate measures are taken to prevent any potential runoff from entering waters of the U.S. and State. Staging areas will be located within facility footprints or adjacent urban/developed hardscape.
BIO-4	The City will temporarily fence (with silt barriers) or flag the limits of project impacts
Fencing and Flagging	(including staging areas and access routes), as needed to prevent additional habitat impacts and prevent the spread of silt from the construction zone into adjacent habitats to be avoided. When deemed necessary, fencing or flagging will be installed in a manner that does not impact habitats to be avoided. If work occurs beyond the fenced or flagged limits of impact, all work will cease until the problem has been remedied to the
	satisfaction of the City. Temporary construction fencing or flagging will be removed upon project completion.
BIO-5	Spoils, trash, or any debris will be removed off-site to an approved disposal facility.

Measure	Description	
Trash Removal		
BIO-6 Dust Abatement	The project foreman and biological monitor (See BIO-1 for role of biological monitor)) will periodically monitor the work area to ensure that maintenance-related activities do not generate excessive dust.	
BIO-7 Light and Glare	Maintenance activities will be conducted during normal business hours, and without the use of lighting whenever possible, excepting emergencies. If emergency maintenance activities occur at night, all project lighting (e.g., staging areas, equipment storage sites, roadway) will be directed onto the roadway or maintenance facility footprint and away from sensitive habitat. Light glare shields may also be used to reduce the extent of illumination into adjoining areas.	
BIO-8	Vehicle traffic will be restricted to existing access roads except as specified in the RGP.	
Access		
BIO-9 Post-Activity Erosion and Sediment Control	Post-maintenance activity erosion and sediment control will be implemented as applicable, including landscape planting and other biotic slope stabilization techniques (e.g., hydroseed and/or hydromulch). Erosion control blankets having plastic mesh with the potential to ensnare amphibians and reptiles will not be used in areas these animals inhabit.	
BIO-10 Water Diversion/ Dewatering	All surface waters, including ponded waters, will be diverted away from areas undergoing dredging or vegetation removal and/or any other activity that may result in a discharge to the receiving water to the extent practicable. When water diversion is necessary, a structural BMP would be implemented to temporarily detain or reroute drainage around the work area based on field conditions, drainage characteristics, seasonal variation, maintenance duration, and practicability of application. The intent of the temporary BMP implementation would be to avoid or minimize water interference in the work area and water quality impacts to downstream receiving waters. When maintenance is completed, the flow diversion structure will be removed as soon as possible in a manner that allows flow to resume and prevent debris or sediment accumulated from returning to the stream. If dewatering is conducted, either a pump will move water to an upland disposal site, or a sediment basin or other structure will be used to collect and treat the water. If applicable, a National Pollutant Discharge Elimination System permit may be required. If not applicable, the water returned to the waterway should be equivalent in nature to pre- activity conditions. Additional water quality measures may arise as conditions of the 401 Water Quality Certification. The City will adhere to these conditions in addition to this avoidance measure.	
BIO-11 Fire Prevention	Wildfires will be prevented by exercising care when driving and by not parking vehicles where catalytic converters could ignite dry vegetation. In times of high fire hazard, trucks may need to carry water and shovels or fire extinguishers in the field. No smoking or disposal of cigarette butts will take place within vegetated areas.	
BIO-12 Minimizing Spread of Exotic Plant Species	Tools and equipment will be washed in designated areas prior to entering and exiting work areas, to ensure no plant material is transported on- or off-site.	
Riparian Vegetation Avoidance & Minimization		
BIO-13 Riparian Vegetation Avoidance	Measures will be taken to avoid and minimize impacts to native riparian vegetation to the greatest extent possible. This includes unnecessary or unauthorized trespass by workers and equipment, staging and storage of equipment and materials, refueling activities, and littering or dumping debris in riparian areas.	
BIO-14 Native Tree Avoidance	Native Tree Avoidance – The City will only remove mature native trees within identified locations (E-60, H-19, and H-21). Outside of these identified locations, the City will not remove native trees, including, but not limited to, willow (Salix spp.), cottonwood (Populus spp.), western sycamore ( <i>Platanus racemosa</i> ), and oak (Quercus sp.). The	

Measure	Description
	City may trim these species up to a height of 7 feet, barring oaks and sycamores with a
	diameter breast-height greater than 9.5 inches, which may not be pruned.
	Where access and operation of equipment is limited, portions of trees may be trimmed/pruned to no more than 13 feet provided a certified arborist and/or project biologist determines that such pruning will not result in a significant impact to the health of the tree. Trimming/pruning of native trees will be conducted outside the general avian nesting season (February 15 through September 15), when feasible. If work is required during the avian nesting season then surveys will be required as outlined in BIO-15 through BIO-17 to ensure avoidance of nesting birds. Trimming/pruning shall be done in a manner to maintain the trees overall health and appearance. Cutting of branches greater than 2 inches in diameter will be done by a certified arborist.
Migratory Bird Avoidand	ce & Minimization
BIO-15 Nesting Season Avoidance	Vegetation clearing shall occur outside of the typical breeding season for raptors and migratory birds (February 15 through September 15). However, if this is not possible, then a qualified biologist will conduct a raptor nesting survey prior to construction to determine the presence or absence of nests in the riparian habitat, and the potential need for additional project mitigation measures.
BIO-16 Nest Buffers	To the greatest extent feasible, vegetation clearing, dredging, and other mechanized activities within 500 feet of undeveloped vegetation communities will be conducted outside the breeding season for federally protected migratory and listed bird species. In situations where these types of maintenance activities will occur adjacent to undeveloped vegetation communities during the breeding season (February 15 through September 15), the following measures will be implemented:
	<ol> <li>A preconstruction survey for migratory birds shall be performed by a qualified biologist within 3 days prior to any removal of trees, shrubs, or structures on the project site. If no active nests are found, then no further action will be warranted.</li> </ol>
	<ol> <li>If an active nest is detected on or within 300 feet of the project site (500 feet for raptors), no work shall be conducted within a 300-foot radius (500 feet for raptors) of the detected nest until a biological monitor determines the nest is no longer active.</li> </ol>
Special-Status Species	Avoidance & Minimization
BIO-17 State- Listed and Federally Listed Bird Species	For those facilities where state-listed and/or federally listed bird species have potential to occur within the project footprint, a qualified biologist will make three separate visits (on separate days), with the final visit being not more than 3 days prior to the maintenance activity. These three survey visits will supersede the preconstruction surveys required under BIO-1 and BIO-15.
BIO-18 Bat Species	For those facilities where special-status bat species have potential to occur within the project footprint, a qualified biologist will survey for roosting bats concurrently with the preconstruction surveys required under BIO-1 and BIO-15. The same conditions identified in BIO-15 will apply to roosting bats.
BIO-19 Rare Plants	Pre-activity Surveys – For those facilities where San Diego ambrosia has the potential to occur within the maintenance site footprint, a qualified biologist(s) will perform focused surveys prior to maintenance activities and will flag avoidance areas if the species is detected. If ambrosia is detected within the maintenance footprint and cannot be avoided, O&M activities within that maintenance footprint will be postponed and consultation will be reinitiated by the U.S. Army Corps of Engineers with the U.S. Fish and Wildlife Service to address adverse effects on ambrosia and develop feasible impact minimization measures (e.g., plant and/or seed salvage). O&M activities at that maintenance site will not resume until consultation between the U.S. Army Corps of Engineers and U.S. Fish and Wildlife Service is completed and all feasible measures are implemented. Results of focused surveys for ambrosia will be valid for 3 years; facilities with survey results older than 3 years may require repeat surveys.

Measure	Description
BIO-20 San Diego Ambrosia	Weed whipping or other non-ground disturbing activities may occur in occupied habitat for San Diego ambrosia (when presence is documented by focused surveys conducted every 3 years as described in BIO-19) if the following measures are implemented:
	a. Conduct activities outside of the blooming period (April 1 through October 31) and 72 hours after any significant rain events (0.25 inch or more), when the soil is hard, and when no vegetative growth is visible.
	b. Avoid the application of herbicide in areas where listed plant species occur (unless concurred with by the Agencies for specific problem plants such as artichoke thistle). If no listed plant species are present, herbicide application may occur under the direction of a licensed applicator.
	c. Use a machine mower only if soil is not wet or muddy.
	d. Remove weed thatch carefully so that soil is not disturbed (i.e., avoid disturbing the seed bank or corms).
BIO-21 Oak Trees	Oaks require special avoidance. Heavy equipment shall not encroach on the root protection zone (i.e., 50 feet from the drip line) within undeveloped areas, nor will equipment be staged/stockpiled in these areas. A qualified biologist shall flag root protection zones as off-limits at applicable facilities, prior to starting work. Specific types of work and equipment may be approved within the root protection zone if approved by a certified arborist.
BIO-22 Complete Avoidance of Special-Status Species	The City will strive for 100 percent avoidance of direct impacts to special-status plant and wildlife species and will use biological monitors and preconstruction surveys to ensure avoidance (per BIO-1, BIO-16, BIO-17, BIO-18, BIO-19, BIO-20, and BIO-21).
Biological Resources Co	ompensatory Mitigation
	All potentially significant project impacts will occur within habitats that are also potential jurisdictional waters. Compensatory mitigation for jurisdictional waters, as described below, will reduce potentially significant impacts to natural habitats to a level below significance. Because the project will avoid potentially significant impacts to special-status species and wildlife migration, no mitigation is necessary above and beyond the habitat-based compensatory mitigation for jurisdictional waters. As demonstrated in the previous section, the City has made great efforts to minimize impacts to the greatest extent practicable, while also maintaining the objectives of the project; however impacts to potential jurisdictional waters remain a part of the proposed project.
BIO-23 Compensatory Mitigation	These impacts will be mitigated to a level below significance through permittee- responsible off-site mitigation in the form of restoration and/or enhancement or through the purchase of restoration and enhancement credits at the San Luis Rey Mitigation Bank. The City is currently pursuing permittee-responsible mitigation in the form of restoration and enhancement activities within Kit Carson Park. The City is currently in negotiations with the agencies and has prepared a draft mitigation plan for their review and approval. A final mitigation plan will be approved as a condition of the 404, 401, and 1602 authorizations, respectively. Final mitigation plans, including the North County MSCP and Draft Escondido Subarea MHCP. In the event that the Kit Carson Park mitigation or other permittee-responsible site is not approved, the City will purchase mitigation credits from San Luis Rey Mitigation Bank or another appropriate bank approved through the applicable authorizations. Mitigation ratios will be based on resource tiers, as defined above (Table 3-6 and Table 3-7 of the IS/MND) for impacts on 0.64-acre of waters of the U.S. and 1.05 acres of CDFW jurisdictional waters.

# v. CULTURAL RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wc	ould the project:				
a.	Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?		$\boxtimes$		
b.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?		$\boxtimes$		
c.	Disturb any human remains, including those interred outside of dedicated cemeteries?		$\boxtimes$		

# Background

The following section provides a brief discussion of the cultural resources within the city of Escondido, including a description of existing conditions, an outline of significance criteria and an impact analysis of the potential effects the project could have on eligible or significant cultural resources, and proposed mitigation measures for the protection of these resources. Information from the City's 2013 MND and the Cultural Resources Technical Report prepared by ICF in 2020 (Appendix D) was used in the preparation of this section.

## **Existing Conditions**

## Cultural Setting

The sequence of human occupation of coastal southern California begins in the Paleoindian period (11,500–8500 B.P.), a time in which adaptations were formerly believed to be focused on the hunting of large game, but are now recognized to represent more generalized hunting and gathering, with considerable emphasis on marine resources (Erlandson and Colten 1991, Jones 1991). The following period, the Archaic (8500–1300 B.P.) is traditionally seen as encompassing both a coastal and an inland focus, with the coastal Archaic represented by the shell middens of the La Jolla complex and the inland Archaic represented by the Pauma complex. The Late Prehistoric period (1300–200 B.P.) is marked by the appearance of small projectile points indicating the use of the bow and arrow, the common use of ceramics, and the replacement of inhumations with cremations.

The Spanish Period (1769–1821) represents a period of Euroamerican exploration and settlement. Dual military and religious contingents established the San Diego Presidio and the San Diego and San Luis Rey Missions. The Mission system used Native Americans to build a footing for greater European settlement. The Mission system also introduced horses, cattle, other agricultural goods, and implements; and provided construction methods and new architectural styles. The cultural and institutional systems established by the Spanish continued beyond the year 1821, when California came under Mexican rule.

Many Spanish practices survived into the early part of the Mexican period (1821–1848). The secularization of the missions in 1834 brought notable changes to the land ownership in the region. After secularization, large tracts of land were granted to individuals and families and the rancho system was established. Cattle ranching dominated other agricultural activities and the development

of the hide and tallow trade with the United States increased during the early part of this period. The Pueblo of San Diego was established during this period and Native American influence and control greatly declined. The Mexican Period ended when Mexico ceded California to the United States after the Mexican-American War of 1846-1848. Escondido was part of a land grant bestowed to former Governor Juan Bautista Alvarado in 1843 by then Governor Manuel Micheltorena. Alvarado built an adobe home and raised cattle on the property.

The American period (1848–present) began when Mexico ceded California to the United States as part of the Treaty of Guadalupe Hidalgo. While some of the previous land claims were validated, much of the land that was once part of the ranchos became available for settlement. After the death of Juan Bautista Alvarado in the 1850s his heirs sold the rancho to Oliver S. Witherby, a judge from San Diego. The land changed hands over the years until finally a group of land speculators from Kansas purchased it in 1883 and began viticultural (growing wine grapes) pursuits in the valley. Churches, schools, and the Escondido Hotel would be constructed in a short time. The railroad was completed in late 1887 and the first freight was shipped from the Santa Fe depot at the west end of Grand Avenue in early 1888. During this time the portions of the proposed project within Escondido was agricultural land and would not be developed until well into the twentieth century.

#### History of the Project Area

After the arrival of Spanish explorers, the area that is now Escondido became part of the Spanish mission system. In 1843, the area was part of a rancho (El Rincon del Diablo) granted to Juan Bautista Alvarado, and in 1860, it was acquired by the Wolfskill brothers who planted vineyards and raised sheep (McGrew 1988). In 1883, much of the area was purchased by the Escondido Company, a group of Stockton speculators who subdivided the property 3 years later. In 1886, a 12,000-acre tract was purchased by a group of investors who formed the Escondido Land and Town Company, which platted the City of Escondido and lobbied for construction of a railroad connection to the coast. Aggressive land promotions during the latter half of the 1880s drew many people to the area, and although growth had slowed considerably during the 1890s, settlers continued to arrive in the back country, establishing small farms and ranches throughout the area. This migration took a sharp decline with the onset of the Depression during the 1930s, as many of the rural farmers abandoned their farms and moved to urban areas. The number of people living on farms fell 63 percent during the 1930s, while San Diego County's overall population increased by 38 percent (Van Wormer and Walter 1991). Nevertheless, farming and ranching continued to be the major focus of Escondido's economy until the 1960s.

## Cultural Resources within the Project Area

Over the last decade, ICF has conducted several cultural resources investigations near the project area, including a cultural resources survey for the proposed project covering the 24 maintenance sites, one expanded maintenance site, and biological mitigation site (Appendix D). These investigations consisted of records searches, field surveys, and test excavations, the result of which reveal that the city of Escondido contains both historical and archaeological resources.

#### **Record Search**

A cultural resources records search for the proposed additional facilities was conducted at the South Coastal Information Center (SCIC) in May and June of 2019, using a 0.5-mile buffer around each of the facility locations. The records search indicates that 92 cultural resources are located within a 0.5-mile radius of the study area, 8 of which intersect with project facilities and the 50-foot survey buffer:

a prehistoric lithic scatter (P-37-000572), a prehistoric habitation site (P-37-008280), prehistoric bedrock milling sites and associated artifacts (P-37-006726, P-74-6727, and P-37-012601), a prehistoric isolated mano and flake (P-37-015577), a historic residence (P-37-017871), and a historic flume (P-37-030889).

Only P-37-030889, the Vista Irrigation District Bench Flumes, previously recorded by Van Wormer in 2009, has been evaluated for its potential eligibility for the California Register of Historical Resources (CRHR) or National Register of Historic Places (NRHP). Per Jow and Dolan (2012) "[t]he bench flumes were built as part of the water distribution system efforts of the 1920s that brought remarkable growth within the district. The flumes were constructed as above-ground gunite canals with a gunite domed cover, connected by steel and concrete pipe siphons (Robbins-Wade, Giletti and Van Wormer 2009). For the most part, the siphons are underground. The gunite bench flumes and above ground siphon segments have been evaluated as potentially eligible for the NRHP at a local level of significance as well as for designation on the CRHR". Van Wormer recommended that the bench flumes and siphons qualify for listing on the CRHR and NRHP because they have been the primary water conveyance system in Escondido for the Vista Irrigation District since the system was constructed in the mid 1920s (Criteria A for NRHP, Criteria 1 for CRHR). The bench flumes also qualify for listing due to their unique design and construction technique (Criteria C for NRHP, Criteria 3 for CRHR).

#### **Field Survey**

ICF archaeologists conducted a pedestrian survey of the 361-acre survey area in October and November 2019. The survey area consisted of each newly proposed facility and a 50-foot buffer. The archaeologists examined the ground surface within each survey area for the presence of prehistoric artifacts and features, prehistoric milling surfaces on exposed bedrock, and historic artifacts and features. Visibility ranged from good in road shoulders to extremely poor in areas with dense vegetation. Vegetation within the Area of Potential Effect (APE) consisted of agricultural land, native and nonnative grasses, disturbed native chaparral, and landscaped residential yards and roadsides. For this survey, visibility was characterized as good to excellent if 75 percent or more of the ground was visible, fair to good if 25–75 percent was visible, and poor to fair if 5–25 percent of the ground was visible. The archaeologists took notes and photographs of the project survey area and all identified cultural resources.

During the field surveys, none of the eight previously recorded archaeological resources were relocated. One new prehistoric bedrock milling site, ICF-ESC94-P-001, was identified. For the most part, this appears to be due to environmental conditions that have occurred since the resources were originally recorded. Some of the resources appear to have been buried or eroded away, have been destroyed by later development, exist underground in the APE, or were inaccessible because of dense vegetation. Discrepancies may also be due to sites being recorded prior to the common use of Geographic Information Systems (GIS) in site recording, resulting in the original recorded locations being off or erroneously mapped.

# Significance Criteria and Impact Analysis

## Significance Criteria

Under CEQA, the lead agency is responsible for determining whether a project may have a significant effect on historical and archaeological resources. Section 21083.2 of the Public Resources Code states that if the lead agency determines that the project may have a significant

effect on "unique" archaeological resources, an environmental impact report shall address these resources. A unique archaeological resource is an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one of the following criteria:

- 1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
- 2. Associated with the lives of persons important to local, California or national history.
- 3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
- 4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

# **Environmental Evaluation**

Would the project:

a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

**Less than Significant with Mitigation Incorporated.** There is one potentially significant cultural resource, P-37-030889, the Vista Irrigation District Bench Flumes, located within the project area. However, because it is below ground at a depth far below proposed ground-disturbing activities it would not be affected by the proposed maintenance activities. Intensive pedestrian surveys were unable to be completed at nine of the new facilities due to access issues or poor visibility from dense vegetation or are in proximity to recorded cultural resources locations. These facility locations (E-54, E-55, E-58, E-60, H-19, H-16, H-18, SM-05, and the Kit Carson Park Downstream Mitigation site) have the potential for resources to be present. However, and consistent with the 2013 MND, any adverse impacts on unknown cultural resources would be mitigated to a less than significant level with the implementation of Mitigation Measures CR-1, CR-2, CR-3, CR-4 and CR-5 from the 2013 MND and the existing Monitoring and Discovery Plan, which outlines the monitoring protocols and treatment measures for potentially undiscovered cultural resources and human remains. Thus, with incorporation of mitigation, impacts on cultural resources would be less than significant.

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less than Significant with Mitigation Incorporated. As discussed above, there is only one potentially significant cultural resource located within the project area; however, it would not be affected by the proposed maintenance activities. Although no known cultural resources would be adversely affected by the project, intensive pedestrian surveys were unable to be completed at several facilities due to access issues or poor visibility from dense vegetation, as described above. These facility locations have the potential for resources to be present. Any adverse impacts on unknown archaeological resources would be mitigated to a less-than-significant level with the implementation of Mitigation Measure CR-5 from the 2013 MND and the Monitoring and Discovery Plan, which outlines the monitoring protocols and treatment measures for cultural resources and human remains. Thus, with incorporation of mitigation, impacts on archaeological resources would be less than significant.

c. Disturb any human remains, including those interred outside of dedicated cemeteries?

Less than Significant with Mitigation Incorporated. No cultural resources that include human remains were identified during the cultural resources study. Although no known human remains were identified within the project area, intensive pedestrian surveys were unable to be completed at several facilities due to access issues or poor visibility from dense vegetation, as described above. These facility locations may have the potential for human remains to be present. Any adverse impacts on unknown human remains would be mitigated to a less-than-significant level with the implementation of Mitigation Measure CR-5 from the 2013 MND and the Monitoring and Discovery Plan. Thus, with incorporation of mitigation, impacts on human remains would be less than significant.

# Mitigation Measures for Cultural Resources

Measure	Description
CR-1 Archaeological Monitor and Native American Monitoring	The applicant shall enter into a Tribal Cultural Resource Treatment and Monitoring Agreement (also known as a pre-excavation agreement) with a tribe that is traditionally and culturally affiliated with the project location (TCA Tribe) prior to issuance of ground-disturbing activities. The purpose of the agreement is to provide the applicant with clear expectations regarding tribal cultural resources and to formalize protocols and procedures between them. The applicant and the TCA Tribe are responsible for the protection and treatment of, including but not limited to, Native American human remains, funerary objects, cultural and religious landscapes, ceremonial items, traditional gathering areas, and cultural items, located and/or discovered through a monitoring program in conjunction with the construction of the project, including additional archaeological surveys and/or studies, excavations, geotechnical investigations, grading, and all other ground-disturbing activities.
	Prior to ground disturbing activities, the applicant shall provide written verification to the City that a qualified archaeologist and a Native American monitor associated with a TCA Tribe have been retained to implement the monitoring program.
	An archaeological monitor under the supervision of the qualified archaeologist will be present during the first maintenance activity that involves ground disturbing activities at the following earthen facilities: E-54, E-55, E-58, E-60, H-16, H-19, and SM-05.
	A Native American monitor will be present during the first maintenance activity that involves ground disturbing activities at the following facilities: E-53, E-54, E-55, E-56, E-58, E-60, H-15, H-16, H-17, H-19, H-20, H-21, and SM-05.
	The archaeologist shall be responsible for coordinating with the Native American monitor. This verification shall be presented to the City in a letter from the project archaeologist that confirms the selected Native American monitor is associated with a TCA Tribe. The City, prior to any preconstruction meeting, shall approve all persons involved in the monitoring program. The qualified archaeologist and Native American monitor shall attend the pre-grading meeting with the grading contractors (if a pre-grading meeting is required) to explain and coordinate the requirements of the monitoring program.

#### TABLE 3-11. MITIGATION MEASURES FOR CULTURAL RESOURCES

Measure	Description
CR-2 Unanticipated Discovery and Avoidance of Archaeological Resources	If an unanticipated archaeological resource is discovered during monitoring, if feasible, it will be avoided. Unanticipated archaeological discoveries made during monitoring will be addressed following procedures identified in the Monitoring and Discovery Plan. In the event that previously unidentified tribal cultural resources are discovered, the qualified archaeologist and the Native American monitor shall have the authority to temporarily divert or temporarily halt ground disturbance operation in the area of discovery to allow for the evaluation of potentially significant cultural resources. Isolates and clearly non-significant deposits shall be minimally documented in the field and collected so the monitored grading can proceed. Mitigation Measures CR-3 and/or CR-4 may be implemented if appropriate.
CR-3 Testing of Archaeological Resources	In the event that previously unidentified tribal cultural resources are discovered, the qualified archaeologist and the Native American monitor shall have the authority to temporarily divert or temporarily halt ground disturbance operation in the area of discovery to allow for the evaluation of potentially significant cultural resources. Isolates and clearly non-significant deposits shall be minimally documented in the field and collected so the monitored grading can proceed. If an unanticipated archaeological discovery is potentially significant and cannot be avoided, an evaluation plan that identifies research topics and procedures for evaluation of the resource will be prepared. The evaluation plan will be a stand- alone document and will be implemented prior to ground-disturbing maintenance activities.
	If a potentially significant tribal cultural resource is discovered, the archaeologist shall notify the City of said discovery. The qualified archaeologist, in consultation with the City, the TCA Tribe, and the Native American monitor, shall determine the significance of the discovered resource. A recommendation for the tribal cultural resource's treatment and disposition shall be made by the qualified archaeologist in consultation with the TCA Tribe and the Native American monitor and be submitted to the City for review and approval.
CR-4 Data Recovery of Archaeological Resources	If a potentially significant tribal cultural resources and/or unique archaeological resource is discovered, the avoidance and/or preservation of the significant tribal cultural resource and/or unique archaeological resource must first be considered and evaluated as required by CEQA. Where any significant tribal cultural resources and/or unique archaeological resources have been discovered and avoidance and/or preservation measures are deemed to be infeasible by the City, then a research design and data recovery program to mitigate impacts shall be prepared by the qualified archaeologist (using professional archaeologist), in consultation with the TCA Tribe and the Native American monitor, and shall be subject to approval by the City. The qualified archaeologist, in consultation with the Native American monitor, shall determine the amount of material to be recovered for an adequate sample of the resource for analysis. Before construction activities are allowed to resume in the affected area, the research design and data recovery program activities must be concluded to the satisfaction of the City.
	If the qualified archaeologist elects to collect any tribal cultural resources, the Native American monitor must be present during any testing or cataloging of those resources. Moreover, if the qualified archaeologist does not collect the cultural resources that are unearthed during the ground-disturbing activities, the Native American monitor may, at their discretion, collect said resources and provide them to the TCA Tribe for respectful and dignified treatment in accordance with the TCA Tribe's cultural and spiritual traditions. Any tribal cultural resources collected by the qualified archaeologist shall be repatriated to the TCA Tribe. Should the TCA Tribe or other traditionally and culturally affiliated tribe decline the collection, the collection shall be curated at the San Diego Archaeologist, in consultation with the Native American monitor, to not be tribal cultural resources, shall be curated at the San Diego Archaeological Center.

Measure	Description
	Prior to the release of the grading bond (if required) or completion of the project, a monitoring report and/or evaluation report, if appropriate, which describes the results, analysis, and conclusion of the archaeological monitoring program and any data recovery program on the project site shall be submitted by the qualified archaeologist to the City. The Native American monitor shall be responsible for providing any notes or comments to the qualified archaeologist in a timely manner to be submitted with the report. The report will include California Department of Parks and Recreation Primary and Archaeological Site Forms for any newly discovered resources.
CR-5 Treatment of Human Remains	If human remains are inadvertently discovered, they shall be treated according to appropriate State (Public Resources Code Section 5097.98, 5097.99, 5097.991, 7050.5, 8010-8011 and AB 2641); or on federal land NAGPRA provisions, as outlined in the Monitoring and Discovery Plan.

# VI. ENERGY

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a.	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				
b.	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			$\boxtimes$	

## **Environmental Evaluation**

Would the project:

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

**Less-than-Significant Impact**. Energy use is not discussed within either the 2013 MND or the 2014 Addendum. Notwithstanding the fact that energy was not previously analyzed, the "project" analyzed in the 2013 and 2014 documents provided coverage for routine O&M activities on 63 of the City's flood control facilities. The proposed project would expand the permit to add the ability to perform O&M activities at 24 additional facilities. The addition of these 24 facilities may result in an incremental increase in consumption of electricity and petroleum during proposed O&M activities. Typically demand for electricity would stem from the use of electrically powered hand tools; but the use of electricity during O&M would be temporary and minimal. Natural gas is not anticipated to be required during maintenance.

Petroleum would be consumed throughout the duration of the O&M activities. Fuel consumed by construction equipment would be the primary energy resource expended over the course of maintenance, and vehicle miles traveled associated with the transportation of materials and construction worker commutes would also result in petroleum consumption. Heavy-duty construction equipment associated with maintenance activities and haul trucks involved in relocating dirt are assumed to use diesel fuel. Workers would travel to and from the various project sites throughout the duration of maintenance activities using primarily gasoline-powered vehicles. Maintenance activities would be required to comply with CARB's Airborne Toxics Control Measure, which restricts heavy-duty diesel vehicle idling time to 5 minutes, which would minimize fuel consumption. Therefore, because electricity, natural gas, and petroleum use during proposed maintenance activities would be temporary and relatively minimal, and would not be wasteful or inefficient, impacts would be less than significant.

b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

**Less-than-Significant Impact**. A discussion regarding energy usage is not included within the 2013 MND or 2014 Addendum. However, the project would not involve construction of buildings, and would only involve O&M activities for the 87 (total) flood control facilities that are already in place throughout the City (63 facilities covered by the previous documents plus 24 additional facilities); thus, Title 24 of the California Code of Regulations, Part 6 and Part 11 would not apply. Therefore,

the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and impacts would be less than significant

			Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld t	he project:				
a.	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
	1.	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
	2.	Strong seismic ground shaking?			$\boxtimes$	
	3.	Seismic-related ground failure, including liquefaction?			$\boxtimes$	
	4.	Landslides?			$\boxtimes$	
b.		sult in substantial soil erosion or the loss of soil?			$\boxtimes$	
C.	uns res ons	located on a geologic unit or soil that is stable or that would become unstable as a ult of the project and potentially result in an site or offsite landslide, lateral spreading, psidence, liquefaction, or collapse?				
d.	18- cre	located on expansive soil, as defined in Table 1-B of the Uniform Building Code (1994), ating substantial direct or indirect risks to life or perty?				
e.	use dis	ve soils incapable of adequately supporting the e of septic tanks or alternative wastewater posal systems in areas where sewers are not ailable for the disposal of wastewater?				
f.	pal	ectly or indirectly destroy a unique eontological resource or site or unique geologic ture?				

# VII. GEOLOGY, SOILS, AND PALENOTOLOGY RESOURCES

## **Environmental Evaluation**

Would the project:

- a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
  - 1. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other

substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not directly or indirectly cause substantial adverse effects related to rupture of a known earthquake fault. The 2013 MND stated that although the city of Escondido is located within a Seismic Zone 4, the current RGP 94 activities would not be located within proximity to active faults as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map. The closest known active faults are the Rose Canyon Fault and the Elsinore Fault. Due to the distance of the facilities from these faults, fault surface rupture is not likely at the maintenance sites. In the event of a major earthquake on these faults or other faults within the Southern California region, the facilities could be subjected to moderate to severe ground shaking. However, the site is not considered to possess a significantly greater seismic risk than that of the surrounding area in general.

A review of the current California Geological Survey's *Earthquake Zones of Required Investigation* (California Geological Survey 2020) confirms that no new or more severe impacts would occur compared to the analysis in the 2013 MND. None of the newly proposed facilities would be located in a Fault Zone, Liquefaction Zone, or Landslide Zone. Thus, impacts would be less than significant.

2. Strong seismic ground shaking?

**Less-than-Significant Impact**. The 2013 MND found that the current RGP 94 facilities are not considered to possess a significantly greater seismic risk than that of the surrounding area in general. In the event of a major earthquake on these faults (Rose Canyon Fault and the Elsinore Fault) or other faults within the Southern California region, the facilities could be subjected to moderate to severe ground shaking.

As with the current RGP 94 facilities, the newly proposed facilities would all be located within the City of Escondido and would be subject to the same level of risk associated with seismic ground shaking (from Rose Canyon Fault, Elsinore Fault and regional faults). Thus, no new or more severe impacts associated with seismic ground shaking would occur, and impacts would continue to be less than significant.

3. Seismic-related ground failure, including liquefaction?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not expose people or structures to substantial adverse effects or risks related to seismic-related ground failure including liquefaction. Potential geologic hazards such as tsunamis, seiches, liquefaction, or collapse were determined to be negligible or nonexistent.

As with the current RGP 94 facilities, the newly proposed facilities would all be located within the City of Escondido and would be subject to the same level of risk. In addition, as mentioned under Threshold VII a.1. above, none of the newly proposed facilities would be located within *Earthquake Zones of Required Investigation* for liquefaction or landslides. Thus, no new or more severe impacts associated with ground failure including liquefaction would occur, and impacts would continue to be less than significant.

#### 4. Landslides?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not expose people or structures to substantial adverse effects or risks related to landslides. In addition, as mentioned under Threshold VII a.1. above, none of the newly proposed facilities would be located within Earthquake Zones of Required Investigation for liquefaction or landslides. Thus, no new or more severe impacts associated with landslides would occur, and impacts would continue to be less than significant.

b. Result in substantial soil erosion or the loss of topsoil?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 activities would be routine in nature and would not result in any substantial soil erosion or the loss of topsoil because all areas are developed with structures, paving, or hardscape.

Newly proposed facilities would be similar to the original 63 locations, and the BMPs for water quality protection (including erosion and sediment control measures) discussed in Section X, *Hydrology and Water Quality,* below would be implemented at new facility locations as well. The objective of the BMPs is to adequately control the potential discharge of pollutants (including via erosion) during maintenance activities to a less-than-significant level. Thus, no new or more severe impacts associated with erosion would occur, and impacts would be less than significant.

c. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project and potentially result in an onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?

**Less-than-Significant Impact**. The 2013 MND found that potential geologic hazards such as tsunamis, seiches, liquefaction, or collapse would be considered negligible or nonexistent for the current RGP 94 facilities.

As the nearest newly proposed facility is located approximately 13 miles from a large body of water (Pacific Ocean), tsunamis and seiches would continue to be negligible risks to project implementation. As mentioned under Thresholds VIIa.3 and VII.a.4 above, none of the newly proposed facilities would be located in a liquefaction or landslide prone zone. In addition, the proposed project involves O&M and work activities at existing features and does not include the construction of new habitable structures; thus, potential impacts associated with secondary seismic phenomena such as subsidence or collapse would also continue to be negligible. Therefore, no new or more severe impacts associated with unstable geologic units or soil would occur, and impacts would be less than significant.

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

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would involve routine O&M activities on existing structures throughout San Diego County and would not create a substantial risk to life or property.

Similarly, the proposed project's O&M and work activities to be conducted at the newly proposed facilities would also occur within existing facilities, and the project does not include the construction of new habitable structures (creating a substantial risk to life or property). Thus, no new or more

severe impacts associated with expansive soils would occur, and impacts would be less than significant.

e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?

**No Impact**. The 2013 MND found that no septic tanks or alternative wastewater disposal system would be utilized as part of the current RGP 94. Although the project would not require a permanent water supply or source, the project site would be served by an existing wastewater/sewer pipeline system within the city of Escondido when necessary.

Similarly, no septic tanks or alternative wastewater disposal system are included as part of the proposed project. Thus, no impacts would occur.

f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant Impact. No paleontological resources have been identified within the city of Escondido (Demere 2007). Five of the 24 project facilities and one expanded current facility surveyed are concrete or asphalt and do not have the potential for the discovery of paleontological resources. Of the remaining 20 project locations, 17 are located on soils not expected to contain paleontological resources. There are Jurassic marine terraces present at the remaining earth-lined facilities; however, these terraces are covered in recent alluvium and proposed project activities would occur in these non-sensitive disturbed soils and would not reach a depth that would potentially impact any paleontological resources. Thus, impacts on paleontological resources would be negligible and less than significant.

# VIII. GREENHOUSE GAS EMISSIONS

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

## **Environmental Evaluation**

Would the project:

a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

**Less-than-Significant Impact**. Increases in fossil fuel combustion and deforestation have exponentially increased concentrations of greenhouse gases (GHGs) in the atmosphere. Rising atmospheric concentrations of GHGs in excess of natural levels result in increasing global surface temperatures—a phenomenon commonly referred to as global warming. The primary associated GHG emissions are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and fluoridated compounds. Assembly Bill (AB) 32 sets forth the regulatory framework in California to reduce emissions to 1990 levels by 2020. Senate Bill (SB) 32 builds on AB 32 and establishes a longer-term goal of 40 percent below 1990 levels by 2030. Because GHGs are a global problem, GHG impacts and the analysis contained herein are inherently cumulative.

The State CEQA Guidelines do not indicate what amount of GHG emissions would constitute a significant impact on the environment. Instead, they authorize the lead agency to select thresholds of significance that it considers most appropriate to enable decision makers to adequately account for the project's incremental contribution to climate change, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (State CEQA Guidelines Sections 15064.4(a) and 15064.7(c)). According to the City of Escondido's *Greenhouse Gas Emissions Adopted CEQA Thresholds and Screening Tables*, projects that generate less than 2,500 metric tons (MT) of carbon dioxide equivalent (CO<sub>2</sub>e) per year are generally considered less than significant. Thus, for the purpose of this analysis, the 2,500 MTCO<sub>2</sub>e threshold is used as a screening threshold to assess the proposed project's GHG emissions.

The 2013 MND ENV 12-0001 (2013 MND) found GHG emissions from implementation of the current RGP 94 would not be a considerable contribution to the cumulative global impact and were determined to be less than significant.

Similar to the current RGP 94, GHG emissions associated with the proposed project would result from engine exhaust from heavy-duty off-road equipment, mechanical hand tools including chainsaws and trimmers, use of water trucks onsite, employee vehicle trips, and haul and vendor truck trips. GHG emissions were estimated using a combination of emission factors and methodologies published and recommended by CARB and other agencies, including the CalEEMod version 2016.3.2, and CARB's EMFAC2017 model. Construction data for the proposed project (e.g., schedule, equipment types and numbers, and truck trips) is based on a combination of information provided by the project applicant, and modeling defaults.

Table 3-12 summarizes estimated GHG emissions by source from O&M associated with the proposed project.

Source	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO₂e
Offroad Equipment	57	<1	0	63
Mobile	110	<1	<1	115
Total	167	<1	<1	178
Threshold				2,500
Exceed Threshold?				No

TABLE 3-12. ESTIMATED ANNUAL GHG EMISSIONS BY SOURCE (MTCO₂E/YEAR)

Source: Appendix B

As shown in Table 3-12, maintenance of the proposed project would result in GHG emissions that would be well below the City of Escondido's screening threshold of 2,500 MTCO<sub>2</sub>e per year. Similar to the current RGP 94, because construction-related emissions would be below the applicable level of significance, the project's GHG emissions would not be a considerable contribution to the cumulative global impact and, therefore, would be less than significant.

b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less-than-Significant Impact. At the local level, the City of Escondido's Climate Action Plan (E-CAP) and associated Greenhouse Gas Emissions CEQA Threshold and Screening Tables (City of Escondido 2013) were adopted in December 2013, and are the most relevant plan, policy or regulatory program adopted for the purpose of reducing the emissions of GHGs within the City. The E-CAP's Greenhouse Gas Emissions CEQA Threshold and Screening Tables document determined that projects within the City of Escondido that generate less than 2,500 MTCO<sub>2</sub>e per year are generally small in nature and are considered less than significant. As described above, like the current RGP 94, the proposed project would generate GHG emissions that are well below the applicable 2,500 MTCO<sub>2</sub>e screening threshold (178 MTCO<sub>2</sub>e/year). As a result, the proposed project would not conflict with implementation of the City's E-CAP. It should be noted that the City's current E-CAP was prepared to comply with the 2020 GHG reduction goal established by AB 32 and does not address the 2030 GHG reduction goal established by SB 32. The City is currently working on an update to its E-CAP to ensure compliance with updated state policies and regulations. Aside from the City's E-CAP at the local level, the other applicable plan, policy, or regulation relevant to the proposed project that has been adopted for the purposes of reducing GHG emissions to meet the 2030 GHG reduction goal is CARB's 2017 Climate Change Scoping Plan (Scoping Plan) at the state level, which is described below.

CARB's Scoping Plan outlines the framework and strategies the state will take to achieve its GHG emission reduction targets. Based on the Scoping Plan, many of the reductions needed to meet the 2030 target will come from state regulations, including cap-and-trade regulations, the requirement for increasing renewable energy sources in California's energy supply, updates to Title 24, and increased emission reduction requirements for mobile sources. The Scoping Plan indicates that some reductions would need to come in the form of changes pertaining to vehicle emissions and

mileage standards. Some would come from changes pertaining to sources of electricity and increased energy efficiency at existing facilities. The remainder would need to come from state and local plans, policies, or regulations that will lower carbon emissions relative to business-as-usual conditions. The 2017 Scoping Plan contains GHG reduction measures to help achieve the state's 2030 target across all sectors of the California economy, including transportation, energy, and industry. The proposed project, which involves maintaining existing facilities to ensure adequate flood control capacity and avoid potential vector control issues for long-term sustainability and public safety, would not impede implementation of any of these regulations. The proposed project would not involve any land use development or population growth: therefore, the GHG reduction measures in the 2017 Scoping Plan are largely not applicable to the project. The project would benefit from the Scoping Plan measures, however, because it would involve the use of vehicles and require on- and off-road equipment to complete its O&M activities. Vehicle emissions would be reduced by measures outlined in the 2017 Scoping Plan such as Pavley I, Pavley II, and the Low-Carbon Fuel Standard (LCFS). On- and off-road construction equipment used for maintenance of the project would be affected by the LCFS and the heavy-duty vehicle measures in the 2017 Scoping Plan. These measures would lead to cleaner vehicles and equipment for the project's O&M activities and thus lower GHG emissions. Because the Scoping Plan measures are largely not applicable to the project, the project would not conflict with applicable policies described in the Scoping Plans for AB 32 and SB 32.

The 2013 MND found that the GHG emissions generated under the current RGP 94 would not conflict with any applicable plan, policy, or regulation adopted for reducing GHG emissions. As presented in the discussions above, similar to the current RGP 94 the proposed project would also not conflict with any applicable plan, policy, or regulation for GHG reduction or managing global climate change. Therefore, the impact would be less than significant.

IX.

## HAZARDS AND HAZARDOUS MATERIALS

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

#### **Environmental Evaluation**

Would the project:

a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

**Less-than-Significant Impact**. The 2013 MND found that due to the nature of the project and the lack of hazardous materials associated with the proposed O&M activities, implementation of the current RGP 94 would not result in the creation of any health hazards to the public through transport, use, or disposal of hazardous materials.

Activities to be conducted at the proposed 24 new facilities would include O&M and work activities. Work activities include the excavation of accumulated sediment and herbaceous vegetation, excavation and clearing of culvert inlets and outlets, removal of nonnative trees, the trimming of

native shrub and tree cover, and the excavation of accumulated sediment and vegetation within a specified basin. Additional work activities would include repairs of existing hardscaped facilities, which can include minor repairs to segments of concrete-lined channels or riprap-lined segments. Routine transport, use, and disposal of hazardous materials such as fuel, solvents, paints, oils and grease could occur during this time. However, such transport, use, and disposal must be compliant with applicable federal, state, and local regulations. Although small amounts of these materials would be transported, used, and disposed of, these materials are typically used in equipment and in maintenance and would not represent the transport, use, and disposal of acutely hazardous materials. Thus, impacts would be less than significant.

b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in the creation of any health hazards nor would it involve a risk of an explosion or the release of hazardous substances. The current RGP 94 does not involve the use or storage of hazardous materials that would result in a reasonably foreseeable upset or accident conditions.

Similarly, O&M and work activities performed under the proposed project would involve the use of some hazardous materials; however, hazardous material use would be compliant with applicable federal, state, and local regulations. Any spills involving these materials would be in small amounts, localized, and cleaned up as they occur. Activities associated with the proposed project would not result in the creation of any health hazards nor would they involve a risk of an explosion. The proposed project would not involve the use or storage of hazardous materials in quantities that would result in a significant release. Thus, impacts would be less than significant.

c. Emit hazardous emissions or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within ½ mile of an existing or proposed school.

Similarly, hazardous material used during implementation of the proposed project would be compliant with applicable federal, state, and local regulations and would not involve the use of acutely hazardous materials. As mentioned above, spills involving these materials would be in small amounts, localized, and cleaned up as they occur. In addition, the proposed project does not involve the use or storage of hazardous materials in quantities that would result in a significant release to the surrounding environment, including nearby schools. Thus, impacts would be less than significant.

d. Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

**Less-than-Significant Impact**. The 2013 MND found that no significant odors, pools of liquid, or significantly stained soils—all of which are indicators of underground storage tanks, pits, or ponds—were observed at the current RGP 94 sites. Also, no evidence or indication of releases of petroleum hydrocarbons, heavy metals, hazardous chemicals, or other "recognized environmental conditions"

were revealed at the current facilities. According to the California Department of Toxic Substances Control Hazardous Waste and Substances Site List (2020), only one active Hazardous Waste and Substances Site was identified in the city of Escondido. This site is known as the Chatham Brothers Barrel Yard and is located at 2257 Bernardo Avenue, Escondido, California. This site is approximately 1 mile from the closest facility location (H-07) and would therefore not create or contribute to a significant hazard to the public or environment.

Similarly, none of the newly proposed facilities are located within any site identified in the California Environmental Protection Agency's *Cortese List Data Resources*<sup>6</sup> (2020). Facility locations E-48, E-50, E-49, and H-21 were identified adjacent to Leaking Underground Storage Tank (LUST) sites (State Water Resources Control Board 2020). However, all LUST sites were granted closure by the applicable oversight agency. In addition, facility location E-48 was also located 200 feet away from a Cleanup Program Site (Department of Toxic Substances Control 2020) involving a diesel and gasoline release. The site had been granted closure by the applicable oversight agency as well. Thus, impacts would be less than significant.

e. Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not be located within 2 miles of a public airport or public use airport and would not result in a safety hazard for people residing or working in the area.

Similarly, none of the newly proposed facilities are located within 2 miles of a public airport or public use airport. The closest aviation facilities are the Ramona Airport located approximately 7.6 miles to the southeast (of H-15) and McClellan Palomar Airport located approximately 8.3 miles to the west (of SM-05). Thus, no impact would occur.

f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

**Less-than-Significant Impact**. The 2013 MND found implementation of the current RGP 94 is not expected to result in the need for additional emergency and fire facilities. The current RGP 94 consists of routine O&M activities and does not include activities or structures that would impair the implementation of, or physically interfere with, an adopted emergency response plan or evacuation plan.

As with the current RGP 94, the proposed project's O&M and work activities to be conducted at the newly proposed facilities would not include activities or structures that would impair the implementation of, or physically interfere with, an adopted emergency response plan or evacuation plan. O&M and work activities would be temporary and conducted in concrete channels, culvert inlet and outlets, etc. making interference with an emergency response plan or evacuation plan highly unlikely. Thus, impacts would be less than significant.

<sup>&</sup>lt;sup>6</sup> The CalEPA *Cortese List Data Resources* are the online resources that provide information regarding the facilities or sites identified as meeting the "Cortese List" requirements.

g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

**Less-than-Significant Impact**. The 2013 MND found that implementation of the current RGP 94 would not expose people or structures to wildland fires as the majority of the O&M activities would be completed in an urban or suburban setting. The current activities do not include activities that would increase the risk of fires, so in areas where residences are intermixed with wildlands there would be no increased risks. Thus, the current RGP 94 O&M activities were not identified to result in the need for additional emergency and fire facilities.

The proposed project's O&M and work activities at the newly proposed facilities also would be completed in urban and suburban settings and would not include activities that increase the risk of fires. In addition, the work would be conducted at existing facilities and does not include the construction of new habitable structures (thus creating a potential impact on people or new structures). O&M and work activities under the proposed project would also not result in scenarios in which additional emergency and fire resources would be needed. Thus, impacts would be less than significant.

Χ.

## HYDROLOGY AND WATER QUALITY

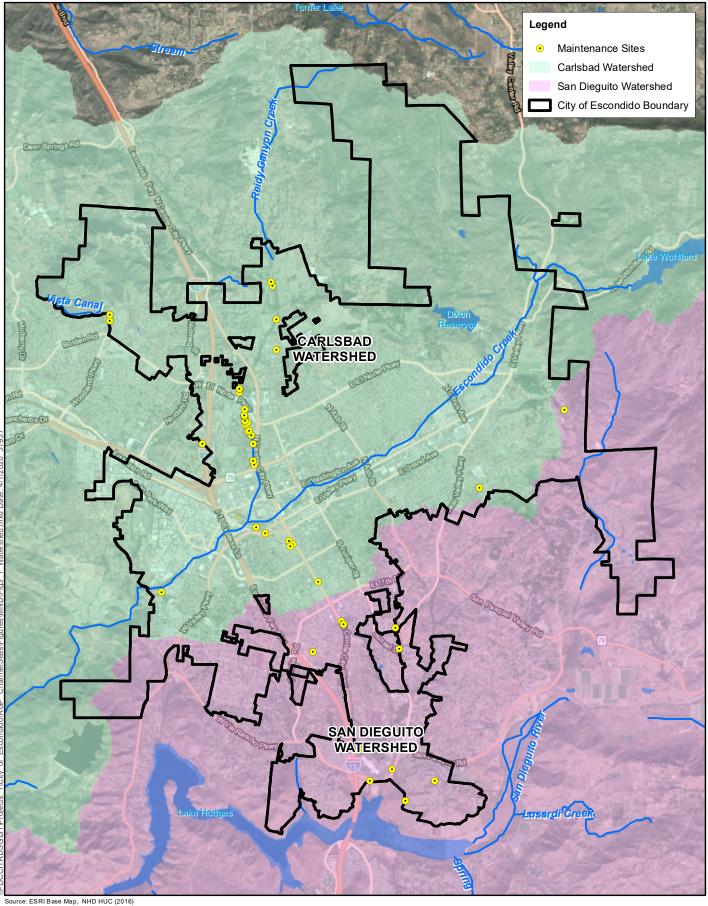
			Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld tl	ne project:				
a.	dise	late any water quality standards or waste charge requirements or otherwise substantially grade surface or groundwater quality?		$\boxtimes$		
b.	inte suc	ostantially decrease groundwater supplies or erfere substantially with groundwater recharge th that the project may impede sustainable undwater management of the basin?				
C.	the the	ostantially alter the existing drainage pattern of site or area, including through the alteration of course of a stream or river or through the lition of impervious surfaces, in a manner that uld:				
	1.	Result in substantial erosion or siltation on or off site;		$\boxtimes$		
	2.	Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site;			$\boxtimes$	
	3.	Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or				
	4.	Impede or redirect flood flows?		$\boxtimes$		
d.		lood hazard, tsunami, or seiche zones, risk ease of pollutants due to project inundation?		$\boxtimes$		
e.	qua	nflict with or obstruct implementation of a water ality control plan or sustainable groundwater nagement plan?				

## Background

The following discussion briefly describes the watershed characteristics specific to the project study area, including the beneficial uses of surface water and groundwater, and impaired waters.

## Hydrologic Setting

The project study area falls primarily within two major watersheds, or HUs: Carlsbad and San Dieguito (Figure 3-1). Approximately 75 percent of Escondido is located within the Carlsbad Watershed. The majority of the City's northern jurisdiction drains to Escondido Creek within the Escondido Creek HA. Reidy Creek, located mostly within the city, is a main tributary to Escondido Creek. Runoff from a very small portion of the city drains into the San Marcos Creek HA, which ultimately flows to, and is contained in, Lake San Marcos. The Carlsbad Watershed drains to several coastal lagoons, including San Elijo Lagoon. Escondido Creek is tributary to San Elijo Lagoon, which is listed as being impaired for eutrophic conditions, indicator bacteria, and sedimentation and/or



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siltation. Escondido Creek leaves the City's boundaries approximately 14 miles upstream of San Elijo Lagoon.

The southern part of Escondido is located within the San Dieguito Watershed. The major receiving water within the San Dieguito Watershed is the San Dieguito River. For the most part, the San Dieguito River is an ephemeral stream that flows into Lake Hodges during extreme wet weather. Additionally, except during extreme wet weather events, the water contained behind Lake Hodges Dam is rarely released and is allowed to proceed westerly to San Dieguito Lagoon. The majority of the city's area within this watershed drains to Felicita and Kit Carson creeks and ultimately Lake Hodges.

Table 3-13 below identifies the basins that encompass the project study area. The majority of the existing project facilities (47 facilities or 75 percent) occur in the Escondido Creek HA of the Carlsbad HU, with 12 facilities (19 percent) occurring in the Hodges HA of the San Dieguito HU and 4 facilities (6 percent) occurring in the San Marcos HA of the Carlsbad HU. The majority of the newly proposed facilities (14 facilities or 56 percent) occur in the Escondido Creek HA of the Carlsbad HU, with 9 facilities (36 percent) occurring in the Hodges HA of the San Dieguito HU and 1 facility (4 percent) occurring in both the San Marcos HA of the Carlsbad HU and the San Pasqual HA of the San Dieguito HU.

Basin ID	Hydrologic Subarea	Hydrologic Area	Hydrologic Unit
904.62	Escondido	Escondido Creek	Carlsbad
904.52	Richland	San Marcos	Carlsbad
905.21	Del Dios	Hodges	San Dieguito
905.32	Las Lomas Muertas	San Pasqual	San Dieguito

TABLE 3-13. WATERSHEDS IN THE PROJECT STUDY AREA

Figure 3-1 depicts the project sites in relation to the watersheds and surface waters within the City's jurisdiction.

## Water Quality

Tables 3-14 and 3-15 list the beneficial uses of surface waters and groundwater within these basins as set forth in the Water Quality Control Plan for the San Diego Region (RWQCB 2016; Basin Plan).

TABLE 3-14. BENEFICIAL USES FOR INLAND SURFACE WATERS

Water Body	Beneficial Use
Carlsbad Hydrologic Unit	
Escondido Creek (904.62)	MUN, AGR, IND <sup>1</sup> , REC1, REC2, WARM, COLD, WILD
Reidy Canyon Creek (904.62)	MUN, AGR, IND <sup>1</sup> , REC1, REC2, WARM, COLD, WILD
San Marcos Creek (904.52) AGR <sup>2</sup> , REC1, REC2, WARM, WILD	
San Dieguito Hydrologic Unit	
San Dieguito River (905.21)	MUN, AGR, IND, PROC, REC1, REC2, BIOL, WARM, WILD, RARE
Lake Hodges (905.21)	MUN, AGR, IND, PROC, REC1 <sup>3</sup> , REC2, WARM, COLD, WILD, RARE
Kit Carson Creek (905.21)	MUN, AGR, IND, PROC, GWR <sup>1</sup> , REC1, REC2, WARM, RARE

<sup>1</sup> Potential beneficial use.

<sup>2</sup> Excepted from municipal beneficial use.

<sup>3</sup> Fishing from shore or boat permitted, but other water contact recreational (REC-1) uses are prohibited.

#### TABLE 3-15. BENEFICIAL USES FOR GROUNDWATER

Basin	Beneficial Use
Carlsbad Hydrologic Unit	
Richland HSA (904.52)	MUN, AGR, IND
Escondido HSA (904.62)	MUN, AGR, IND
San Dieguito Hydrologic Unit	
Hodges HA (905.20)	MUN, AGR, IND

Beneficial use designations are defined below. Additional detail is provided within the Basin Plan.

- MUN Municipal and domestic supply
- AGR Agricultural supply
- IND Industrial service supply
- PROC Industrial process supply
- GWR Ground water recharge
- REC1 Contact water recreation
- REC2 Non-contact water recreation
- BIOL Preservation of biological habitats of special significance
- WARM Warm freshwater habitat
- COLD Cold freshwater habitat
- WILD Wildlife habitat
- RARE Rare, threatened, or endangered species

Receiving waters within the project study area that are listed as impaired on the 2014/2016 CWA 303(d) List of Water Quality Limited Segments (SWRCB 2018) are provided in Table 3-16.

# TABLE 3-16. CWA 303(D) LIST OF WATER QUALITY LIMITED SEGMENTS WITHIN THE CITY OF ESCONDIDO

Water Body	Impairment(s)				
Carlsbad Hydrologic	Carlsbad Hydrologic Unit				
Escondido Creek	Benthic Community Effects, Bifenthrin, DDT (Dichlorodiphenyltrichloroethane), Indicator Bacteria, Malathion, Manganese, Nitrogen, Phosphate, Selenium, Sulfates, Total Dissolved Solids, Toxicity				
San Marcos Creek Benthic Community Effects, DDE (dichlorodiphenyldichloroethane), Indice Bacteria, Phosphorus, Selenium Toxicity,					
San Dieguito Hydrol	ogic Unit				
Kit Carson Creek	Pentachlorophenol (PCP), Total Dissolved Solids				
Felicita Creek	1,4-Dioxane, Aluminum, Indicator Bacteria, Tetrachloroethylene, <sup>1</sup> Total Dissolved Solids, TCE (Trichloroethylene)				
Lake Hodges	Color, Manganese, Mercury, Nitrogen, pH, Phosphorus, Turbidity				

Source: SWRCB 2018

<sup>1</sup>Tetrachloroethylene Is also known as perchloroethylene (PCE)

## Flooding

As shown in Figure 3-2, the majority of the existing and proposed maintenance sites are outside of the 100-year floodplain, in areas of minimal flood hazard (FEMA Zone X). However, a number of sites are within the 100-year Floodplain Zone (Zones A, AE, AH, and AO). Table 3-17 lists the number of existing and proposed maintenance sites within the floodplain.

Flood Zone	Number of Maintenance Sites				
Existing Maintenance Sites					
А	4				
AE	19				
AH	2				
AO	7				
Х	75				
Proposed Maintenance Sites					
A	13				
AE	5				
Х	25				

TABLE 3-17. NUMBER OF MAINTENANCE SITES WITHIN THE FLOODPLAIN

Notes:

Zones A, AE, AH, and AO are within the 100-year floodplain zone. Zone X is outside of the 100-year floodplain, in areas of minimal flood hazard

## **Environmental Evaluation**

Would the project:

a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Less than Significant with Mitigation Incorporated. The 2013 MND concluded that with the incorporation of mitigation, implementation of the current RGP 94 would have a less-than-significant impact. Similar to the previous analysis in the 2013 MND, the proposed project has the potential to result in short-term water quality impacts. Potential water quality impacts include (1) sedimentation, siltation, and turbidity from ground-disturbing activities, vegetation removal, and dredging of channels; (2) redistribution of pollutants in disturbed sediment; and (3) pollutants from heavy equipment, including oil and grease, heavy metals, and various petroleum products. Table 3-18 below lists mitigation measures from the 2013 MND for hydrology and water quality that would be implemented to reduce potentially significant impacts to less than significant. Prior to the start of the project, all personnel would be educated on these avoidance and mitigation measures and other project BMPs (per Mitigation Measure WQ-1).

Standard erosion control measures and BMPs would be implemented during construction to minimize water quality degradation (Mitigation Measure WQ-5). Activities and land disturbances would be conducted at the minimum amount necessary (as required by Mitigation Measure WQ-2). Furthermore, erosion and sediment control techniques would be implemented during and after maintenance activities and inspected to ensure proper function during the duration of maintenance activities as required by Mitigation Measures WQ-5, WQ-6, WQ-7, WQ-17, and

BIO-10. Earth-disturbing activities would be avoided during the wet season to minimize potential erosion-related impacts per Mitigation Measure WQ-4.

Additionally, vehicles and equipment would be operated in a manner to prevent degradation of water quality (Mitigation Measures WQ-9 and WQ-16). Equipment, staging, stockpiling, and refueling would be located in upland areas away from receiving waters and limited to the project footprint and adjacent urban and developed areas (Mitigation Measure WQ-12). In the event of a spill of hazardous materials, the appropriate materials will be available on site to contain the spill or inadvertent release of pollutants into waterbodies (Mitigation Measure WQ-15). Due to the nature of the accumulated sediment/vegetation that would be proposed for removal, hazardous pollutant levels within the sediment would not be expected. Water diversion would be treated as required to protect water quality (Mitigation Measure WQ-14). Workers would also be trained in incorporating appropriate and effective water protection measures (Mitigation Measure WQ-1). Groundwater is not anticipated to be encountered and no dewatering activities would be required. Potential impacts on regulated waters and wetlands would be minimized through avoidance and minimization measures and appropriate authorization under Section 404 of the CWA obtained as required (Mitigation Measure WQ-10). Thus, mitigation and avoidance measures for water quality protection would be implemented to adequately control the potential discharge of pollutants during maintenance activities to a less-than-significant level. Therefore, impacts would be less than significant with the incorporation of mitigation.

b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less than Significant Impact. The 2013 MND concluded that implementation of the current RGP 94 would have a less-than-significant impact related to groundwater supplies and recharge. Similar to the previous analysis in the 2013 MND, the proposed project involves the routine removal of vegetation and/or sediment from various storm drain facilities (constructed and natural) for the proper function of the channel system and structures. No groundwater supply would be used during construction or operation activities; therefore, the project would not decrease groundwater supply. There would be no change in pervious cover; therefore, groundwater recharge potential would be the same as under existing conditions. Thus, the project would not interfere with groundwater recharge or impede sustainable groundwater management of the basin. Therefore, impacts would be less than significant.

- c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would?
  - 1. Result in substantial erosion or siltation on or off site?

**Less than Significant with Mitigation Incorporated**. The 2013 MND concluded that implementation of the current RGP 94 would not result in substantial erosion or siltation on or off site. During construction, stormwater drainage patterns could be temporarily altered. However, activities and land disturbances would be conducted at the minimum amount necessary and existing vegetation preserved to the extent practicable (as required by Mitigation Measures WQ-2 and WQ-3). The proposed project would implement BMPs to minimize the potential for erosion or siltation on or off site and temporary changes in drainage patterns during construction (Mitigation Measure WQ-5). The project serves to maintain positive hydraulic flow and ultimately increase storm water conveyance capacity compared to existing conditions within the limits of

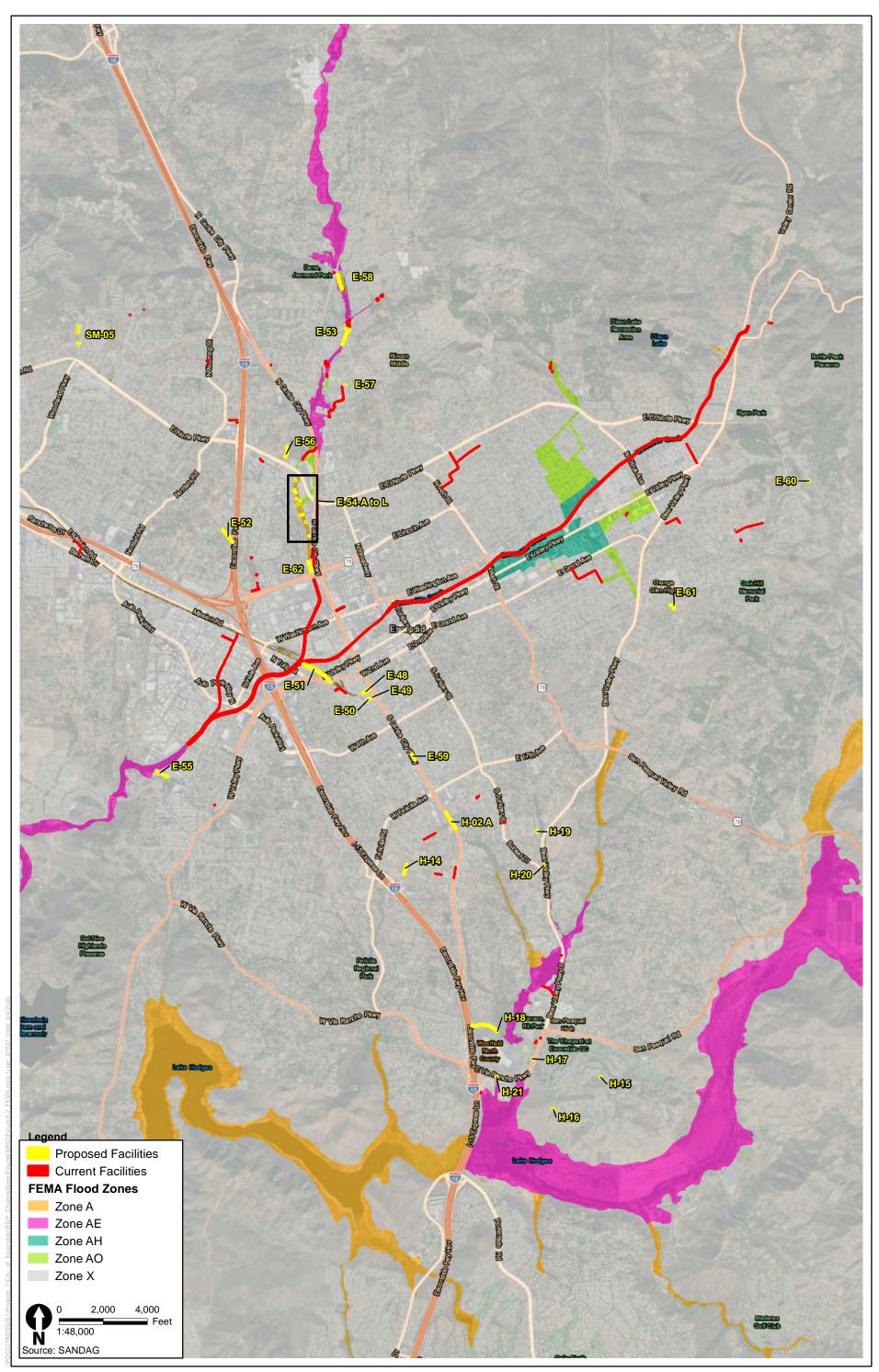


Figure 3-2 FEMA Flood Zones Within the Project Area Escondido RGP 94 Channel Maintenance

the original design. Proposed activities would not substantially alter the existing drainage pattern of the site or area. Furthermore, implementation of avoidance and mitigation measures for erosion, sediment, and runoff control (Mitigation Measures WQ-5, WQ-6, WQ-7, and BIO-10) would also reduce potential erosion or siltation impacts to a less-than-significant level. Impacts would be less than significant and the mitigation measures mentioned herein would further ensure impacts remain less than significant.

2. Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site?

Less than Significant Impact. The 2013 MND concluded that implementation of the current RGP 94 would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site. The proposed project does not include activities that would alter the existing drainage pattern of the maintenance sites in a manner that would result in a substantial increase in the rate or amount of surface runoff. The purpose of the proposed project is to improve runoff conveyance and minimize flooding potential. Construction BMPs would capture and infiltrate small amounts of sheet-flow into the ground such that offsite runoff from the construction site would not increase, ensuring that drainage patterns are not significantly altered. Thus, impacts would remain less than significant.

3. Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less than Significant with Mitigation Incorporated. The 2013 MND concluded that implementation of the current RGP 94 would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. The project serves to increase storm water conveyance capacity within the limits of the original design. Proposed improvements would not create or contribute runoff water to existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff. O&M activities are necessary to ensure proper function and integrity of the channel system and structures, and activities would not otherwise alter or expand the existing system. Mitigation measures would be implemented to ensure proper stormwater control and treatment and reduce the discharge of pollution. Access routes would be maintained to minimize impacts on receiving waters and minimize the discharge of pollutants (Mitigation Measure WQ-8). Implementation of avoidance and mitigation measures for runoff control, site spoil management, staging and stockpiling, trash management, and vehicle and equipment maintenance (Mitigation Measures WQ-5, WQ-12, WQ-13, WQ-14, and WQ-16) would also reduce potential additional sources of polluted runoff. In the event of a spill of hazardous materials, the appropriate materials would be available onsite to contain the spill or inadvertent release of pollutants into waterbodies (Mitigation Measure WQ-15). Thus, impacts would be less than significant with mitigation incorporated.

4. Impede or redirect flood flows?

**Less than Significant with Mitigation Incorporated**. The 2013 MND concluded that implementation of the current RGP 94 would not impede or redirect flood flows. During construction, stormwater drainage patterns, including flood flows may be temporarily impeded or redirected. However, standard erosion control BMPs would be implemented to limit site runoff during construction and reduce flood impacts (Mitigation Measure WQ-5). BMPs would be implemented to control.

After project implementation, no structures would be constructed that would impede or redirect flood flows. Impacts would less than significant, and the mitigation measure mentioned herein would further ensure impacts remain less than significant.

d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

**Less than Significant with Mitigation Incorporated**. The 2013 MND did not evaluate this impact, as the State CEQA Guidelines Appendix G Checklist was updated in January 2018. Although a number of sites are within the 100-year Floodplain Zone (Table 3-17; Figure 3-2), the majority of the existing and proposed maintenance sites are outside of the 100-year floodplain, in areas of minimal flood hazard (FEMA Zone X; FEMA 2012, 2016). Due to the distance from the Pacific Ocean (approximately 13 miles), the project site is not within a tsunami inundation area. Therefore, the proposed project is not subject to inundation by a tsunami. There are no reservoirs adjacent to the maintenance sites. Therefore, the proposed project would not be prone to inundation by a seiche.

In the event of a flood hazard, implementation of avoidance and mitigation measures for maintenance activities would minimize release of pollutants due to project inundation to a less-than-significant level. Therefore, implementation of avoidance and mitigation measures for runoff control (Mitigation Measures WQ-5 and WQ-14) would reduce potential water quality impacts to a less than significant level.

e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan;

**Less than Significant with Mitigation Incorporated**. The 2013 MND did not evaluate this impact, as the State CEQA Guidelines Appendix G Checklist was updated in January 2018. However, the 2013 MND stated standard erosion control BMPs would be implemented to minimize water quality degradation (Mitigation Measure WQ-5). Implementation of these BMPs would ensure stormwater discharges would not contain pollutants that cause or contribute to an exceedance of any applicable water quality objectives or water quality standards, including designated beneficial uses, as required by the Basin Plan. Minimization and avoidance measures would be implemented to control the potential discharge of pollutants and project water quality. Implementation of avoidance and mitigation measures to minimize impacts on receiving waters and minimize the discharge of pollutants, site spoil management, staging and stockpiling, trash management, and vehicle and equipment maintenance (Mitigation Measure WQ-9, WQ-11, WQ-12, WQ-13, WQ-16) would also reduce potential impacts on surface water quality objectives and/or beneficial uses as defined in the regional water quality control plan.

There would be no change in pervious cover; thus, groundwater recharge potential would be the same as under existing conditions. Therefore, the project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan and impacts would be less than significant with mitigation incorporated.

## Mitigation Measures for Hydrology and Water Quality

#### TABLE 3-18. MITIGATION MEASURES FOR HYDROLOGY AND WATER QUALITY

Measure	Description
WQ-1	Prior to the start of the project, and annually thereafter, the City will educate all
Worker Awareness	personnel on these avoidance and mitigation measures and other project best management practices (BMPs).
WQ-2	The City will ensure that activities and land disturbance are the minimum
Minimization of	necessary to (1) remove sediment and debris for the proper functioning of the
Disturbance	storm water conveyance system and (2) prevent stagnant and ponding water in
	areas that have been demonstrated to support mosquito breeding.
	Where vegetation removal is necessary, the removal of native trees will be
	restricted in accordance with BIO-14.
WQ-3	The City will preserve existing vegetation to the extent practicable and ensure
Preservation of Existing	implementation of BIO-13, riparian vegetation avoidance and BIO-14, native tree
Vegetation	avoidance.
WQ-4 Sebeduling of	Maintenance activities will be scheduled to avoid or minimize earth disturbance
Scheduling of Maintenance Activities	during the wet season to the maximum extent practicable.
WQ-5	Maintenance activities will include a combination of BMPs for soil erosion and
Erosion and Sediment	sediment control depending on site conditions, which can include:
Control	
	Erosion control/slope stabilization/bank protection
	erosion control blankets
	soil stabilizers
	<ul> <li>organic mulch, such as wood chips and vegetation</li> </ul>
	• riprap
	Temporary sediment controls:
	silt fence
	sediment/desilting basins
	sediment traps
	fiber rolls
	<ul> <li>gravel bag berm/barrier/dam</li> <li>straw bale barrier</li> </ul>
	waterbag dams
	<ul> <li>filters/filter bags</li> </ul>
WQ-6	All erosion and sediment control measures will be inspected/maintained to ensure
Inspection of Erosion and	proper integrity and function during the duration of maintenance activities. All post-
Sediment Control	activity stabilization and structural controls would be inspected for the duration of
	the maintenance activities and would be repaired or maintained for optimum
	performance.
WQ-7	If a stream channel, gradient, or lake margin have been temporarily altered during
Channel Alteration	maintenance activities, the City will return the area to original design specifications
	or as closely as possible to pre-project conditions without creating a possible future
	bank erosion problem. Post-activity bank stabilization techniques (sediment and
WO 0	erosion control) will be implemented to further protect against bank erosion.
WQ-8	The City will ensure that access routes to maintenance areas are selected and
Site Access Management	designed to minimize impacts to receiving waters, in particular the discharge of
	identified pollutants to an already impaired water body.
	Soil-tracking BMPs will be implemented to limit off-site transport of sediment from
	vehicles by implementing measures and site access points such as metal
	corrugated shaker plates, gravel strips, and/or wheel-washing sites.

Measure	Description
WQ-9	The City will not operate equipment or vehicles in ponded or flowing areas except
Vehicle/Equipment	as otherwise addressed in any of the project's applicable regulatory permits.
Operation	If maintenance activities require moving equipment across a flowing stream, the
	City will implement/install measures to prevent an increase to stream turbidity.
WQ-10	Potential impacts to regulated waters and wetlands will be minimized through
CWA Section 404	avoidance and minimization measures. Refer to Section IV, Biological Resources,
Compliance	and Mitigation Measure BIO-23.
WQ-11	The City will ensure that spoil sites shall not be located next to surface waters
Site Spoil Management	where spoil dewatering could potentially affect water quality, or where it will cover
	aquatic or riparian vegetation unless the site is specifically identified in the project's
	Notification of Lake or Streambed Alteration application.
WQ-12	Work materials, staging, storage, dispensing, fueling, and equipment maintenance
Staging + Stockpiling	activities will be located in upland areas outside of sensitive habitat, and adequate
	measures will be taken to prevent any potential runoff from entering receiving
	waters. Staging areas will be located within facility footprints or adjacent
WO 42	urban/developed areas.
WQ-13 Trash Management	Spoils, trash, or any debris will be removed off-site to an approved disposal facility.
WQ-14	All surface waters, including ponded waters, will be diverted away from areas
Water	undergoing dredging or vegetation removal and/or any other activity that may
Diversion/Dewatering	result in a discharge to the receiving water. When water diversion is necessary, a
Diversion/Dematering	temporary dam or other artificial obstruction will be constructed using materials
	that will cause little or no siltation and ensure water does not enter the work area.
	Water will be diverted around the maintenance facility without completely
	obstructing stream flow. When maintenance is completed, the flow diversion
	structure will be removed as soon as possible in a manner that allows flow to
	resume and prevents accumulated debris or sediment from returning to the
	stream.
	If dewatering is conducted, either a pump will move water to an upland disposal
	site, or a sediment basin or other structure will be used to collect and treat the water. If applicable, a National Pollutant Discharge Elimination System permit may
	be required. If not applicable, the water returned to the waterway should be
	equivalent in nature to pre-activity conditions.
	Additional water quality measures may arise as conditions of the 401 Water
	Quality Certification or Nationwide Permit #33 (if pursued) and applicable
	stipulations of a 1602 SAA, if applicable. The City will adhere to these and any
	other applicable conditions and avoidance measures.
WQ-15	The City will maintain appropriate types and sufficient quantities of materials on-
Spill Control	site to contain any spill or inadvertent release of materials that may cause a
	condition of pollution or nuisance if the materials reach waters of the U.S. and/or
WO 40	state.
WQ-16 Vahiolo/Equipment	The City will ensure that all vehicles and equipment utilized for maintenance
Vehicle/Equipment Maintenance	activities are well maintained and not leaking fluids. Vehicle or equipment maintenance (including fueling) will not be performed on-site or in a manner that
	could contribute pollutants to receiving waters.
WQ-17	Post-maintenance activity erosion and sediment control will be implemented as
Post-Activity Erosion and	applicable, including landscape planting and other slope stabilization techniques
Sediment Control	(i.e., hydroseed and/or hydromulch).

## XI. LAND USE AND PLANNING

_		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Physically divide an established community?				$\boxtimes$
b.	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				

### **Environmental Evaluation**

Would the project:

a. Physically divide an established community?

**No Impact**. The 2013 MND states that the proposed project would not create any new land use barriers, or otherwise divide or disrupt the physical arrangement of the surrounding community because the project does not propose the construction of any new structures that might divide an established area. Under this threshold, a significant impact could occur if a project were sufficiently large enough or otherwise configured in such a way as to create a physical barrier within an established community by impeding access between parts of the community. Projects that typically have the potential to physically divide an established community are projects such as railroads, highways, airports, and stadiums, none of which are proposed as part of the project. The O&M activities proposed as part of the project would be limited to facilities that already exist within the city, and no construction or development of additional flood control facilities is proposed. Therefore, impacts related to physically dividing an established community would not occur.

b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

**Less-than-Significant Impact**. The 2013 MND states that, from a land use perspective, no adverse impacts from the proposed project are anticipated because O&M activities would be conducted in existing channels and structures, and would not alter existing uses or conflict with local land use planning policies. The proposed project would add 24 additional facility locations, expand a current facility location (already included in the RGP), and include additional work activities. However, all 87 facilities are existing concrete and earthen stormwater facilities within the city, and the proposed O&M activities would not alter existing uses or conflict with any land use plans or policies designed to avoid or mitigate environmental effects. Therefore, the impact would be less than significant.

## XII. MINERAL RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a.	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				$\boxtimes$
b.	Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?				

#### **Environmental Evaluation**

Would the project:

a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in the loss of availability of a known mineral resource that would be of value to the region and residents of the state (City of Escondido 2012). Similarly, the proposed project consists of routine O&M activities that would not be located within or adjacent to any mineral extraction activities or Surface Mining and Reclamation Act (SMARA)-designated areas, and there would be no loss of availability of valuable mineral resources site (California Department of Conservation 2015). Therefore, impacts related to the loss or reduction of a valuable mineral resource would not occur.

b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan (City of Escondido 2012). Similarly, the proposed project would not be located within or adjacent to any mineral extraction activities or SMARA-designated areas, and would not result in the loss of availability of a locally important mineral resource recovery site (California Department of Conservation 2015). Therefore, impacts related to loss of a locally important mineral resource recovery site would not occur.

### XIII. NOISE

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?				
b.	Generate excessive groundborne vibration or groundborne noise levels?			$\boxtimes$	
c.	Be located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels?				

### **Environmental Evaluation**

Would the project:

a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?

**Less-than-Significant Impact**. The 2013 MND concluded that the current RGP 94 activities would not result in a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies. The 2013 MND stated that because current RGP 94 activities would consist of temporary O&M activities and would not create any new permanent noise sources, the project would not cause any permanent increase in ambient noise levels. Furthermore, because the project would not contain operational components that would be subject to Section 17-229 of the City's Municipal Code (see below), there would be no exceedance of those standards.

It is noted that the CEQA Appendix G checklist questions for Noise have changed since the 2013 MND was prepared. The current question "a", as stated above, combines three issues that were previously addressed in three separate questions in the 2013/2014 IS/MND. These were (1) compliance with applicable standards, (2) temporary or periodic increases in ambient noise, and (3) permanent increases in ambient noise. Because these issues have since been combined into a single checklist question, the following discussion relates to the combined findings for all three questions.

The 2013 MND identified that the applicable local noise standards are provided by the Escondido Noise Ordinance. The ordinance is contained in Chapter 17, Article 12, *Noise Abatement and Control*, of the City Municipal Code (Code). Noise level limits between adjacent properties are governed by Section 17-229 of the Code. Fixed-location public utility distribution or transmission facilities located on or adjacent to a property line are subject to the noise level limits in Section 17-229 of the Code, measured at or beyond 6 feet from the boundary of the easement upon which the

equipment is located. General construction noise is governed by Section 17-234 of the Code, which limits construction operations to 7 a.m. through 8 p.m., Monday through Friday, and on Saturdays between 9 a.m. and 5 p.m. and prohibits construction on Sundays and City holidays. Noise generated by grading activities is governed by Section 17-238 of the Code, which limits grading operations to 7 a.m. to 8 p.m., Monday through Friday and prohibits grading on Saturdays, Sundays, and City holidays. A variance for grading may be issued by the City Manager to allow grading operations on Saturdays between 10 a.m. and 5 p.m., if it can be demonstrated that it would serve the community good.

O&M activities at current RGP 94 facilities were classified as temporary construction activities subject to Code Sections 17-234 and 17-238. Both Code Sections 17-234 and 17-238 limit noise generated by construction equipment to a maximum of 75 A-weighted decibels (dBA) for a 1-hour equivalent noise level ( $L_{eq}$ ) at the property line of any property developed for residential purposes, unless a variance is obtained from the City Manager (pursuant to Code Sections 17-249 through 17-257).

O&M noise sources at current RGP 94 facilities were assumed to include graders, backhoes, excavators, front end loaders, and other equipment. O&M activities would be limited by the City's Noise Ordinance such that they would not occur during the prohibited nighttime, weekend, and holiday periods. Based on construction noise data from the Federal Transit Administration, general construction schedule assumptions, and soft-site ground conditions, the analysis assumed O&M equipment would generate a 1-hour L<sub>eq</sub> of 70 dBA at 50 feet from the construction area, with a drop-off rate (i.e., noise attenuation rate) of 7.5 decibels (dB) per doubling of distance from the source. Thus, while noise levels within and adjacent to the current RGP 94 facilities would temporarily increase during the O&M period, it was concluded that the increase would not be considered substantial, and construction-related noise levels would not exceed the noise level limits identified in Sections 17-234 and 17-238 of the Code.

Work to be conducted at the newly proposed facilities (i.e., new and extended sites) for the proposed project would consist of the same type of O&M activities conducted at current facilities. Work activities at any individual facility would be conducted approximately annually or biannually, and most O&M activities would be completed within 2 to 5 days. O&M activities, including newly proposed repairs and maintenance of existing hardscaped structures, would use the same general equipment types considered in the 2013 MND, including manual hand tools (e.g. rakes, shovels, loppers), mechanical hand tools (e.g., chain saws, string trimmers, hedge trimmers), and, in some locations, heavy mechanical equipment (e.g. grader, backhoe, excavator, skid steer, front-end loader, bobcat). Consequently, the resulting noise levels would be the same as those predicted for current facilities. Like activities at current facilities, proposed O&M activities would be limited by the City's Noise Ordinance and would not occur during the prohibited nighttime, weekend, and holiday periods. Newly proposed facilities would be located adjacent to a mix of neighborhoods and land uses that are the same or very similar to those surrounding current facilities. As a result, the noise levels and associated impacts from newly proposed facilities would be essentially the same as those from current facilities. Thus, while noise levels within and adjacent to the newly proposed facilities would temporarily increase during the O&M period, the increase would not be substantial, and construction-related noise levels would not exceed the noise level limits identified in Sections 17-234 and 17-238 of the Code.

Because the proposed project would consist of temporary O&M activities and would not create any new permanent noise sources, the proposed project would not cause any permanent increase in ambient noise levels. Furthermore, because the project would not contain operational components

that would be subject to Code Section 17-229, there would be no exceedance of those standards. As a result, the O&M activities at newly proposed facilities would not result in a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies. Thus, impacts would be less than significant.

#### b. Generate excessive groundborne vibration or groundborne noise levels?

**Less-than-Significant Impact**. The 2013 MND concluded that impacts related to groundborne vibration and groundborne noise impacts from the current RGP 94 would be less than significant. The 2013 MND noted that no pile driving or explosives blasting was anticipated as a result of the project. Thus, the most substantial vibration sources associated with the proposed project would be the O&M equipment used during vegetation clearing and dredging activities. Vibration levels from proposed equipment, reported as the peak particle velocity in inches per second (PPV in/sec), were found to be 0.1 PPV in/sec or less at distances of 30 feet or more. This impact was determined to be below applicable threshold for both annoyance to people and damage to structures.

Work to be conducted at the newly proposed facilities (i.e., new and extended sites) for the proposed project would be the same type of O&M activities conducted at current facilities. Work would use the same general equipment types, including manual hand tools, mechanical hand tools, and heavy mechanical equipment. No new high-intensity construction techniques (such as pile driving or blasting) would be introduced. Consequently, the vibration levels and associated impacts from proposed facilities would be essentially the same as those from current facilities. As a result, the O&M activities at proposed facilities would not result in excessive groundborne vibration or groundborne noise levels, and impacts would be less than significant.

c. Be located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not expose people residing or working in the project area to excessive noise levels due to airport or airstrip operations. It is noted that the CEQA Appendix G checklist questions for noise have changed since the 2013/2014 IS/MND was prepared. The current question "c", as stated above, combines two issues that were previously addressed in two separate questions in the 2013 MND. These were (1) noise from public airports or public use airports and (2) noise from private airstrips. The 2013 MND noted that the current RGP94 facilities are not located within an airport land use plan or within 2 miles of a public airport, public use airport, or private airstrip, and thus no impact would occur.

The newly proposed and extended sites under the proposed project would all be within the city of Escondido limits and, therefore, within the same general geographical boundaries considered in the 2013 MND. Similarly, no project sites (existing or proposed) would be located within an airport land use plan or within 2 miles of a public airport, public use airport, or private airstrip. Therefore, the proposed project would not expose people residing or working in the project area to excessive noise levels due to airport or airstrip operations, and no impact would occur.

## XIV. POPULATION AND HOUSING

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a.	Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?				
b.	Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?				

## **Environmental Evaluation**

Would the project:

a. Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?

**No Impact**. The MND found that implementation of the current RGP 94 would neither directly nor indirectly induce substantial population growth in the area. Similarly, population within the surrounding area would not incrementally increase as a result of implementation of the proposed project (City of Escondido 2012). The proposed O&M activities would not alter the location, distribution, or population density within the area, nor would they adversely impact the city's housing demand. The proposed project does not propose to create or expand infrastructure that would induce population growth. Therefore, no impacts would occur.

b. Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?

**No Impact**. The 2013 MND found that the implementation of the current RGP 94 would not displace a substantial number of people or housing, necessitating the construction of replacement housing elsewhere. Similarly, implementation of the proposed project would not displace a substantial number of people or housing (City of Escondido 2012). The proposed project consists of routine O&M activities and would not add any units to the existing housing stock and would not displace any people or create a demand for additional housing or necessitate the construction of housing elsewhere. Therefore, no impacts would occur.

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Would the project:				
a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:				
Fire protection?				$\boxtimes$
Police protection?				$\boxtimes$
Schools?				$\boxtimes$
Parks?				$\boxtimes$
Other public facilities?				$\boxtimes$

## xv. PUBLIC SERVICES

## **Environmental Evaluation**

Would the project:

a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:

#### Fire protection?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on fire protection services. Similarly, the proposed project would not result in substantial adverse impacts on fire protection services. Escondido is currently served by seven fire stations, located throughout the city (City of Escondido 2012). Due to the nature of the proposed project, it would not impact fire protection services and would not result in the need for expanded fire protection services. No impacts would occur.

#### Police protection?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on police protection services. Similarly, the proposed project would not result in substantial adverse impacts on police protection services. Due to the nature of the project, no significant impacts on police services are anticipated, and the proposed project would not result in the need for expanded police protection services. No impacts would occur.

#### Schools?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on schools. Similarly, the proposed project would not result in substantial adverse impacts on schools. The proposed project site is within the Escondido Union School District and the Escondido Union High School District. Due to the nature of the proposed project, it would not result in additional elementary and high school students, and would not result in the need for construction of additional schools. No impacts would occur.

#### Parks?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on parks. Similarly, the proposed project would not result in substantial adverse impacts on parks. Due to the nature of the proposed project, it would not result in an incremental increase in demand on the city's recreational facilities, and would not result in the need for additional parks. Three proposed project sites are located within park sites: maintenance facility H-17 and H-18 located within Kit Carson Park (3333 Bear Valley Parkway), and maintenance facility E-56 located with Rod Mcleod Park (1701 South Iris Lane). As discussed in the project description, proposed project activities at these sites would consist of short-term operation and maintenance work and would not result in substantial adverse impacts on parks. Most work activities would be completed within 2 to 5 days, and all of the sites would be accessed without impacting the surrounding areas, which would include either development (i.e., private homeowner landscaping) or upland native habitat. Further, all O&M activities would be completed during normal business hours (7:30 a.m. to 6:00 p.m.), Monday through Friday. Facility H-17 maintenance activities include removal of accumulated sediment and weed removal, facility H-18 maintenance activities include removal of accumulated sediment and vegetation within the concrete channel and repairing a segment of concrete within the channel, and facility E-56 maintenance activities include removal of accumulated sediment and weed removal. No other project sites are currently used for recreational activities and none are listed as a potential park site in the City's Master Plan of Parks, Trails and Open Spaces (City of Escondido 1999). Therefore, no significant impact on recreational resources would occur as a result of the proposed project.

#### Other public facilities?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on libraries or other public facilities. Similarly, the proposed project would not result in substantial adverse impacts on libraries or other public facilities. Due to the nature of the proposed project, it would not result in a significant increase in demand on library services or the development of additional library spaces. No substantial adverse physical impacts associated with the provision of new or physically altered San Diego Gas and Electric facilities would occur. The proposed project would not impact or affect any other public facilities in a manner that would result in the need for additional or expanded public facilities.

## XVI. RECREATION

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a.	Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				$\boxtimes$
b.	Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				

#### **Environmental Evaluation**

Would the project:

a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on existing neighborhood and regional parks or other recreational facilities. Similarly, the proposed project would not result in substantial adverse impacts on parks or recreational facilities. Due to the nature of the project, the O&M activities associated with the proposed project would not increase the use of existing neighborhood parks and regional parks or other recreational facilities. No impact on recreational resources would occur.

b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not include recreational facilities or require the construction or expansion of recreational facilities resulting in a substantial adverse impact on the environment. Similarly, the proposed project would not require construction or expansion of recreational facilities. The proposed project does not include any recreational facilities. Therefore, no impacts on recreational resources would occur.

## XVII. TRANSPORTATION

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?				$\boxtimes$
b.	Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?			$\boxtimes$	
C.	Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
d.	Result in inadequate emergency access?				$\boxtimes$

## **Environmental Evaluation**

Would the project:

a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not conflict with adopted policies, plans, or programs related to the performance of the circulation system or supporting alternative transportation. Similarly, the proposed project would not conflict with adopted policies, plans, or programs related to the performance of the circulation system or supporting alternative transportation. Project-related trips would primarily be associated with routine O&M activities and would be short term and temporary. The proposed project also would not impact any proposed bus routes or stops, or require the development of new or relocated bus stops. Therefore, no impact would occur.

b. Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?

**Less-than-Significant Impact**. The 2013 MND analyzed level of service impacts related to the current RGP 94 travel demand and did not include an analysis of vehicle miles traveled as described in State CEQA Guidelines Section 15064.3. Travel analysis conducted for the current RGP 94 found that vehicle trips would not substantially increase congestion or affect the level of service. Similarly, the proposed project consists of routine O&M activities that would not substantially increase congestion or affect the level of service. The proposed project would require on average three roundtrips per day. The frequency of maintenance activities would be site- and structure specific and would range from semi-annual to annual maintenance. Most of the maintenance activities would take between 2 to 5 days to complete; however, some sites would require work that could last up to 45 days. Given that the proposed project would only generate on average three roundtrips per day, well below OPR's screening threshold of 110 trips per day for small projects (Governor's Office of Planning and Research 2018), the proposed project would not conflict or be inconsistent with State CEQA Guidelines Section 15064.3, subdivision (b). Therefore, impacts would be less than significant and no mitigation is required.

c. Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not substantially increase hazards due to a design feature or incompatible uses. Similarly, the proposed project would not substantially increase hazards due to a design feature or incompatible uses. The proposed project consists only of routine O&M activities and does not propose any changes to existing roadway design features or any incompatible uses. Therefore, no impact would occur.

d. Result in inadequate emergency access?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not result in inadequate emergency access. Similarly, the proposed project would not result in inadequate emergency access. All O&M activities of the proposed project would be completed off of the roadways and would not block a roadway or impede traffic in any way. Emergency and nonemergency response times of the Escondido Fire Department would remain the same with the proposed project. Therefore, no impact would occur.

## XVIII. TRIBAL CULTURAL RESOURCES

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

### **Environmental Evaluation**

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

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

**Less Than Significant Impact with Mitigation Incorporated**. Records searches and archival research were negative for the presence of tribal cultural resources located within the project area. Additionally, ICF submitted a request to the Native American Heritage Commission (NAHC) for information in the Sacred Lands File database on May 21, 2019, in order to acquire more information about potential cultural resources within the APE and vicinity. A response from the NAHC was received on June 5, 2019. The NAHC indicated that no traditional cultural places are located within the APE that may be affected by the proposed project. Additionally, the NAHC provided a list of 31 Native American tribes and individuals to contact about the proposed project and requested follow-up phone calls. Letters were sent to the 31 Native American tribes and individuals (dated October 25, 2019). Responses were received from the Viejas Band of Kumeyaay Indians, the San Pasqual Band of Mission Indians, the Rincon Band of Luiseno Indians, and the Pala Band of Mission Indians. None of the responses from tribal contacts identified tribal cultural resources within the project area or vicinity, and consultation will continue as the project progresses.

AB 52, effective July 1, 2025, introduced the Tribal Cultural Resource as a class of cultural resource and additional considerations relating to Native American consultation into CEQA. Four Native

American tribes (Rincon, San Luis Rey, Soboba, and Mesa Grande) were mailed notification regarding the proposed project in conformance with AB 52. The Rincon and San Luis Rey tribes responded requesting formal consultation. Consultation was conducted with representatives from Rincon and San Luis Rey on June 17, 2020, along with review of select sites in the field with both Tribes. The Tribes requested monitoring at various sites and also agreed the standard mitigation measures developed with the Tribes and incorporated into the IS/MND for the project would adequately address any potential impact on Tribal Cultural Resources. Therefore, mitigation measures would be required for the project in order to address potential inadvertent discoveries of cultural resources, the content of which are included as mitigation measures CR1 through CR-4. Implementation of these mitigation measures would reduce potential impacts to tribal cultural resources).

b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1?

**Less Than Significant Impact with Mitigation Incorporated.** Records searches, archival research, NAHC, and tribal outreach were negative for the presence of tribal cultural resources located within the project area. See response to XVIII.a, above.

## XIX. UTILITIES AND SERVICE SYSTEMS

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

## **Environmental Evaluation**

Would the project:

a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not exceed wastewater treatment requirements of the applicable RWQCB. Similarly, the proposed project would not exceed wastewater treatment requirements of the applicable RWQCB. The proposed project includes the maintenance of existing structures and does not include or require expansion of the system or construction of a new wastewater treatment facility or new storm water facilities. Therefore, implementation of the proposed project would not result in exceedance of wastewater treatment requirements and no impacts would occur.

b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

**No Impact**. The 2013 MND identified that implementation of the current RGP 94 would not require a permanent source of water or require additional water entitlements. Similarly, the proposed project would not require a permanent source of water supply and would not require additional water

entitlements. Therefore, the proposed project would not result in a significant impact on water supplies, and no impacts would occur.

c. Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would not increase wastewater generation such that treatment facilities would be inadequate to serve the project's projected demand in addition to the provider's existing commitments. Similarly, the proposed project would not require wastewater treatment services or the expansion of a wastewater treatment facility. Therefore, no impact would occur.

d. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

**No Impact**. The 2013 MND found that the current RGP 94 waste disposal needs would be minimal and could be adequately served by the local landfill. Similarly, the proposed project would not impair the attainment of solid waste reduction goals. Escondido Disposal, Inc. (EDI) currently provides solid waste removal service for the Escondido area. EDI also operates a solid waste transfer station at their Washington Avenue site where solid waste pick-up would be available for the project by EDI for all O&M activities. The proposed project's solid waste disposal needs would be minimal and could be adequately served by the local infrastructure. Therefore, no impact would occur.

e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

**No Impact**. The 2013 MND found that implementation of the current RGP 94 would comply with all federal, state, and local statutes and regulations related to solid waste. Similarly, the proposed project would comply with all applicable federal, state, and local statues related to solid waste. Maintenance personnel would dispose of solid waste in accordance with applicable solid waste regulations. All O&M activities would comply with all federal, state, and local statutes and regulation related to solid waste. Therefore, no impact would occur.

### XX. WILDFIRE

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

## **Environmental Evaluation**

Would the project:

a. Substantially impair an adopted emergency response plan or emergency evacuation plan?

**Less-than-Significant Impact.** The 2013 MND found that implementation of the current RGP 94 would not substantially impair an adopted emergency response plan or emergency evacuation plan. Similarly, the proposed project would be consistent with, and not substantially impair, an adopted emergency response plan or emergency evacuation plan. The proposed project consists of routine O&M activities and does not include activities or structures that would impair the implementation of, or physically interfere with, an adopted emergency response plan or evacuation plan. The proposed O&M activities also are not expected to result in the need for additional emergency and fire facilities. Therefore, impacts would be less than significant.

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

**Less-than-Significant Impact.** As discussed above, the proposed project facilities are located at various sites within the city with varying topography, elevation, and setting. Sites are within suburban and urban areas, and surrounding development includes urban and suburban residences, commercial buildings, and shopping centers, schools, parks and open space, roadways, and other development types. General Plan land uses in the proposed project area are mainly Residential (Urban, Suburban, and Estate), Commercial, Planned Office, Public Land/Open Space, and Specific Plan Areas (Figure 2-4). Surrounding development varies in size, type, and age, and includes urban and suburban residences, commercial buildings and shopping centers, schools, parks and open

space, roadways and other development types. However, according to the State of California Fire Marshall (State of California Fire Marshall 2020), the proposed project is not located in a very high fire hazard zone area. In addition, as discussed in Section IX, *Hazards and Hazardous Materials*, the proposed project would not expose people or structures to wildland fires.

The proposed project would involve the routine removal of vegetation and/or sediment from various storm drain facilities (constructed and natural) for the proper function of the channel system and structures. Thus, due to the nature of the project, proposed activities would not increase the risk of wildfire or involve the construction of new habitable structures. Therefore, the proposed project would not expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire, and impacts would be less than significant.

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

**No Impact.** The proposed project involves the routine removal of vegetation and/or sediment from various existing storm drain facilities (constructed and natural) for the proper function of the channel system and structures. As discussed in Section 2, *Project Description*, project facilities are located on privately owned parcels or on City easements or rights-of-way. All work would be completed on private land, and access to structures for O&M activities would typically be from the nearest public roadway. Most sites would be accessed without impacting the surrounding areas, which would include either development (i.e., private homeowner landscaping) or disturbed habitat. One site (E-58 Reidy Creek Golf Course ) will require access points through upland native habitat as shown on Figure 2-3, Sheets 20 and 21. No installation or maintenance of wildfire infrastructure such as roads, fuel breaks, and emergency water sources is required, and thus the project would not result in temporary ongoing impacts on the environment. No impact would occur.

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

**Less-than-Significant Impact.** As discussed above in Section X, *Hydrology and Water Quality*, the purpose of the proposed project is to improve runoff conveyance and minimize flooding potential and would not affect flooding off site. In addition, as discussed in Section VII, *Geology and Soils*, the proposed project is not located in a landslide hazard zone. Therefore, the proposed project would not substantially alter the existing drainage pattern of the project area or result in a substantial increase in the rate or amount of surface runoff in a manner that would result in flooding on or off site. Therefore, impacts would be less than significant

## XXI. MANDATORY FINDINGS OF SIGNIFICANCE

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

### **Environmental Evaluation**

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

Less than Significant with Mitigation Incorporated. Consistent with what was discussed in the 2013 MND and 2014 Addendum, the potential impacts on the environment as a result of the proposed project would be related to the resource areas of Biological Resources and Cultural Resources. As discussed in the preceding applicable sections, O&M activities at some of the citywide facility locations have the potential to impact special-status species, sensitive vegetation communities, and federally or state-protected wetlands or waters. Although no known cultural resources would be adversely affected by the project, mitigation measures are included to prevent adverse impacts on undiscovered cultural/tribal cultural resources or human remains. Thus, with incorporation of mitigation, impacts on cultural resources would be less than significant.

With the implementation of mitigation measures BIO-1 through BIO-23 and CUL-1 through CUL-7, and conditions of approval listed in this document, the project is not expected to have any significant impacts. The project would not degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, or cause the fish or wildlife population to drop below self-sustaining levels. The project would not threaten to eliminate a plant or animal community or substantially reduce the number or restrict the range of a rare or endangered plant or animal. The project would not eliminate important examples of the major periods of California history or pre-

history. Lastly, the project would not materially degrade levels of service of the adjacent streets, intersections, or utilities. Thus, impacts would be less than significant with mitigation incorporated.

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

Less than Significant with Mitigation Incorporated. As discussed in the preceding paragraphs, protection of biological and cultural resources as well as hydrology and water quality would be achieved through implementation of mitigation measures (BIO-1 through BIO-23; CUL-1 through CUL-7; and WQ-1 through WQ-17) and would ensure that impacts remain less than significant. As a result, project implementation would not result in any individually limited, but cumulatively significant impacts on these resources.

Furthermore, when considering all potential environmental impacts of the proposed project, including impacts identified as less than significant in this IS/MND, together with the impacts of other present, past, and reasonably foreseeable future projects, there would not be a cumulatively considerable impact on the environment with the mitigation and monitoring measures incorporated into the proposed project.

c. Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

Less-than-Significant Impact. Refer to XXI.a and XXI.b, above.

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# APPENDIX A. MAINTENANCE ACTIVITIES FOR CURRENT RGP FACILITY LOCATIONS

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Facilities w	ith Hand Work Only					
	Facility ID	Maintenance Activities Performed				
• E-: • E-: • E-:	• E-19 17 • H-07	<ul> <li>Vegetation trimming/mowing using handtools such as chainsaw, hedge trimmer, and hand pruning saw.</li> <li>Debris and cuttings placed outside of jurisdictional waters before being removed from site</li> <li>Crews walk into site for maintenance activities.</li> <li>No equipment within jurisdictional waters.</li> </ul>				
Concrete-li	ned Channels - Use of T	Femporary Diversion Fills during Maintenance Work				
Facilities w	ith Tier I or II impacts					
Facility ID	Site Name	Maintenance Activities Performed				
E-01	2107 Pepper Tree Place	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged on disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>				
E-02	Nutmeg Street / Fire Station 3 (main channel)	<ul> <li>Sediment and vegetation removal</li> <li>Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>				

E-03	Nutmeg Street / Fire Station 3 (east outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged on disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-05	Carrotwood Glen (north outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged on disturbed upland habitat and/or adjacent street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-06	Carrotwood Glen (east outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-11	Reidy Creek Golf Course (north outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Use of equipment to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-12	Reidy Creek Golf Course (creek crossing)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged on disturbed upland habitat and/or adjacent street and backhoe or excavator used to scoop sediment out of wetland area for clean excavation.</li> <li>No dragging of equipment along banks and no equipment in earthen section of channel.</li> <li>Temporary BMPs are placed within the channel to reduce impacts to downstream waters.</li> </ul>

E-20	Vista Avenue (north segment)	<ul> <li>Sediment and vegetation removal</li> <li>Within concrete portion <ul> <li>Equipment is within channel to remove sediment and debris.</li> </ul> </li> <li>Within earthen portion <ul> <li>Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul> </li> </ul>
E-21	Vista Avenue (south segment)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-24	Center City Parkway / Decatur Way	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-25	Center City Parkway / Community Garden	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>

E-27	623 Escondido Boulevard	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged on disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-29	Trujillo Terrace (south outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-30	Trujillo Terrace (south inlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> <li>Temporary BMPs are placed within the channel to reduce impacts to downstream waters.</li> </ul>
E-35	Lake Wohlford Road	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged on disturbed upland habitat and/or street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-36	Lake Wohlford Court	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> </ul>

		<ul> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-40	Slivkoff Drive (east segment)	<ul> <li>Sediment and vegetation removal within a roadside ditch.</li> <li>Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-41	Slivkoff Drive (west segment)	<ul> <li>Sediment and vegetation removal within a roadside ditch.</li> <li>Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
E-42	Silverado Place	<ul> <li>Sediment and vegetation removal within a roadside ditch.</li> <li>Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
H-01	1855 Naranja Street	<ul> <li>Sediment and vegetation removal</li> <li>Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities.</li> <li>Temporary BMPs are placed within the jurisdictional waters to reduce impacts to downstream waters.</li> </ul>

H-02	2035 Escondido Boulevard <b>Corrected to: 1840</b> <b>S Centre City Pkwy</b>	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street or disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> <li>The expansion of this site is proposed with the RGP renewal.</li> </ul>
H-03	Amparo Drive	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
H-06	Center City Parkway / Brotherton Road	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
H-08	Kit Carson Park (north outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> </ul>

		• Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-09	Kit Carson Park (east channel)	<ul> <li>Sediment and vegetation removal</li> <li>Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
H-10	Kit Carson Park (south outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
H-11	Kit Carson Park (south driveway, culvert inlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>
H-12	Kit Carson Park (south driveway, culvert outlet)	<ul> <li>Sediment and vegetation removal</li> <li>Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>

H-13	3680 Sunset Drive	<ul> <li>Sediment and vegetation removal.</li> <li>Equipment is staged on disturbed upland area and use of backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>					
SM-02	Golden Circle	<ul> <li>Sediment and vegetation removal.</li> <li>Equipment is staged on disturbed upland area and use of backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>					
SM-03	Nutmeg Street / Country Club Lane	<ul> <li>Sediment and vegetation removal within a roadside ditch.</li> <li>Equipment is staged at top of bank or in street and use of backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation.</li> <li>Shovels used to clean out remaining sediment.</li> <li>No dragging of equipment along banks and no equipment in jurisdictional waters.</li> <li>Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.</li> </ul>					

# APPENDIX B. AIR QUALITY/GREENHOUSE GAS EMISSIONS MODEL OUTPUTS

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# Appendix B Air Quality and Greenhouse Gas Calculation Sheets

Equipment Type	Fuel Type	Quantity	Hours/day	CalEEMod or Off-Model/App D
		New Equ	uipment	
Chain saws	Gas	1	8	Appendix D
String trimmers	Gas	3	6	Appendix D
Hedge trimmers	Gas	1	6	Appendix D
Backhoe	Diesel	1	8	CalEEMod
Bobcat/Skid Steer	Diesel	1	8	CalEEMod
Excavator	Diesel	1	8	CalEEMod
		Current RGP	94 Equipment	
Loader	Diesel	4	8	CalEEMod
excavator	Diesel	4	8	CalEEMod
backhoe	Diesel	4	8	CalEEMod

### Offsite trips

	Trucks or workers/day	<u>Miles/trip</u>	<u>2</u>
Worker Trips	3	10.8	CalEEMod H-W Urban trip SDAB
Vendor Trucks	1	7.3	CalEEMod C-NW Urban trip SDAB
Haul Trucks	15	6	From applicant
Onsite trips	Hours/day	mph	miles/day
Water Truck	3	!	5 15
General Assumption	ns		
pounds per gram	0.00220462		
metric tons per gram	1.00E-06		
days per year (2020)	252		
ton/lbs	0.0005		
Grading PM10 EF	1.0605	lbs/acre	CalEEMod (no mitigation)
Grading PM2.5 EF	0.1145	lbs/acre	CalEEMod (no mitigation)

#### Emission Factor Summary Counties = San Diego

							F	unning (RUNE	X, PMTW, PMB	8W) grams per n	nile						Proc	ess (IDLEX, ST	REX, TOTEX,	DIURN, HTSK	(, RUNLS, RES	FL) grams pe	er trip		
Year	Air Basin	VehType	Lookup	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O
2020	SDAB	T6	2020SDABT6	0.21	3.46	0.59	0.09	0.26	0.08	0.08	0.01	1,050	0.01	0.17	0.01	1.81	0.17	0.00	0.00	0.00	0.00	0.00	58	0.00	0.01
2020	SDAB	T7	2020SDABT7	0.53	7.52	1.30	0.14	0.21	0.14	0.05	0.02	1,892	0.02	0.30	0.35	8.46	4.27	0.01	0.00	0.01	0.00	0.01	855	0.02	0.13
2020	SDAB	LDA-LDT	2020SDABLDA-LDT	0.02	0.07	0.80	0.00	0.12	0.00	0.02	0.00	302	0.00	0.01	0.90	0.25	2.45	0.00	0.00	0.00	0.00	0.00	62	0.07	0.03
2020	SDAB	T6Onsite	2020SDABT6Onsite	1.48	10.03	2.51	0.23	0.26	0.22	0.08	0.01	2,373	0.07	0.37	0.01	1.81	0.17	0.00	0.00	0.00	0.00	0.00	58	0.00	0.01
2020	SDAB	T7Onsite	2020SDABT7Onsite	2.11	17.47	4.14	0.29	0.21	0.27	0.05	0.02	3,669	0.10	0.58	0.35	8.46	4.27	0.01	0.00	0.01	0.00	0.01	855	0.02	0.13

#### Paved Road Dust Assumptions

Pollutant		Var	iables			Emission Factor (g per mi)
	k	sL	w	Р	N	Factor
PM10 D	0.0022	0.036423	2.4	42	365	0.1162
PM2.5 D	0.00	0.036423	2.4	42	365	0.0174

#### Unpaved Road Dust Assumptions

Scenario	Pollutant		Varia	bles			EF (g/mile)
		k	s	w	а	b	
Unmitigat	PM10 D	1.5	4.3%	17.5	0.9	0.45	9.5
Onningat	PM2.5 D	0.15	4.3%	17.5	0.9	0.45	0.9

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#### Escondido RGP - San Diego Air Basin, Winter

# Escondido RGP

#### San Diego Air Basin, Winter

# **1.0 Project Characteristics**

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	0.00	0.00	0

#### **1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electri	c			
CO2 Intensity (Ib/MWhr)	535.7	CH4 Intensity (Ib/MWhr)	0	N2O Intensity (Ib/MWhr)	0

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 SDG&E CO2e EF, based on 2019 Electric Procurement Revenue Require Forecasts and GHG-Related Forecasts, November 2018. (0.243 MTCO2e/MWh) 1 MT = 2204.62 lbs, 0.243 MT = 535.7 lbs CO2e/MWh

Land Use -

Construction Phase - Peak daily maintenance scenario.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Mobile emissions estimated using EMFAC.

Area Coating - SDAPCD Regulation 67.0.1 limits VOC content from architectural coatings.

Energy Use -

Grading -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	0.00	1.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	720.49	535.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	38.00	0.00

# 2.0 Emissions Summary

# 2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	ay							lb/d	ay		
2020	4.09	46.97	32.97	0.09	0.00	1.75	1.75	0.00	1.61	1.61	0.00	8525.31	8525.31	2.76	0.00	8594.24
Maximum	4.09	46.97	32.97	0.09	0.00	1.75	1.75	0.00	1.61	1.61	0.00	8525.31	8525.31	2.76	0.00	8594.24

#### **Mitigated Construction**

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	ay							lb/c	lay		
2020	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573	0.0000	8,594.240 9
Maximum	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573	0.0000	8,594.240 9

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

# **3.0 Construction Detail**

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/23/2020	3/23/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	5	8.00	158	0.38

Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Skid Steer Loaders	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	9	8.00	187	0.41

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	15	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

# 3.1 Mitigation Measures Construction

# 3.2 Site Preparation - 2020

# Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.0852	46.9695	32.9678	0.0881		1.7459	1.7459	Denomination (1997)	1.6062	1.6062		8,525.309 5	8,525.3095	2.7573		8,594.240 9
Total	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062		8,525.309 5	8,525.3095	2.7573		8,594.240 9

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.0852	46.9695	32.9678	0.0881		1.7459	1.7459		1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573		8,594.240 9
Total	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573		8,594.240 9

### Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Page 1 of 1

#### Escondido RGP - San Diego Air Basin, Annual

# Escondido RGP

#### San Diego Air Basin, Annual

## **1.0 Project Characteristics**

#### 1.1 Land Usage

Lan	d Uses	Size		Metric	Lot Acreage	Floor Surface Area	Population
User Define	d Recreational	0.00		User Defined Unit	0.00	0.00	0
1.2 Other Proj	ject Characterist	ics					
Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (I	<b>Days)</b> 40		
Climate Zone	13			Operational Year	2020		
Utility Company	San Diego Gas & Ele	ectric					
CO2 Intensity (Ib/MWhr)	535.7	CH4 Intensity (Ib/MWhr)	0	N2O Intensity (Ib/MWhr)	0		

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 SDG&E CO2e EF, based on 2019 Electric Procurement Revenue Require Forecasts and GHG-Related Forecasts, November 2018. (0.243 MTCO2e/MWh) 1 MT = 2204.62 lbs, 0.243 MT = 535.7 lbs CO2e/MWh Land Use -

Construction Phase - Peak daily maintenance scenario.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Mobile emissions estimated using EMFAC.

Area Coating - SDAPCD Regulation 67.0.1 limits VOC content from architectural coatings.

Energy Use -

Grading -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	0.00	1.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	720.49	535.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	38.00	0.00

# 2.0 Emissions Summary

### 2.1 Overall Construction

### **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	:/yr							MT	/yr		
2020	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.00	0.00	3.90
Maximum	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.00	0.00	3.90

#### **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							MT	/yr		
2020	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983
Maximum	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quarter	St	art Date	End	d Date	Maxim	um Unmitiga	ated ROG ·	NOX (tons	(quarter)	Мах	imum Mitiga	ited ROG +	NOX (tons/q	juarter)	1	
1	3-	23-2020	6-2	2-2020			0.0182					0.0182				
			Hi	ghest			0.0182					0.0182				

# **3.0 Construction Detail**

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/23/2020	3/23/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Skid Steer Loaders	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	9	8.00	187	0.41

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	15	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	-	HHDT

3.1 Mitigation Measures Construction

# 3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e- 003	0.0235	0.0165	4.0000e- 005		8.7000e- 004	8.7000e- 004		8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983
Total	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983

**Unmitigated Construction Off-Site** 

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

# Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e- 003	0.0235	0.0165	4.0000e- 005		8.7000e- 004	8.7000e- 004		8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983
Total	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Work	er	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Tota	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

#### Off-Road Equipent (Gas) Emissions

Equipment	#/dav	hrs/day	НР				Pounds pe	er day							Tons pe	er year					Metric ton	s per year	
Equipment	#/ day	in sy day		ROG	NOx	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	ROG	NOX	со	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e
Chain Saws	1	8	15	32	1	89	0	0			0	4	0	11	0	0			0	27	0		32
Trimmers	4	6	5	5	2	101	0	0			0	1	0	13	0	0			0	26	0		27
Total				38	3	190	0	0	0	0	0	5	0	24	0	0	0	0	0	53	0	0	59

#### Table 7.2- Landscape Equipment Running Emission Factors g/bhp-hr Commercial or

Equipment Type Y	'ear	Engine	Residential	Low HP	High HP	F	ROG	со	NOx	SO2	PM10	PM2.5	CO2	CH4
Chainsaws		2020 G2	С		0	2	122.245	336.69	2.866	0.036	6 0.667	0.667	884.645	7.598
Chainsaws		2020 G2	С		6	15	727.09	1573.283	13.915	0.174	2.675	2.675	4229.983	45.192
Chainsaws		2020 G2	R		0	2	122.245	336.69	2.866	0.036	6 0.667	0.667	884.645	7.598
Chainsaws		2020 G2	R		6	15	727.09	1573.283	13.915	0.174	2.675	2.675	4229.983	45.192
Trimmers/Edgers/B		2020 G2	R		0	2	77.851	285.983	2.482	0.03	L 0.449	0.449	772.991	4.838
Trimmers/Edgers/B		2020 G4	С		3	5	19.759	381.691	8.585	0.029	0.361	0.361	858.879	1.111
Trimmers/Edgers/B		2020 G4	R		3	5	19.759	381.691	8.585	0.029	0.361	0.361	858.879	1.111

**Grading Emissions** 

				Pounds	per day			
Strip (acres/day)	ROG	NOX	СО	PM10	PM2.5	PM10 D	PM2.5 D	SO2
1						1.0605004	0.1145092	

#### Mobile Emissions

	Veh type	VMT/day	Trips/day					Poun	ds per Day					Met	ric Tons per	Day		Metric Tor	ns per Year	
	ventype	vivi1/uay	TTPS/uay	ROG	NOx	CO	PM10 Ex	PM10 D	PM10 Total	PM2.5 Ex	PM2.5 D	PM2.5 Total	SO2	CO2	CH4	N2O	CO2	CH4	N2O	CO2e
Worker Trips	LDA-LDT	65	6	0.01	0.01	0.15	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	5	0	0	5
Haul Trucks	T7	180	30	0.23	3.54	0.80	0.06	0.08	0.14	0.05	0.02	0.08	0.01	0.37	0.00	0.00	92	0	0	97
Vendor Trucks	Т6	15	2	0.01	0.12	0.02	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.02	0.00	0.00	4	0	0	4
Water Trucks	T6Onsite	15	1	0.05	0.34	0.08	0.01	0.01	0.02	0.01	0.00	0.01	0.00	0.04	0.00	0.00	9	0	0	9
Total				0	4	1	0	0	0	0	0	0	0	0	0	0	110	0	0	115

#### Daily Criteria Air Pollutant Emissions (lbs/day)

	ROG	NOx	со	SOx	PM10	PM2.5
Offroad Equipment	42	50	223	0	2	2
Mobile	0	4	1	0	0	0
Grading	0	0	0	0	1	0
Total	42	54	224	0	3	2
Threshold	75	250	550	250	100	55
Exceed Threshold?	No	No	No	No	No	No

Annual GHG Emissions (MTCO2e/year)

CO2	CH4	N2O	CO2e
57	0	0	63
110	0	0	115
0	0	0	0
167	0	0	178
Threshold			2,500
Exceed Thres	hold?		No

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# Memorandum

То:	Elisa Marrone City of Escondido
From:	Lanika Cervantes; ICF
Date:	March 3, 2020
Re:	City of Escondido Regional General Permit 94 – Biological Resources Memorandum

This memorandum documents the results of the jurisdictional delineation (JD), vegetation mapping, and habitat assessment effort completed for the new facility locations to be added to the City of Escondido Regional General Permit (RGP) 94.

# **Project Description**

As part of the City of Escondido's (City) ongoing needs to effectively maintain its municipal separate storm system (MS4), the City is planning to add an additional 24 facility locations, expand a current facility location, as well as include additional work activities.

The overall project description for all new and existing facility locations is provided below.

The types of facilities that will be added as new facilities under the RGP 94 are listed below and include:

- Earthen streams/creeks and storm water channels with hydrologic regimes ranging from ephemeral to perennial,
- Concrete bottom channels with hydrologic regimes of ephemeral and intermittent,
- Culverts and their associated inlets and outlets, and
- A storm water basin.

The following work activities will be conducted at the new and existing facility locations:

- Accumulated sediment and herbaceous vegetation within concrete channels and earthen streams/creeks will be excavated to allow for positive flow,
- Culvert inlets and outlets will be excavated and cleared within a specified radius,

- Nonnative trees will be removed within specified facility locations,
- One-time native tree removal to gain access and/or allow for positive flows will occur at specific facility locations (either cut at stump, leaving root in place or root and all removal depending on its location),
- Native shrub and tree cover that inhibit positive flow and create debris jams will be trimmed, and
- Accumulated sediment and vegetation within a basin will be excavated.

# **Project Location**

The Project is located within drainage facilities located at multiple sites in the city of Escondido, California (Figures 1 and 2 located in Attachment 1).

# Methodology

Prior to beginning the biological surveys, ICF biologists Lanika Cervantes and William Kohn reviewed aerial photography and areas with topographical configurations and vegetative signatures occurring within the survey areas. Table 1 below presents the survey dates and personnel who conducted the surveys.

Date of Survey	Personnel	Survey Details
February 18, 2019	Lanika Cervantes and William Kohn	JD; Veg Mapping; Habitat Assessment
February 26, 2019	Lanika Cervantes and William Kohn	JD; Veg Mapping; Habitat Assessment
February 27, 2019	William Kohn and Ryan Layden	JD; Veg Mapping; Habitat Assessment
March 25, 2019	Shawn Johnston and Kelsey Dix	Veg Mapping and rare plant species potential
November 1, 2019	Lanika Cervantes and Kelsey Dix	JD; Veg Mapping, Habitat Assessment

**Table 1. Survey Dates** 

# **Vegetation Communities**

Vegetation communities were mapped within the survey areas according to the Holland Vegetation Classification (Holland 1986) as amended by Oberbauer (2018) to describe the unique vegetation communities of San Diego County. Vegetation communities were delineated using an Apple iPad using Collector Map with a sub-meter accuracy global positioning systems (GPS) unit.

# **Habitat Assessment**

A California Natural Diversity Database (CNDDB) list was generated prior to the habitat assessment to determine which species have potential to occur within the 24 facility locations. Based on this list, it was determined that least Bell's vireo (*Vireo bellii*) (LBVI), coastal California gnatcatcher (*Polioptila californica*) (CAGN), and San Diego Ambrosia (*Ambrosia pumila*) have a high potential to occur within the project sites. The habitat assessment focused on surveying for suitable riparian nesting and foraging habitat for least Bell's vireo, suitable Diegan coastal sage scrub nesting and foraging habitat for coastal California gnatcatcher, and suitable habitat for San Diego Ambrosia. Critical habitat for coastal California gnatcatcher was determined by overlaying the U.S. Fish and Wildlife Service Critical Habitat Map with a map of the project boundaries in ArcGIS. All other Threatened, Endangered, and Special Status Species along with suitable nesting habitat were also documented during the habitat assessment.

# **Jurisdictional Delineation**

Prior to beginning the field delineation, aerial photography, USGS topographic maps, the national hydrography dataset (NHD), and the National Wetland Inventory (NWI) maps were analyzed to determine the locations of potential areas of US Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) jurisdiction.

Potential jurisdictional features were evaluated for the presence of a definable channel and/or wetland vegetation, soils, and hydrology. The delineation area was analyzed for potential wetlands using the methodology set forth in *the 1987 USACE Wetland Delineation Manual* (Environmental Laboratory 1987) and *the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008a). While in the field, the jurisdictional feature was mapped using an Apple iPad using Collector Map with a sub-meter accuracy global positioning systems (GPS) unit.

# Results

# **Vegetation Communities**

A total of 17 vegetation communities were mapped within the facility locations and their 100-foot survey buffer. Below is a description of each vegetation community. Table 2 presents the total acreage of each vegetation community occurring with the Facility Locations where excavation and removal of vegetation is proposed using heavy equipment and their survey buffers. Table 3 presents the total acreage of each vegetation community occurring within the Facility Locations where only removal of nonnatives and trimming of native vegetation is proposed using handtools only and their survey buffers.

#### Southern Arroyo Willow Riparian Forest 61320

This riparian habitat is dominated by arroyo willow (*Salix lasiolepis*) and understories usually consist of shrubby willows, such as red willow (*Salix laevigata*). Other species found in this habitat type in the survey area include: fan palm (Washington fillferia), pampas grass (*Cortaderia selloana*),

and an emergent wetland understory structure. Within the survey area, this is one of the dominate vegetation communities within the larger natural drainage areas.

# Southern Cottonwood-Willow Riparian Forest 61330

This habitat is dominated by cottonwoods (*Populus fremontii*) and sycamores (*Platanus racemosa*) along with several tree and shrubby willows (*Salix* spp.). Other species that can be found include: mule fat (*Baccharis salicifolia*), wild cucumber (*Marah macrocarpa*) and nettles (*Urtica* spp.). Disturbed Southern Cottonwood-Willow Riparian Forest occurs along Reidy Creek and is due to the sparse canopy of native trees and the abundance of Mexican fan palms (*Washingtonia robusta*). Within the survey area, this is one of the dominate vegetation communities within the natural drainage areas.

### **Emergent Wetland 52440**

Emergent wetlands are generally persistent wetlands that are dominated by low growing, perennial wetland species, such as (*Anemopsis*), (*Eleocharis* spp.), spiny rush (*Juncus* spp.), wild rose (*Rosa californica*), mule fat (*Baccharis salicifolia*), and small willows (*Salix* spp.). These often occur in areas of previous disturbance and the full diversity of species are not yet established. Within the survey area, this vegetation community occurs directly adjacent to riparian habitat within Reidy Creek and tributaries to San Dieguito Creek.

# **Coastal and Valley Freshwater Marsh 52400**

This habitat type is dominated by perennial monocots that often form closed canopies. Bulrush (*Scirpus* spp.) and cattails (*Typha* spp.) are the dominate species along with *Carex* spp. and *Eleocharis* spp. Within the survey area, this vegetation community occurs near the low flow channels of larger drainage areas within Reidy Creek.

#### Mule Fat Scrub 63310

Mule fat scrub is a riparian community solely dominated by mule fat (Baccharis salicifolia) and is commonly found where flooding is frequent, otherwise more established tree would dominate the landscape. Within the survey area, this vegetation community occurs within the Reidy Creek Golf Course and the Kit Carson Bike Train facility locations.

#### Southern Riparian Scrub 63300

This habitat occurs in riparian regions that are dominated by small trees or shrubs, without taller riparian trees. Many willow species are common (*Salix* spp.), as well as coyote bush (*Baccharis sarothroides*). Other species found within this community while surveying were: cattails (*Typha* spp.), laurel sumac (*Malosma laurina*), Acacia spp., and sages (*Salvia* spp.). Within the survey area, this vegetation community occurs within the larger natural drainage areas.

#### Southern Willow Scrub 63320

This habitat is a dense aggregation of several willow species (*Salix* spp.) with a few small cottonwoods (*Populus fremontii*) and scyamores (*Platanus racemosa*). Due to the dense nature of the stands, there is poor understory development. Within the survey area, this vegetation community occurs within the larger natural drainage areas.

City of Escondido Regional General Permit 94 – Biological Resources Memorandum March 3, 2020 Page 5 of 12

#### Open Water 64110

These areas are considered to contain year-round bodies of water with less than 10% vegetative cover that form lakes, streams, ponds or rivers. Within the survey area, Reidy Creek supports areas of open water due to dense vegetation that causes ponding and the inability for water to flow downstream.

### **Unvegetated Channel 64200**

These areas consist of sandy, gravelly, or rocky fringes of waterways or flood channels. There is typically little to no vegetation present within these areas. Within the survey area, this is the main habitat type that occurs within the facility locations.

#### **Coast Live Oak Woodland 71160**

This vegetation community is dominated by coast live oak (*Quercus agrifolia*). The shrub layer is poorly developed and the herb understory is usually composed of non-native grasses (*Bromus* spp.). Within the survey area, this vegetation community is found in small locations near facilities and roadways.

### Southern Coast Live Oak Riparian Forest 61310

This riparian habitat type is dominated by coast live oak (*Quercus agrifolia*) and it often has a richer understory of herbs while poorer in shrubs when compared to other riparian communities. Within the survey area, this vegetation community occurs within facility locations adjacent to open space.

#### Diegan Coastal Sage Scrub 32500

Diegan coastal sage scrub occurs in steep, xeric slopes dominated low, soft-woody subshrubs, California sagebrush (*Artemisia californica*) and California buckwheat (*Eriogonum fasciculatum*), with other species such as laurel sumac (*Malosma laurina*), white sage (*Salvia apiana*), and black sage (*Salvia mellifera*). Only a small amount of Diegan coastal sage scrub habitat occurs in a facility location, this vegetation community primarily occurs within the survey buffer.

#### **Eucalyptus Woodland 79100**

Eucalyptus woodlands are non-native stands of Eucalyptus spp., most commonly blue gum (*Eucalyptus globulus*) and red gum (*E. camaldulensis*), usually planted. There is usually little or no shrubby understory present due to the bark and leaf litter produced by the trees. Within the survey area, this vegetation community occurs in facility locations that occur near urban developments and roads.

#### Non-Native Woodland 79000

This habitat consists of a composition of planted, non-native tree species, such as pepper trees (*Schinus* spp.), tamarisk (*Tamarix* spp.) and Eucalyptus spp. Within the survey area, this vegetation community occurs near roadsides and within ornamental plantings associated with urban developments.

City of Escondido Regional General Permit 94 – Biological Resources Memorandum March 3, 2020 Page 6 of 12

#### **Non-Native Grassland 42200**

This habitat type is composed of a dense to sparse cover of annual grasses along with some native annual forbs, especially in years of good rainfall. Indicator species include oats (*Avena* spp.), bromes (*Bromus* spp.), filarees (*Erodium* spp.) and mustards (*Brassica* spp. and *Hirshfeldia incana*). In the survey area, this vegetation community occurs in areas of disturbance that are near urban developments and roads.

# Disturbed Habitat 11300

Disturbed habitat consists of predominantly non-native species, such as invasive forbs including mustards and thistles and a limited number of grass species, are not typically artificially irrigated, and retain a soil substrate. This habitat is found where the ground in continually disturbed and is no longer recognizable as a native or naturalized community. Within the survey area, this vegetation community occurs along roadsides and other areas of continued disturbance to the vegetation.

### **Urban/Developed 12000**

Urban and developed lands include all areas that have been constructed upon or otherwise altered to such an extent that native vegetation is no longer supported. This would encompass all buildings, parking lots, ornamental plantings and any other modified urban environment. Within the survey area, the majority of facility locations occurs near roadways and urban areas.

Table 2. Vegetation Communities and Land Cover Types within Facility Location and Survey Buffer
- Sites Requiring Excavation and Vegetation Removal (Acres)

Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-ft Buffer	Grand Total	
Riparian and Wetlands				
Southern Arroyo Willow Riparian Forest	0.02	2.08	2.10	
So.Cottonwood-Willow Riparian Forest	0.57	4.69	5.26	
Disturbed So.Cottonwood-Willow Riparian Forest	0.01	0.00	0.01	
Emergent Wetland	-	0.40	0.40	
Coastal and Valley Freshwater Marsh	-	0.11	0.11	
Mulefat Scrub	-	0.14	0.14	
Southern Riparian Scrub	0.03	0.85	0.88	
Southern Willow Scrub	0.09	0.87	0.96	
Open Water	<0.01	0.27	0.27	
Unvegetated Channel	0.34	0.05	0.39	
Total Riparian and Wetlands	1.05	9.47	10.52	
Uplands				
Coast Live Oak Woodland	-	0.79	0.79	
Southern Coast Live Oak Riparian Forest	0.03	0.25	0.28	
Diegan Coastal Sage Scrub	<0.01	3.01	3.01	
Eucalyptus Woodland	<0.01	1.613	1.61	
Non-native Woodland	0.102	0.840	0.94	
Non-native Grassland	0.032	4.938	4.97	
Total Uplands	0.16	11.44	11.61	
Other Land Cover Types				
Disturbed Habitat	0.01	2.77	3.38	
Urban / Developed	0.80	38.27	39.07	
Total Other Land Cover Types	0.80	41.04	42.45	
Grand Total	2.02	61.95	64.58	

Table 3. Vegetation Communities and Land Cover Types within Facility Location and Survey Buffer -Sites Requiring use of Handtools Only for Nonnative Removal and Native Vegetation Trimming -Facility Locations E-51 and E-54 (Acres)

Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-ft Buffer	Grand Total	
Riparian and Wetlands				
So.Cottonwood-Willow Riparian Forest	1.53	-	1.53	
Disturbed So.Cottonwood-Willow Riparian Forest	6.82	0.13	6.95	
Coastal and Valley Freshwater Marsh	0.81	-	0.81	
Total Riparian and Wetlands	9.15	0.13	9.29	
Uplands				
Eucalyptus Woodland	0.04	0.31	0.36	
Non-native Woodland	1.04	1.80	2.84	
Non-native Grassland	3.81	4.95	8.77	
Total Uplands	4.90	7.06	11.96	
Other Land Cover Types				
Disturbed Habitat	0.05	0.56	0.60	
Urban / Developed	0.42	18.50	18.92	
Total Other Land Cover Types	0.47	19.06	19.53	
Grand Total	14.52	26.26	40.78	

# **Habitat Assessment**

A habitat assessment was conducted for the 24 new facility locations and 1 expanded facility location. The habitat assessment concluded that of the 25 sites, 11 sites support suitable habitat for LBVI, three sites support suitable habitat for CAGN, two sites are located in CAGN designated critical habitat, and nine sites support suitable habitat for San Diego Ambrosia. See Table 4 below for a description of which facility sites provide suitable habitat and/or designated critical habitat for LBVI, CAGN, and San Diego Ambrosia. For information on Threatened, Endangered, and Special Status Species detected within the Vicinity of the new and expanded facilities as well as suitable nesting habitat refer to the Facility Location Site Forms included as Attachment 2.

Facility Location	Site Name	LBVI	CAGN and/or within its designated critical habitat	San Diego Ambrosia
E-53	Reidy Creek: Rincon to Pleasantwood	Yes	-	Yes
E-54	Reidy Creek - Morning View	Yes	-	Yes
E-55	HARRF	Yes	-	-
E-58	Reidy Creek Golf Course	Yes	_	Yes
E-60	Oak Valley Lane	Yes	_	Yes
H-15	Sierra Linda	-	Yes; Critical Habitat	-
H-16	Concerto and Beethoven	-	Yes	Yes
H-17	Bear Valley Pkwy	Yes		Yes
H-18	Kit Carson Bike Trail	Yes	Yes; Critical Habitat	Yes
H-19	Encino and Amparo	Yes	_	-
H-20	Sunset and Bear Valley	Yes		Yes
H-21	Via Rancho Prky and Sunset Drive	Yes	-	-
SM-05	Woodland Pkwy	Yes	-	Yes

# Table 4. Suitable Habitat within Facility Locations

# **Jurisdictional Delineation**

A total of 13.15 acres of waters of the U.S. and 16.42 acres of CDFW riparian and/or streambed occur within the Facility locations (Table 5; Figure 2). These jurisdictional waters occur within the San Diego and San Luis Rey-Escondido watersheds. Specific information for each facility location is provided in the Facility Location Site Forms (Attachment 2) along with wetland and OHWM data forms and photographs. Representative OHWM data forms were completed for each type of jurisdictional water (i.e. concrete-lined, roadside drainage, and natural drainage) and not completed for each facility location.

Waters of the U.S		CDFW Waters	
Nonwetland (Acres)	Wetland (Acres)	Streambed (Acres)	Riparian (Acres)
1.09	12.06	1.39	15.03

# Table 5. Jurisdictional Waters Occurring within the Facility Locations

### Attachments

- 1. Figures
- a. Project Overview Map
- b. Project Mapbook
- 2. Facility Location Site Forms and Data Forms

Attachment 1 Figures

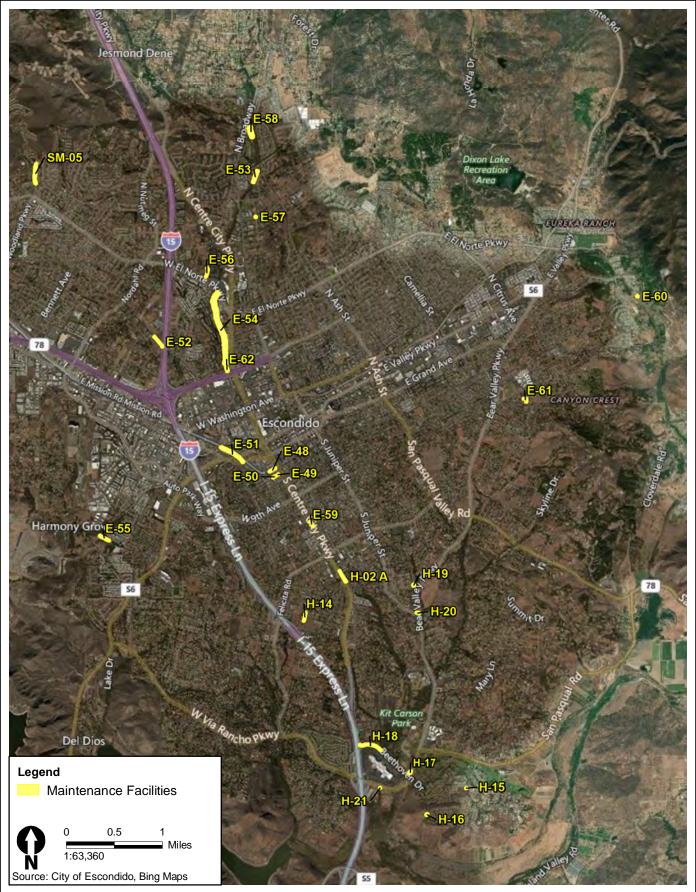
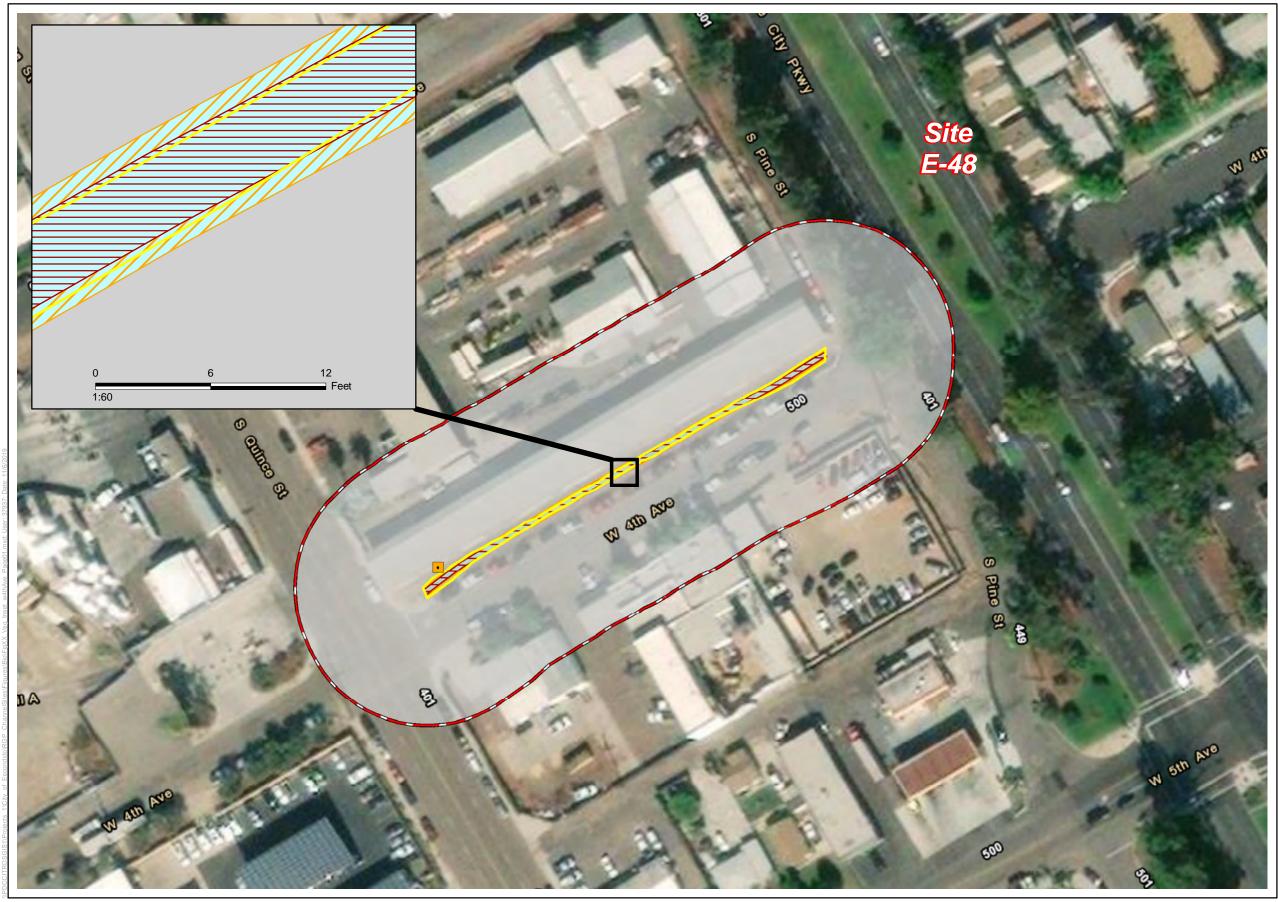




Figure 1 Project Overview City of Escondido Channel Maintenance Project





- Inlet
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

### **CDFW Jurisdiciton**

- **Kiparian Extent**
- Channel Bed and Bank

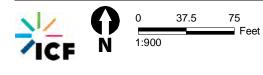
#### Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 1 of 39 E-48 W 4th Ave. **City of Escondido Channel Maintenance Project** 





Maintenance Sites

100-ft Buffer

USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW Jurisdiciton**

- **Riparian Extent**
- Channel Bed and Bank

# Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 2 of 39 E-49 W 5th and Pine City of Escondido Channel Maintenance Project





City of Escondido Channel Maintenance Project

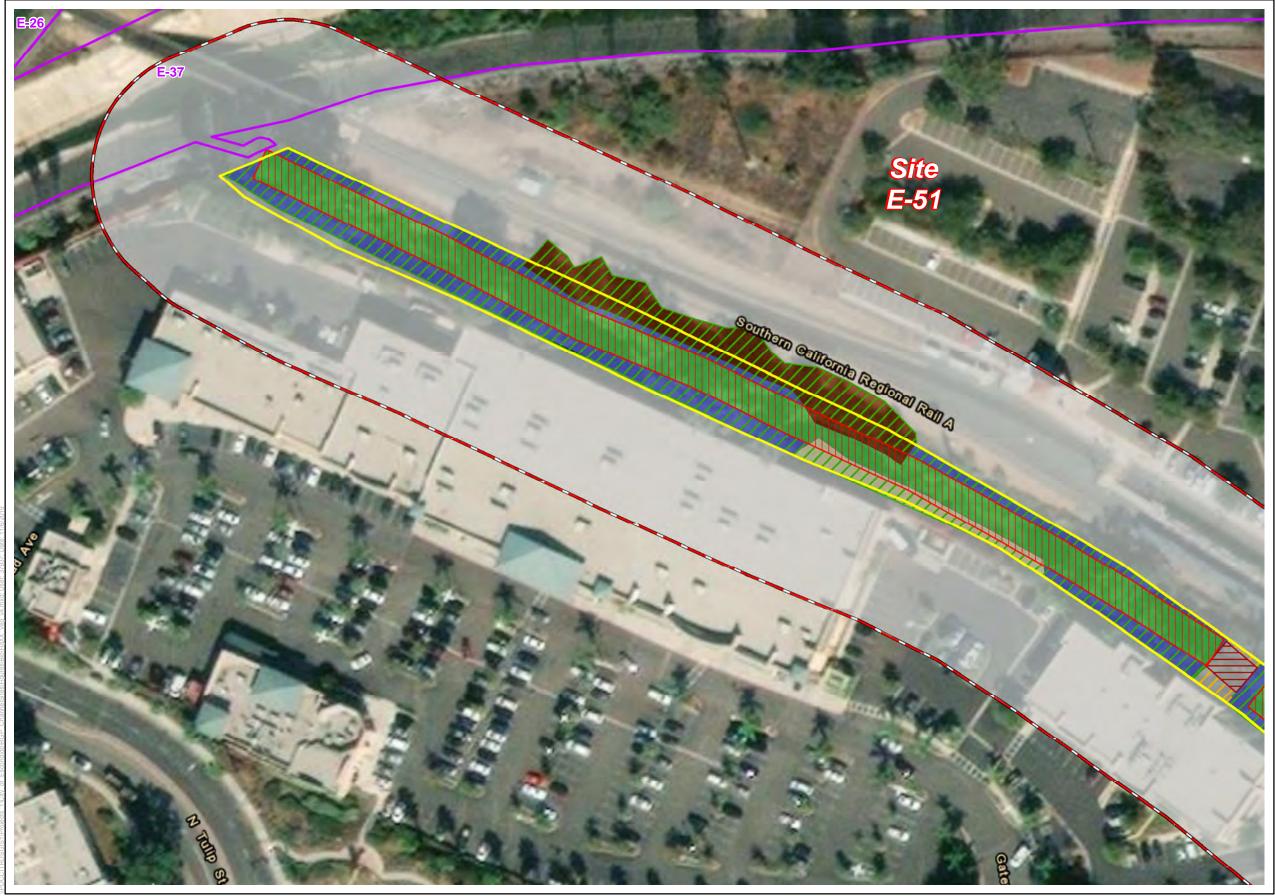




Legend Dift Buffer

Maintenance Sites Map Sheet Extent

Overview E-51 800 W Valley City of Escondido Channel Maintenance Project





100-ft Buffer

- Current RGP Maintenance Footprints
- Maintenance Sites

# USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW** Jurisdiciton

- **Z** Riparian Extent
- Channel Bed and Bank

### Vegetation

- Coastal and Valley Freshwater Marsh
- Disturbed So.Cottonwood-Willow Riparian Forest
  - Non-native Grassland
- Non-native Woodland
- Urban / Developed

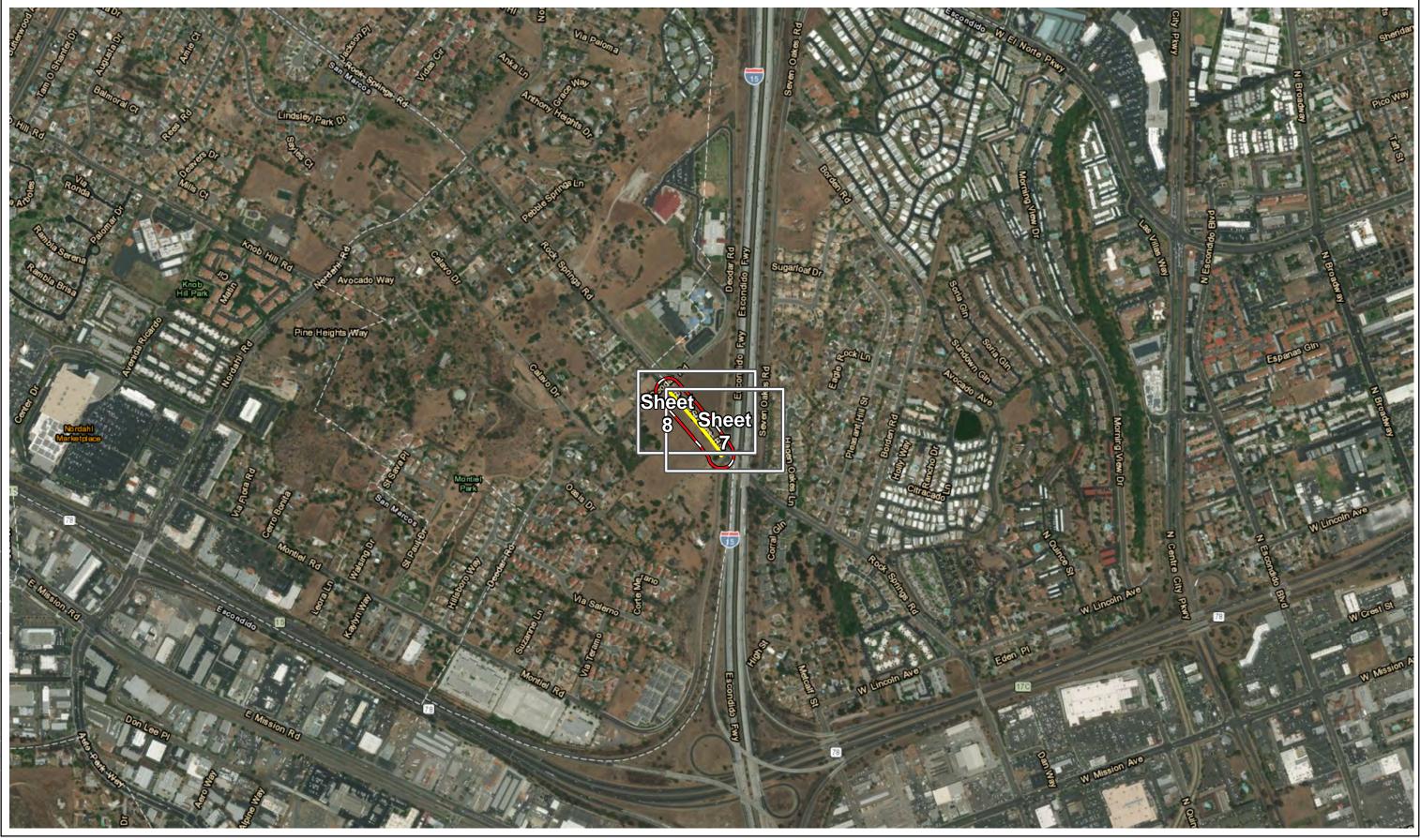
Source: City of Escondido; ICF 2019

Sheet 4 of 39 E-51 800 W Valley City of Escondido Channel Maintenance Project



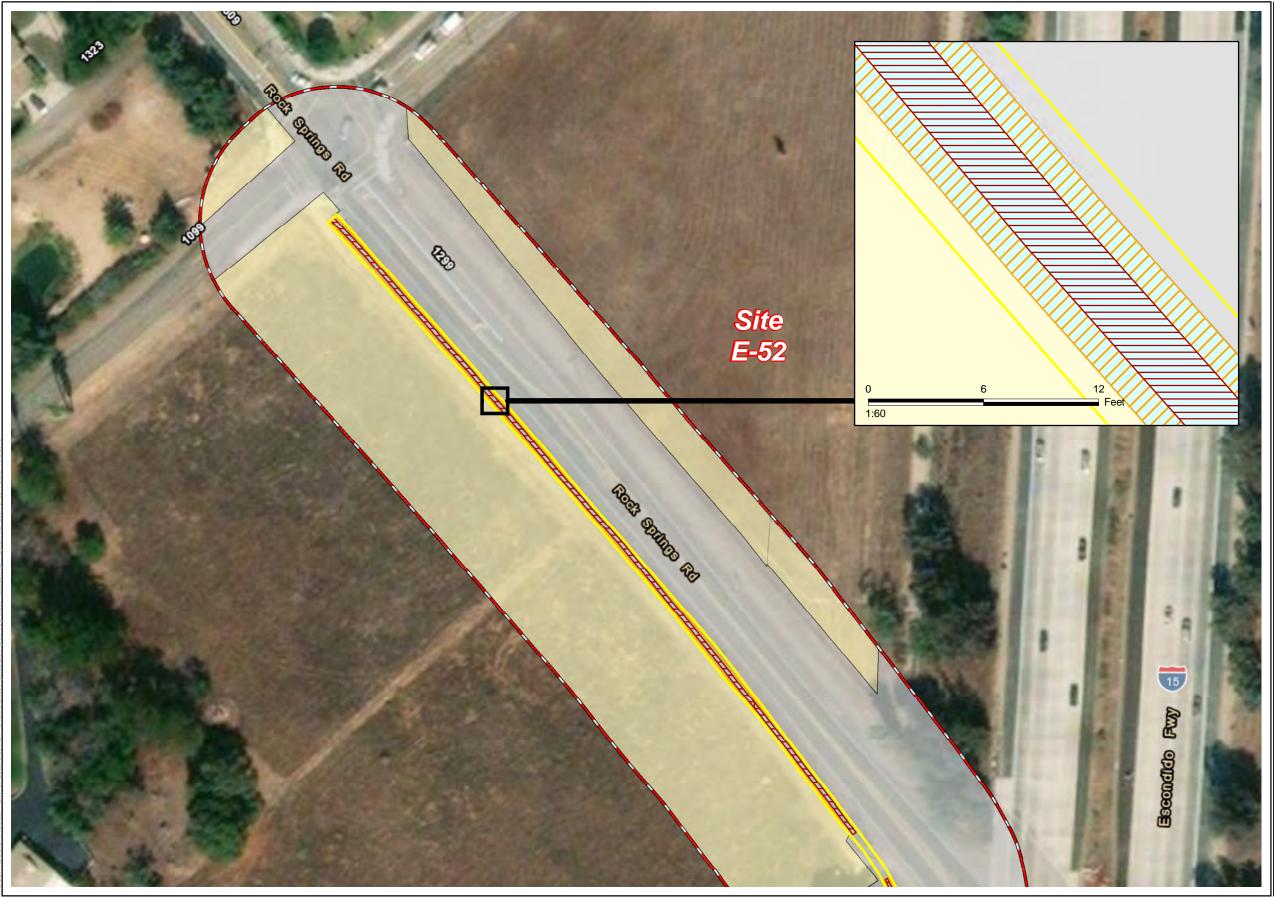


Sheet 5 of 39 E-51 800 W Valley **City of Escondido Channel Maintenance Project** 





Overview E-52 Rock Springs (1) City of Escondido Channel Maintenance Project





Maintenance Sites

100-ft Buffer

# USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

### Vegetation

- Unvegetated Channel
- Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 6 of 39 E-52 Rock Springs (1) City of Escondido Channel Maintenance Project







- 🛄 100-ft Buffer
- Maintenance Sites
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters
- **CDFW** Jurisdiciton
- Z Riparian Extent
- Channel Bed and Bank

# Vegetation

- Unvegetated Channel
  - Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 7 of 39 E-52 Rock Springs (1) City of Escondido Channel Maintenance Project



Reidy Creek: Rincon to Pleasantwood City of Escondido Channel Maintenance Project



# 37.5 75 1:900

E-53 **Reidy Creek: Rincon to Pleasantwood City of Escondido Channel Maintenance Project** 





- 100-ft Buffer
- Maintenance Sites

**USACE/RWQCB** Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW** Jurisdiciton

- **Riparian Extent**
- Channel Bed and Bank

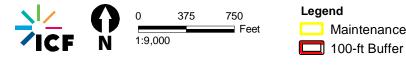
#### Vegetation

- Eucalyptus Grove
- Eucalyptus Woodland
- So.Cottonwood-Willow Riparian Forest
- Southern Riparian Scrub
- Disturbed Habitat
- Urban / Developed

Source: City of Escondido; ICF 2019

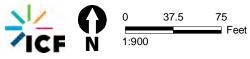
Sheet 9 of 39 E-53 **Reidy Creek: Rincon to Pleasantwood City of Escondido Channel Maintenance Project** 





Overview E-54 Reidy Creek - Morning View City of Escondido Channel Maintenance Project





Legend Outlet 100-ft Buffer Maintenance Sites **USACE/RWQCB** Jurisdiction Nonwetland Waters Wetland Waters **CDFW** Jurisdiciton Z Riparian Extent Channel Bed and Bank Vegetation Coastal and Valley Freshwater Marsh Disturbed So.Cottonwood-Willow Riparian Forest Non-native Grassland Non-native Woodland Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 10 of 39 E-54 Reidy Creek - Morning View City of Escondido Channel Maintenance Project





Sheet 11 of 39 E-54 **Reidy Creek - Morning View** City of Escondido Channel Maintenance Project





- Outlet
- 100-ft Buffer
- Maintenance Sites

# **USACE/RWQCB** Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

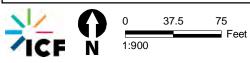
# Vegetation

- Eucalyptus Woodland
  - Disturbed So.Cottonwood-Willow Riparian Forest
  - Non-native Grassland
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 12 of 39 E-54 **Reidy Creek - Morning View** City of Escondido Channel Maintenance Project





- Outlet
- 100-ft Buffer
- Maintenance Sites

# **USACE/RWQCB** Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW** Jurisdiciton

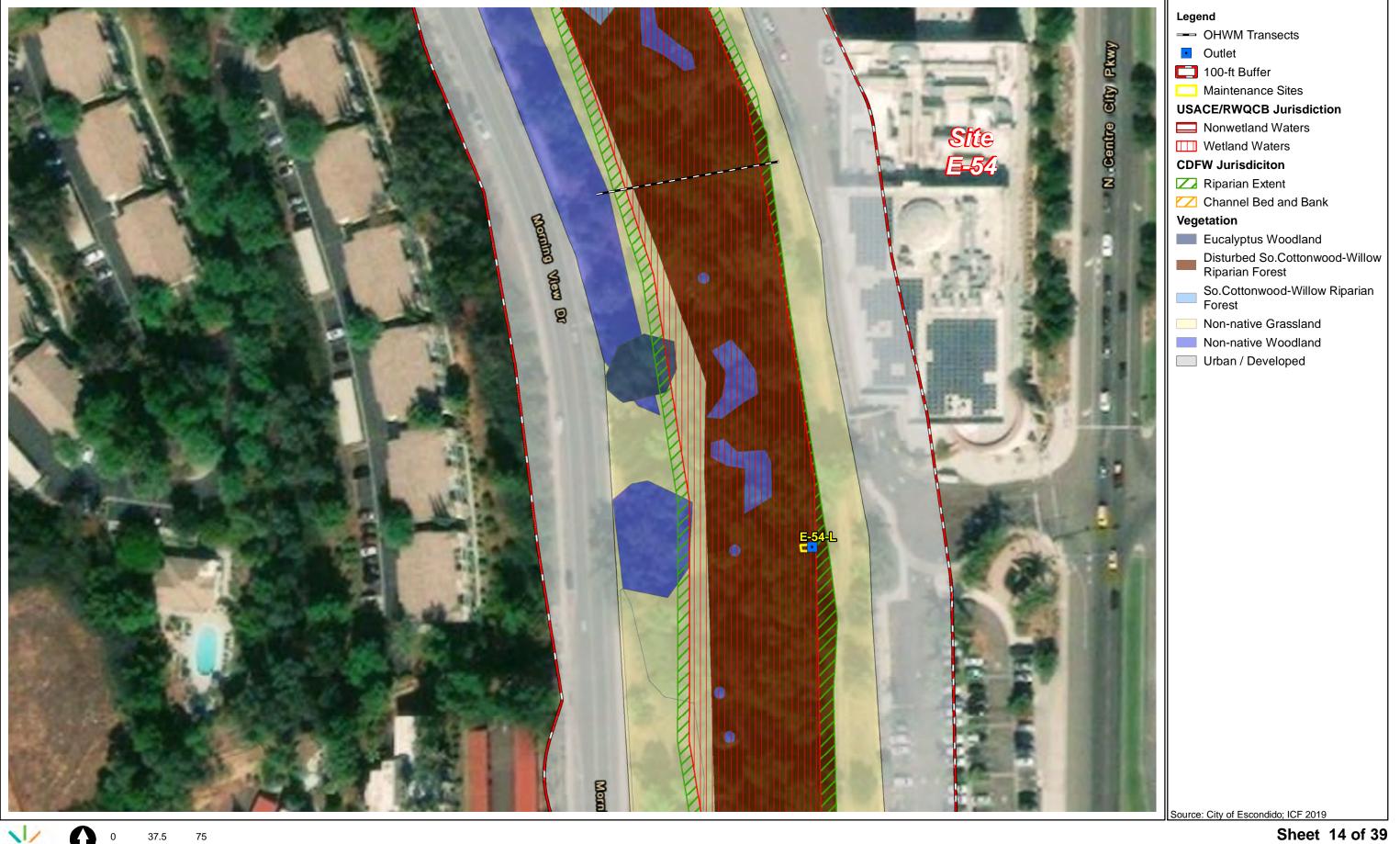
- **Z** Riparian Extent
- Channel Bed and Bank

### Vegetation

- Disturbed So.Cottonwood-Willow Riparian Forest
- So.Cottonwood-Willow Riparian Forest
- Non-native Grassland
- Non-native Woodland
- Disturbed Habitat
- Urban / Developed

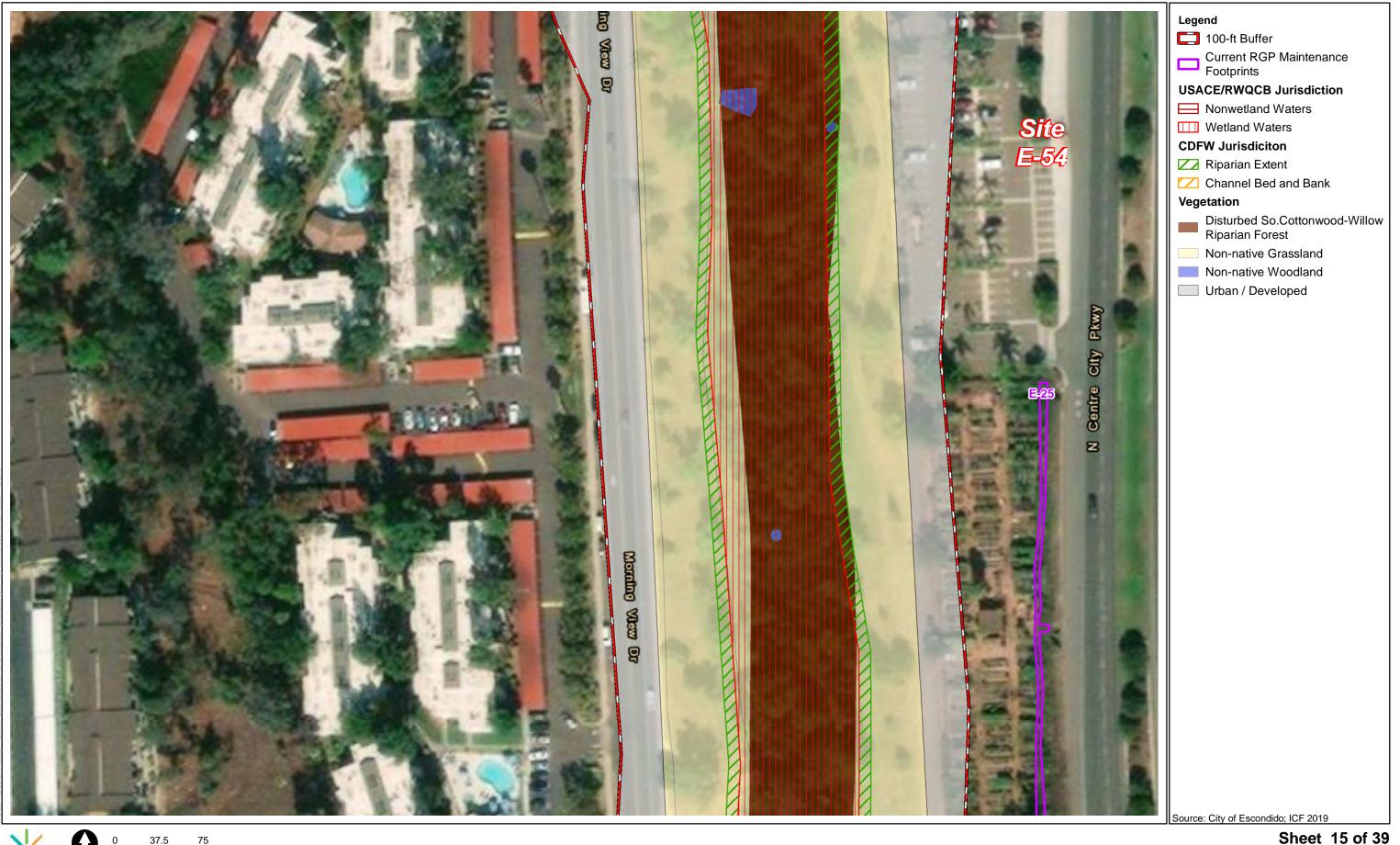
Source: City of Escondido; ICF 2019

Sheet 13 of 39 E-54 Reidy Creek - Morning View City of Escondido Channel Maintenance Project





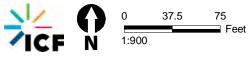
E-54 **Reidy Creek - Morning View** City of Escondido Channel Maintenance Project



# 37.5 75

E-54 **Reidy Creek - Morning View** City of Escondido Channel Maintenance Project





- Wetland Sample Point
- 100-ft Buffer
- Current RGP Maintenance Footprints

# **USACE/RWQCB** Jurisdiction

- Nonwetland Waters
- Wetland Waters

# **CDFW** Jurisdiciton

- **Z** Riparian Extent
- Channel Bed and Bank

# Vegetation

- Disturbed So.Cottonwood-Willow Riparian Forest
- Non-native Grassland
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 16 of 39 E-54 **Reidy Creek - Morning View** City of Escondido Channel Maintenance Project





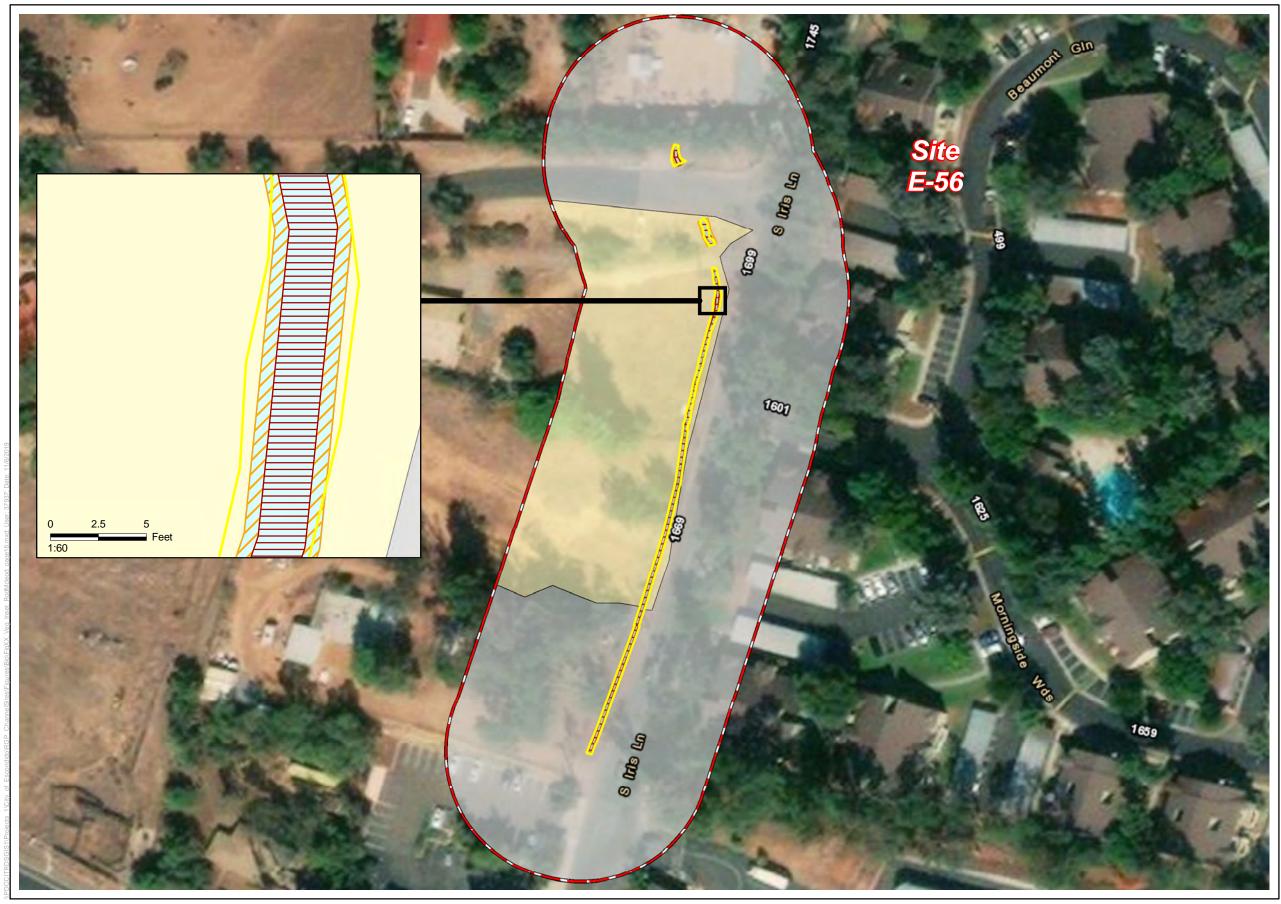
- 🛄 100-ft Buffer
- Maintenance Sites
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters
- **CDFW** Jurisdiciton
- Z Riparian Extent
- Channel Bed and Bank

## Vegetation

- Coast Live Oak Woodland
- So.Cottonwood-Willow Riparian Forest
- Southern Willow Scrub
  - Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 17 of 39 E-55 HARRF City of Escondido Channel Maintenance Project



# 37.5 75

#### Legend

Maintenance Sites

100-ft Buffer

USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW** Jurisdiciton

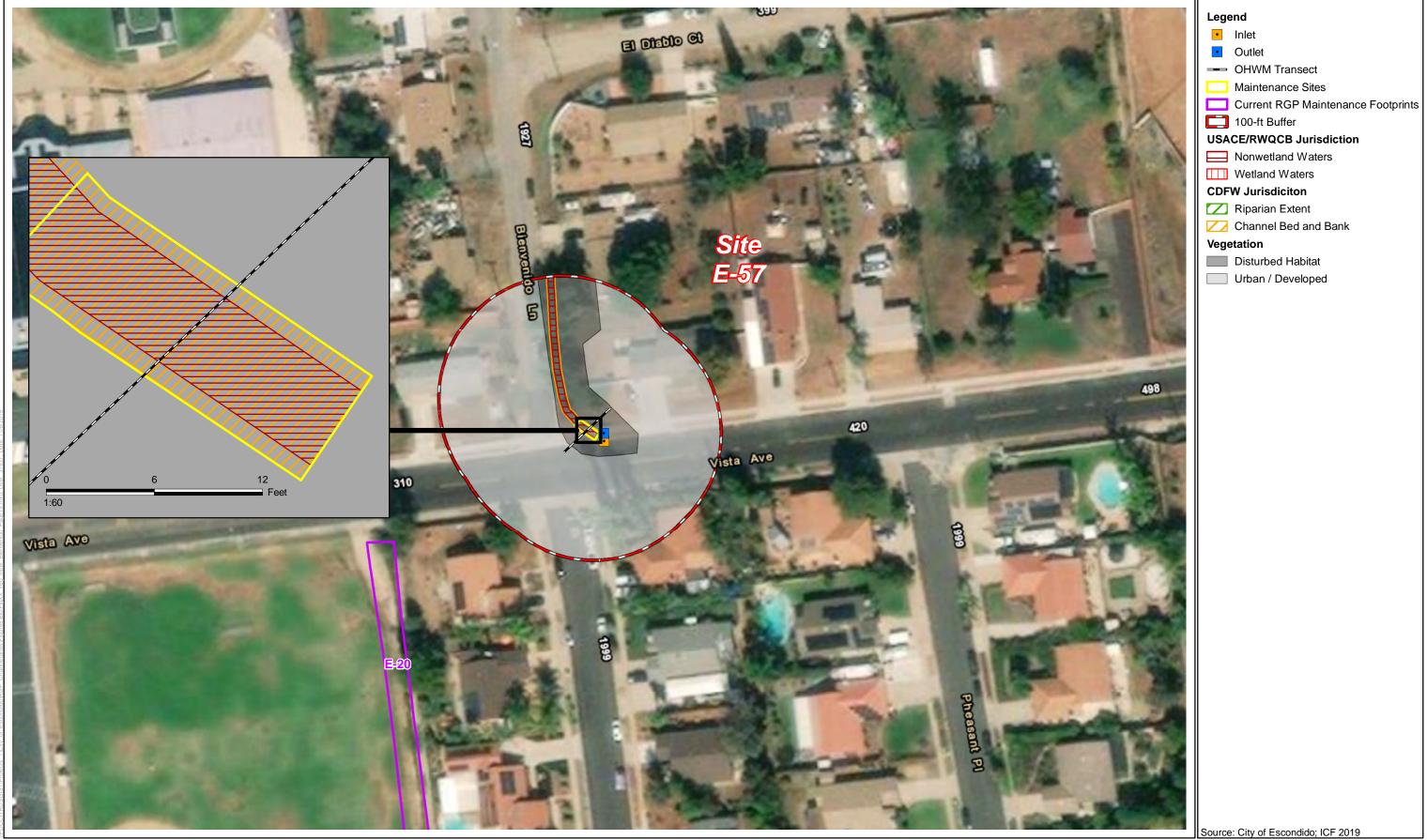
- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
- Non-native Grassland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 18 of 39 E-56 McLeod Park City of Escondido Channel Maintenance Project



#### 37.5 75 0 1:900

Sheet 19 of 39 E-57 **Bienvenido and Vista City of Escondido Channel Maintenance Project** 



Reidy Creek Golf Course City of Escondido Channel Maintenance Project



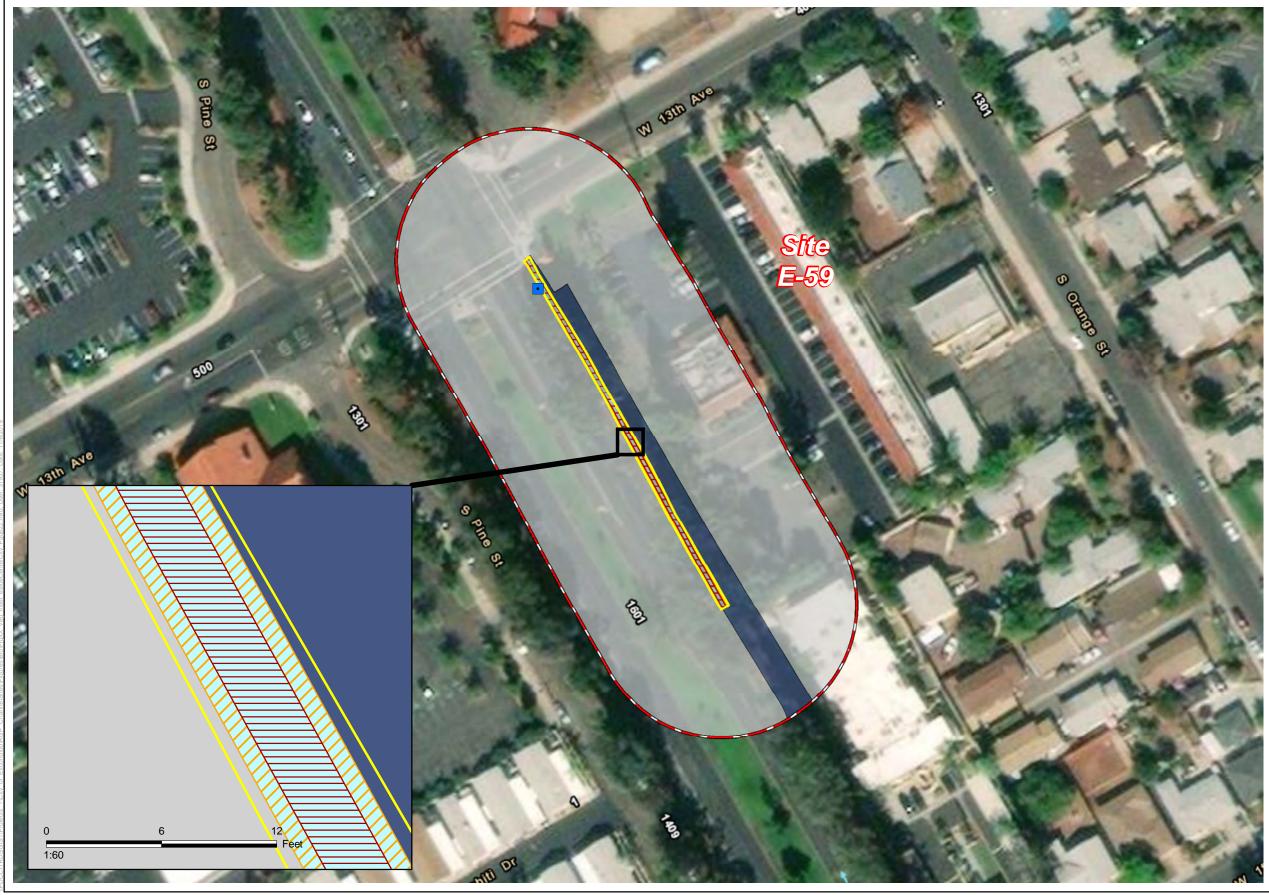


Sheet 20 of 39 E-58 **Reidy Creek Golf Course** City of Escondido Channel Maintenance Project





Sheet 21 of 39 E-58 **Reidy Creek Golf Course City of Escondido Channel Maintenance Project** 



- Outfall
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

## **CDFW Jurisdiciton**

- **Z** Riparian Extent
- Channel Bed and Bank

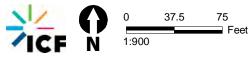
## Vegetation

- Eucalyptus Woodland
- Unvegetated Channel
- Urban / Developed

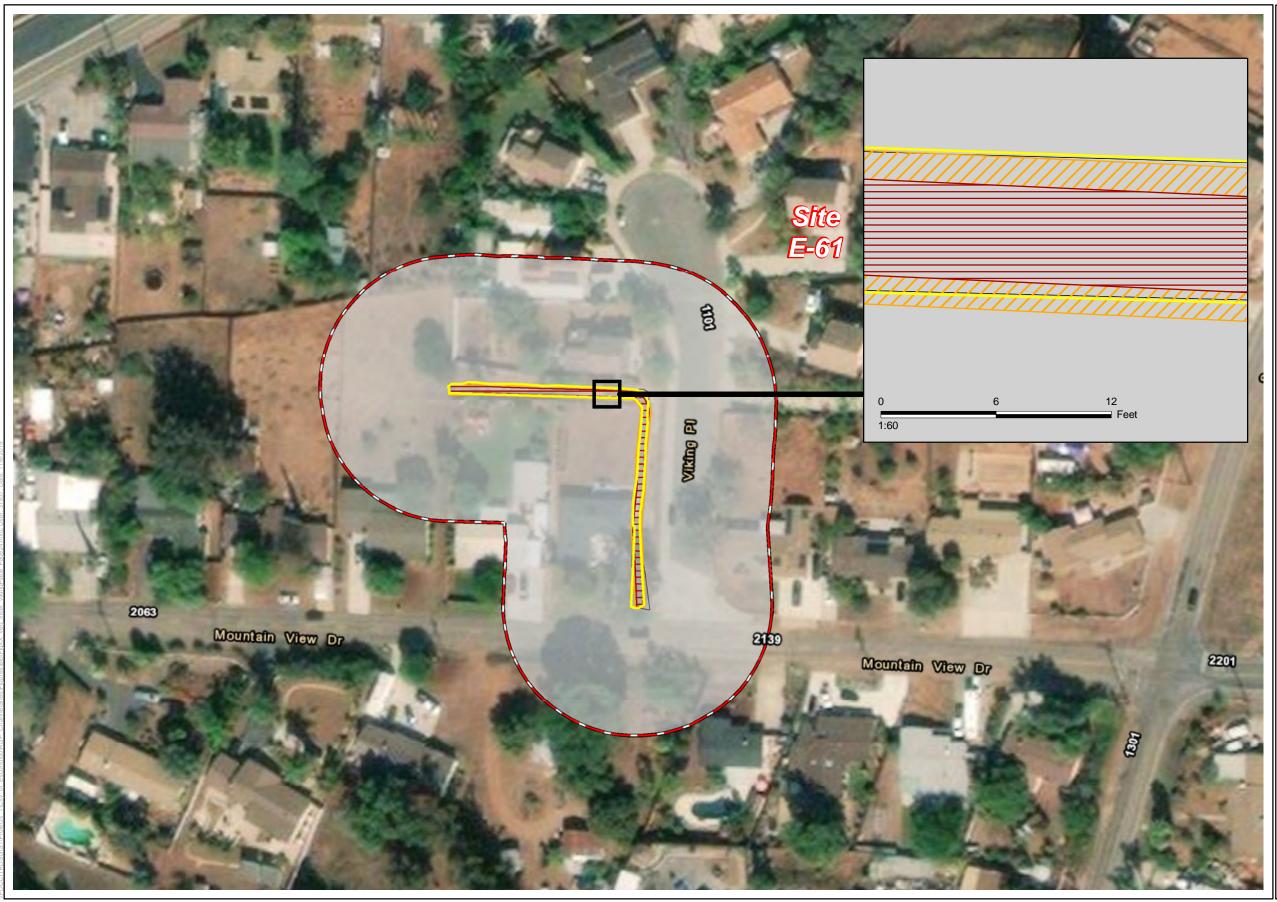
Source: City of Escondido; ICF 2019

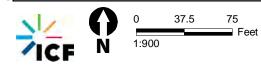
Sheet 22 of 39 E-59 E. Side Center City Pkwy and 13th City of Escondido Channel Maintenance Project





E-60 **Oak Valley Lane** City of Escondido Channel Maintenance Project





Maintenance Sites

100-ft Buffer

USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

**CDFW** Jurisdiciton

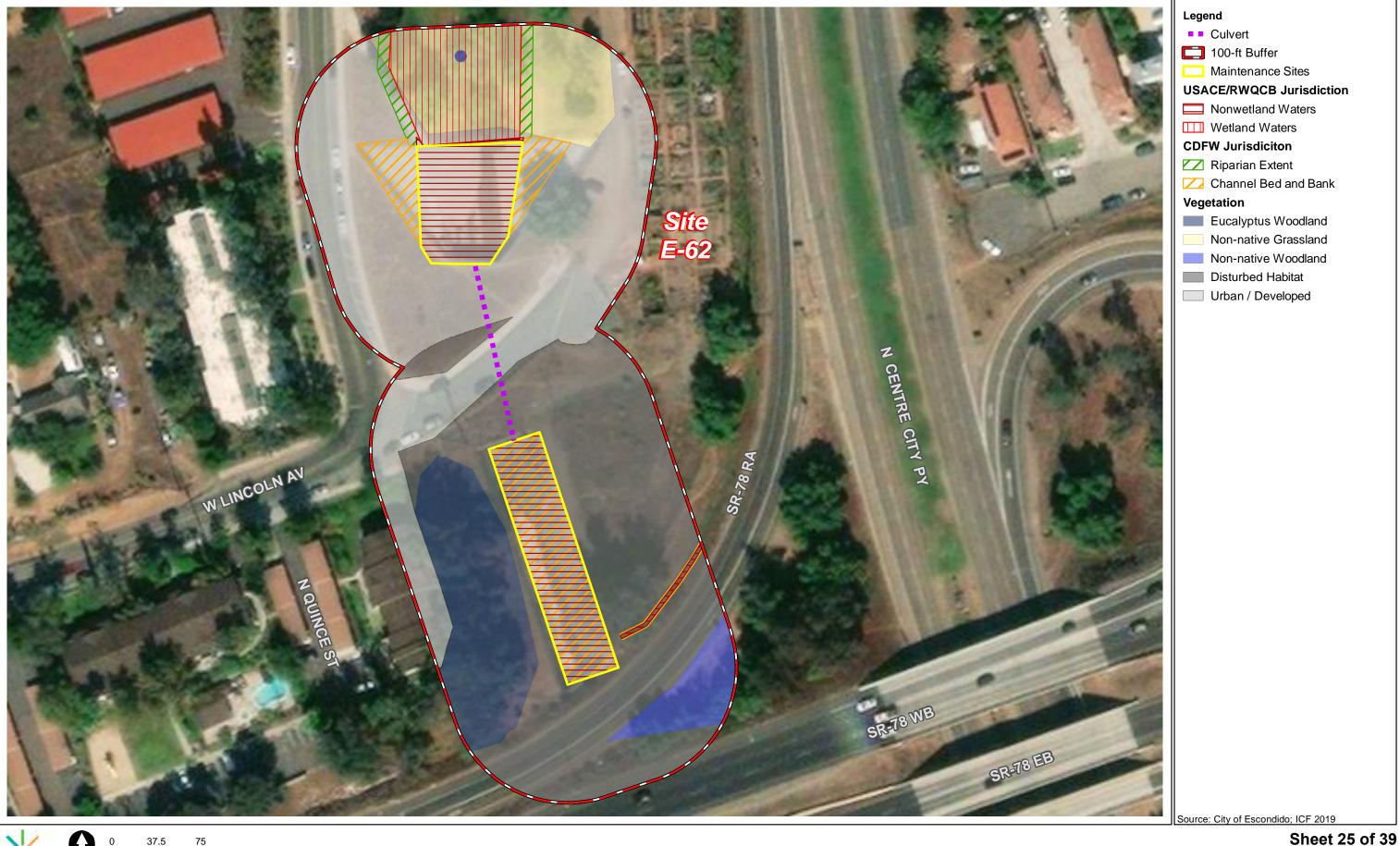
- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

Urban / Developed

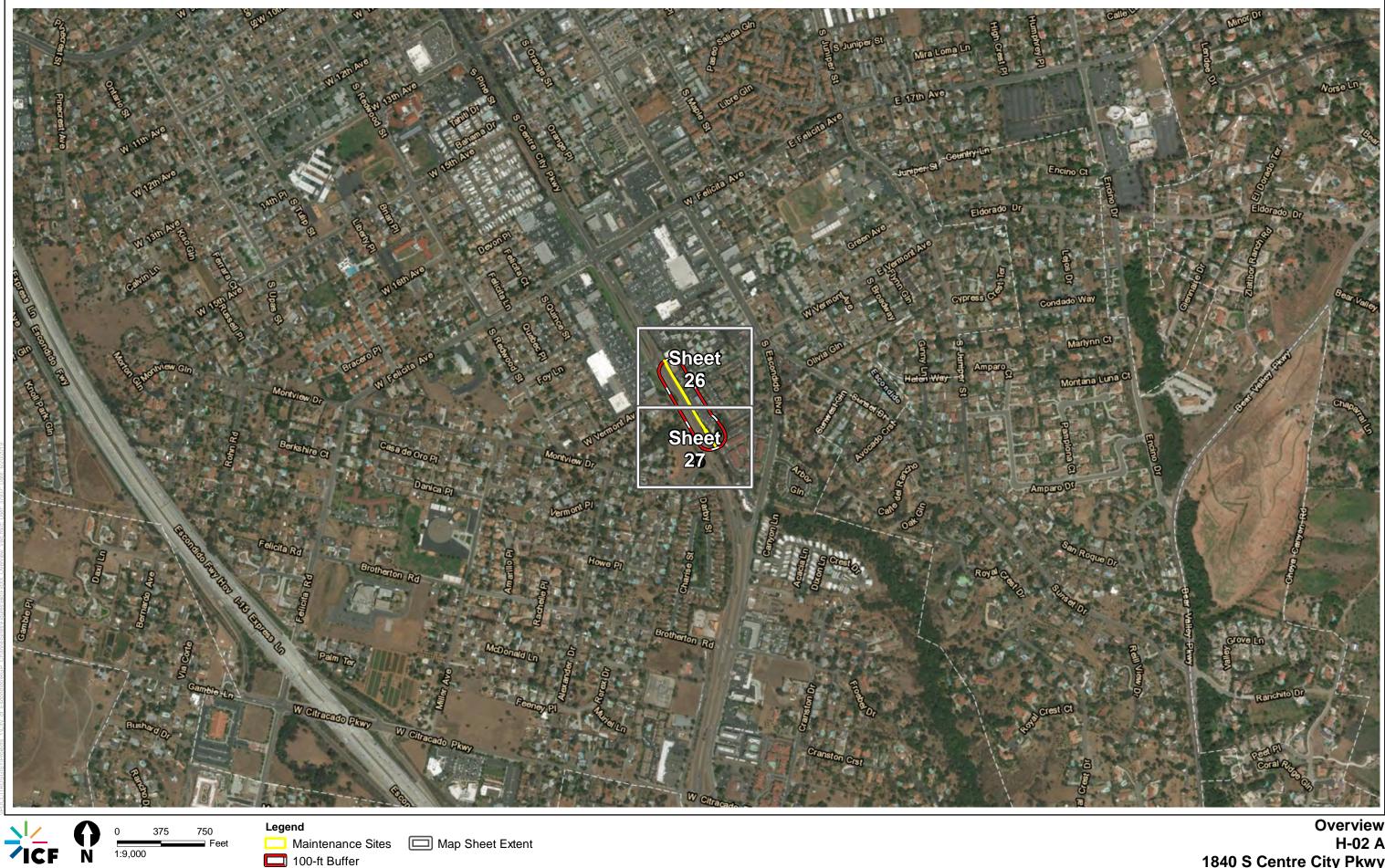
Source: City of Escondido; ICF 2019

Sheet 24 of 39 E-61 Viking Place City of Escondido Channel Maintenance Project





E-62 Reidy Creek - Lincoln Avenue City of Escondido Channel Maintenance Project

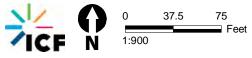


Dift Buffer

1:9,000

Overview H-02 A 1840 S Centre City Pkwy City of Escondido Channel Maintenance Project





Outlet

🔲 100-ft Buffer

Current RGP Maintenance Footprints

## USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

## **CDFW** Jurisdiciton

- Z Riparian Extent
- Channel Bed and Bank

## Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 26 of 39 H-02 A 1840 S Centre City Pkwy City of Escondido Channel Maintenance Project





- Inlet
- Outlet
- 100-ft Buffer
- Current RGP Maintenance Footprints
- Extended Maintenance Site
- USACE/RWQCB Jurisdiction
- Nonwetland Waters
- Wetland Waters

## **CDFW Jurisdiciton**

- Z Riparian Extent
- Z Channel Bed and Bank

## Vegetation

- Unvegetated Channel
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 27 of 39 H-02 A 1840 S Centre City Pkwy City of Escondido Channel Maintenance Project



750 Teet 375 1:9,000

Dift Buffer

Maintenance Sites Map Sheet Extent

Overview H-14 Miller Ave (2) City of Escondido Channel Maintenance Project



# 37.5 75

#### Legend

- Culvert
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

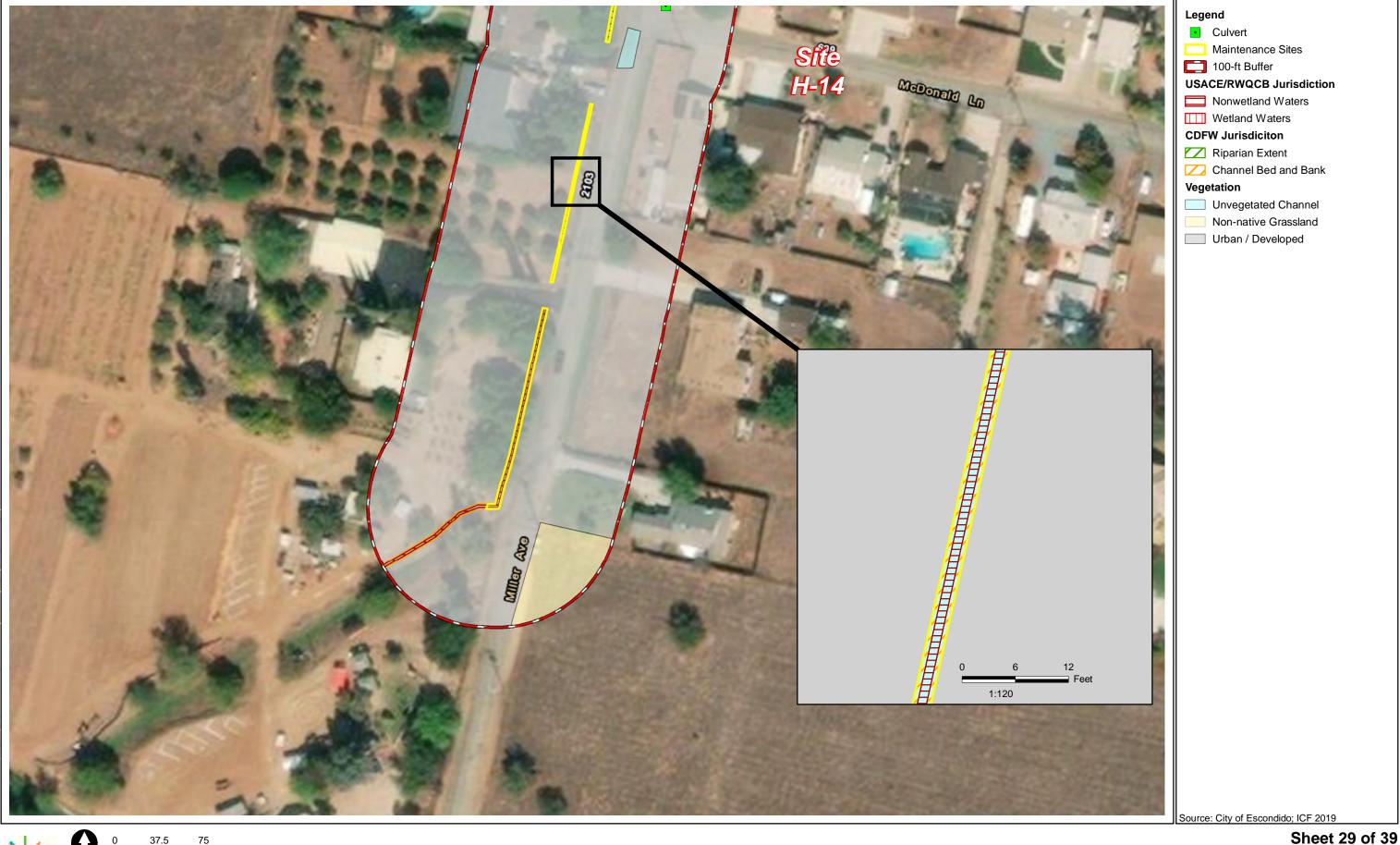
- **Kiparian Extent**
- Channel Bed and Bank

#### Vegetation

- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

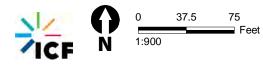
Sheet 28 of 39 H-14 Miller Ave (2) **City of Escondido Channel Maintenance Project** 





H-14 Miller Ave (2) **City of Escondido Channel Maintenance Project** 





- Outlet
- Maintenance Sites
- 100-ft Buffer

#### USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

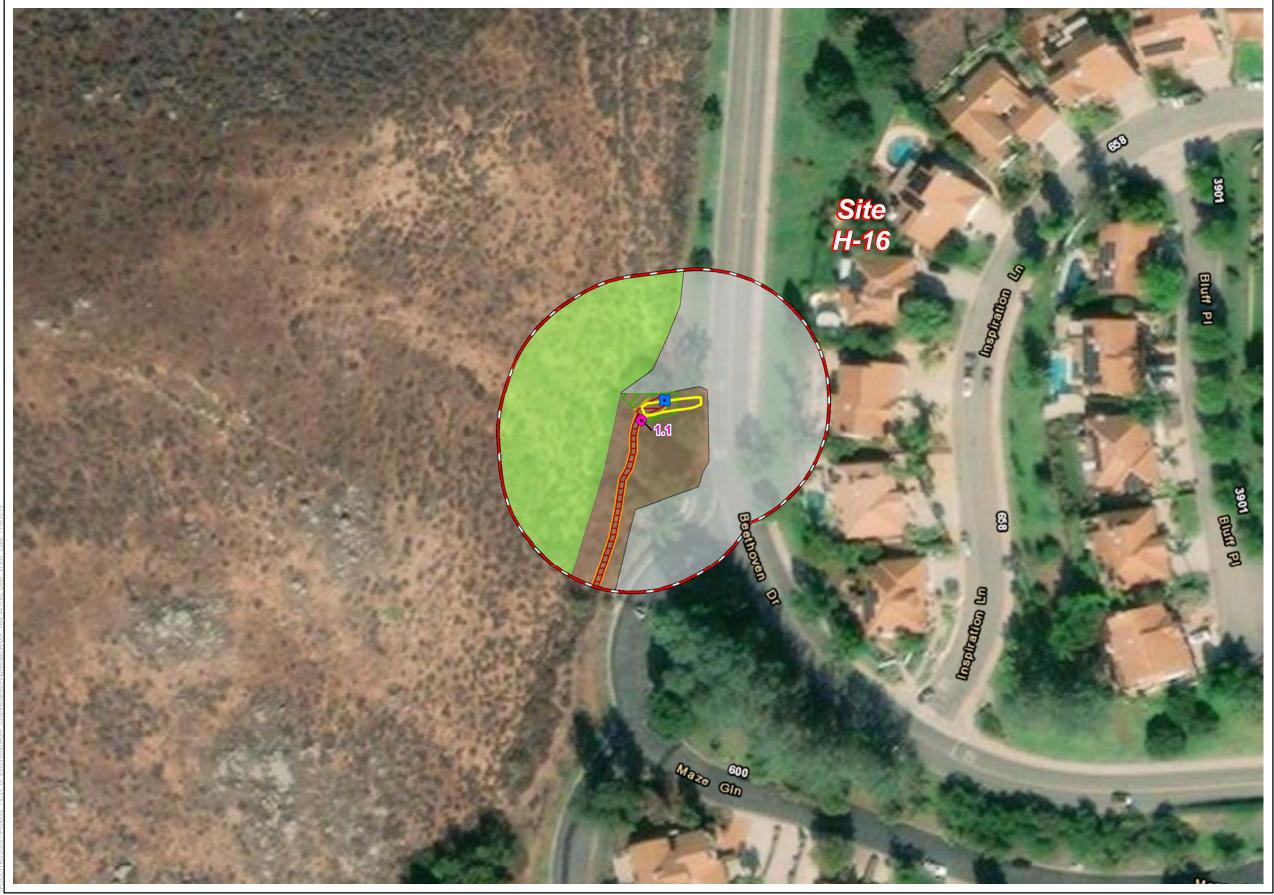
- Z Riparian Extent
- Channel Bed and Bank

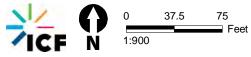
#### Vegetation

- Diegan coastal sage scrub
- Unvegetated Channel
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 30 of 39 H-15 Sierra Linda **City of Escondido Channel Maintenance Project** 





- Wetland Sample Point
- Outlet
- 100-ft Buffer
- Maintenance Sites

## USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW** Jurisdiciton

- Z Riparian Extent
- Channel Bed and Bank

## Vegetation

- Diegan coastal sage scrub
- Southern Riparian Scrub
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 31 of 39 H-16 **Concerto and Beethoven** City of Escondido Channel Maintenance Project





- Wetland Sample Point
- Outlet
- 100-ft Buffer
- Maintenance Sites

## **USACE/RWQCB** Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

## Vegetation

- Emergent Wetland
- Southern Arroyo Willow Riparian Forest
- Non-native Grassland
- Non-native Woodland
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 32 of 39 H-17 **Bear Valley Pkwy** City of Escondido Channel Maintenance Project

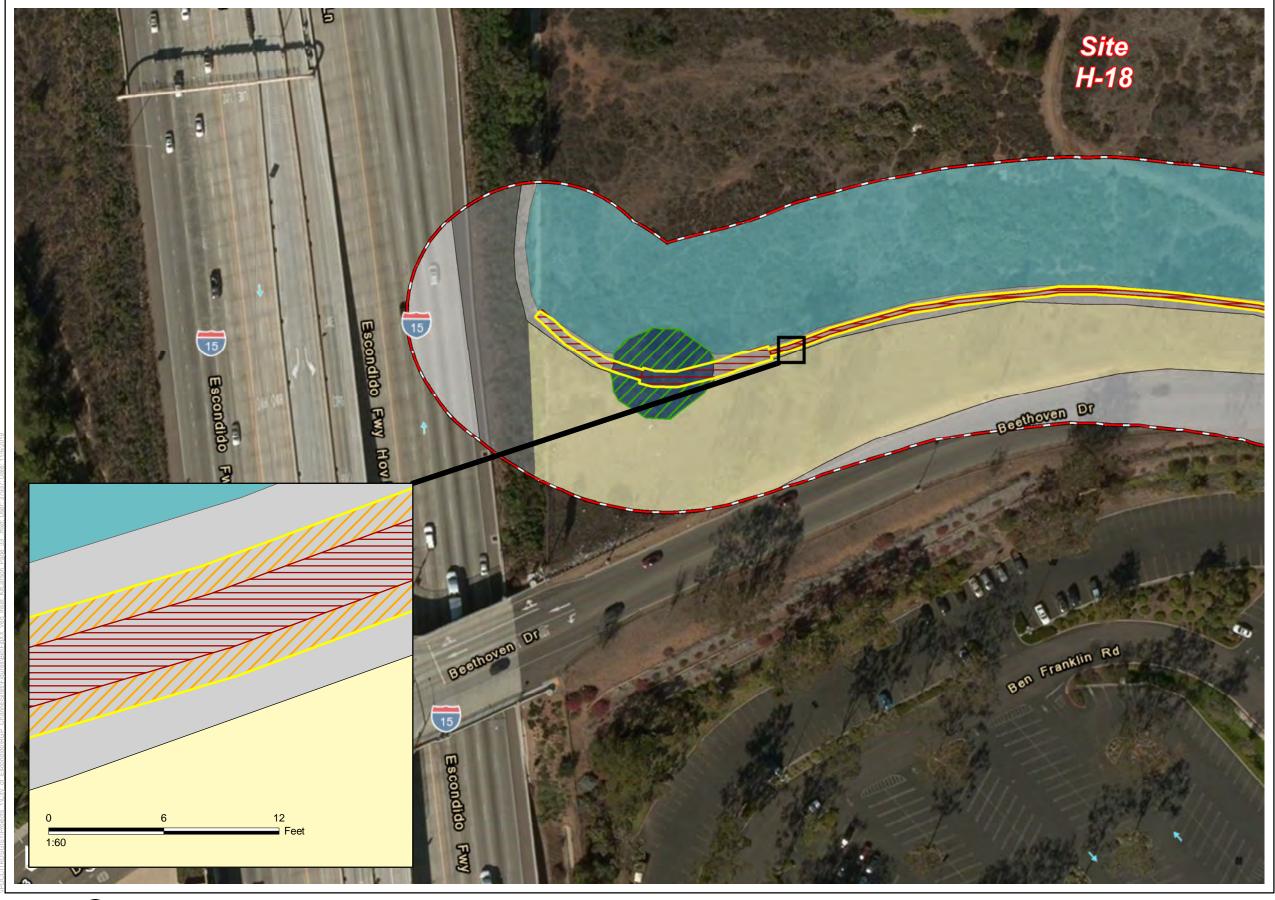




Legend Dift Buffer

Maintenance Sites Map Sheet Extent

Overview H-18 Kit Carson Bike Trail City of Escondido Channel Maintenance Project



#### 37.5 75 ICF 1:900

#### Legend

Maintenance Sites

100-ft Buffer

USACE/RWQCB Jurisdiction

Nonwetland Waters

Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

#### Vegetation

- Southern Willow Scrub
- Diegan Coastal Sage Scrub
  - Non-native Grassland
- Disturbed Habitat
- Urban / Developed

Source: City of Escondido; ICF 2019

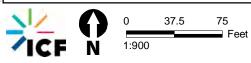
Sheet 33 of 39 H-18 Kit Carson Bike Trail **City of Escondido Channel Maintenance Project** 





H-18 Kit Carson Bike Trail **City of Escondido Channel Maintenance Project** 





Inlet

- Outlet
- 100-ft Buffer

USACE/RWQCB Jurisdiction

- Nonwetland Waters
- Wetland Waters

#### **CDFW Jurisdiciton**

- Z Riparian Extent
- Channel Bed and Bank

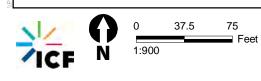
## Vegetation

- Coast Live Oak Woodland
- Southern Willow Scrub
- Disturbed Habitat
- Urban / Developed

Source: City of Escondido; ICF 2019

Sheet 35 of 39 H-19 **Encino and Amparo City of Escondido Channel Maintenance Project** 



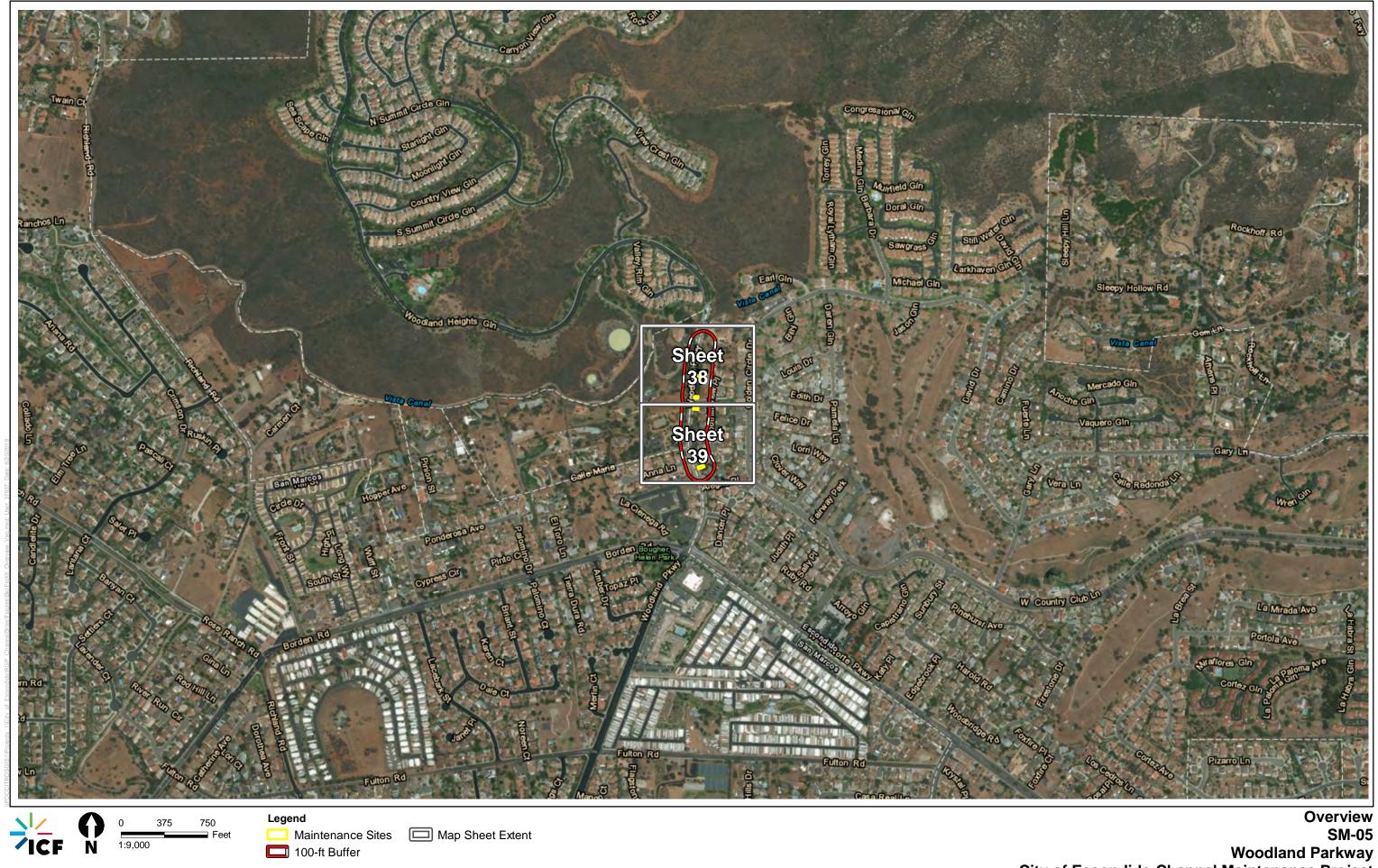


H-20 Sunset and Bear Valley **City of Escondido Channel Maintenance Project** 





Sheet 37 of 39 H-21 Via Rancho Pkwy and Sunset Drive City of Escondido Channel Maintenance Project

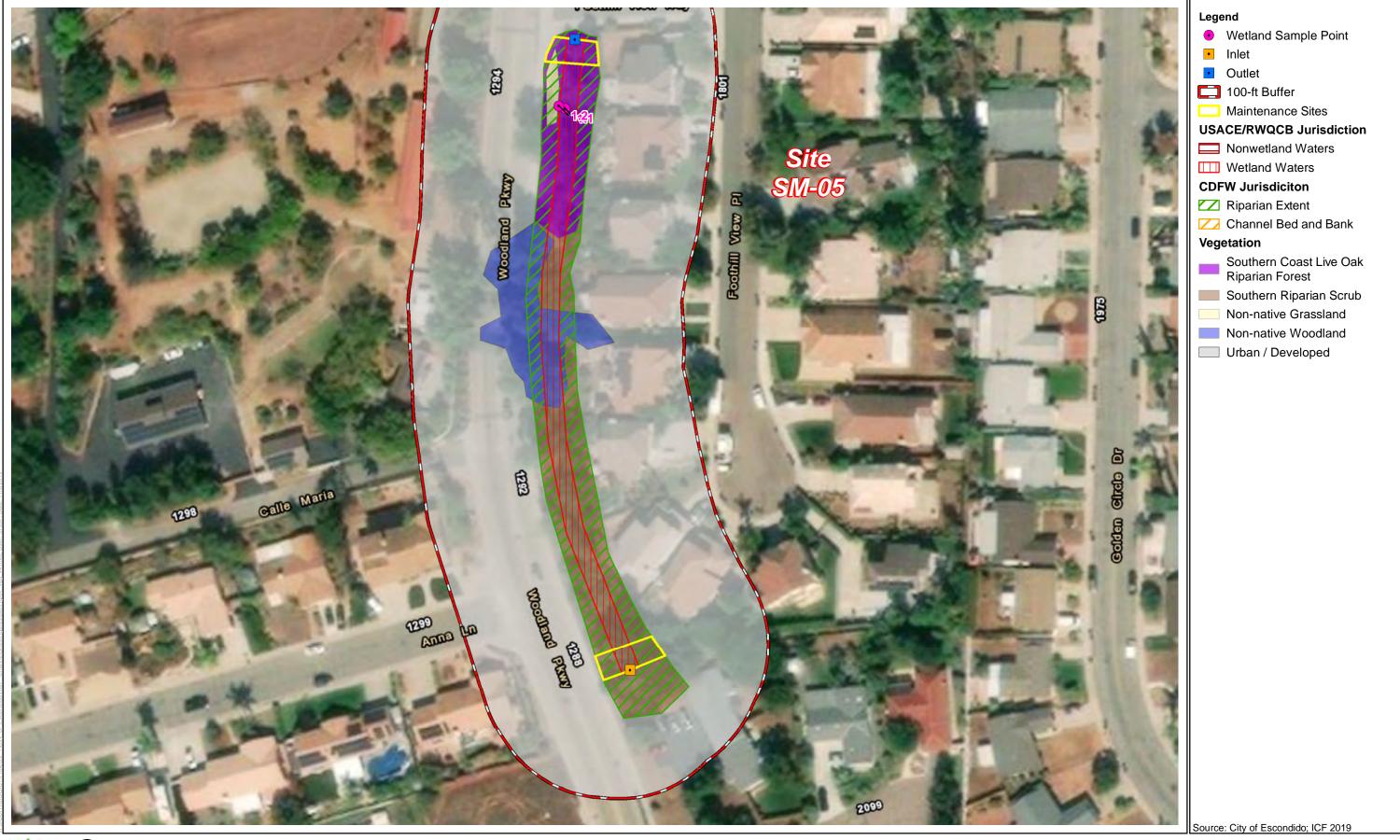


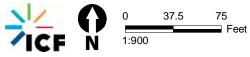
Woodland Parkway City of Escondido Channel Maintenance Project





Sheet 38 of 39 SM-05 **Woodland Parkway City of Escondido Channel Maintenance Project** 





Sheet 39 of 39 SM-05 **Woodland Parkway City of Escondido Channel Maintenance Project** 

## Attachment 2 Facility Location Site Forms

## City of Escondido Channel Maintenance RGP – Facility Summary

		PART	I. MAINTENANCE	FACILITY INFO	ORMATION				
Facility Name	W 4 <sup>th</sup> Ave			Facility ID	E-48				
Location	West 4 <sup>th</sup> Aven	ue				1			
Latitude <sup>1</sup>	33,115975	Longitude <sup>1</sup>	-117.0856664	Maintenance	Frequency (y	ears)	Annuall	/	
Maintenance Fa		Channel		Lining Type	Earthen	/		/	
Maintenance Fa			d sediment and wee		Lattien				
Proposed Mainte Activities	enance Eq	uipment will be st	aged on the street a cavation. No draggir	nd backhoe or e					
Will work occur	when water is i	n the channel?	Y 🖾 N		e <b>s</b> , will dewate rsion be need		ter Y 🛛 N		
			PART II. SURVE	Y INFORMATIO	ON				
Surveyors		antes, William Ko	hn		Date of Su	ırvey	2/26/2019		
Was water in the channel at the time of the survey?YNHydrology Type2PIENO									
Nearest Named	Nearest Named Waterbody Escondido Creek NWI Index Not Classified								
NRCS Soils	Placentia sa	ndy loam, 2 to 9 p	ercent slopes						
Section II.a. Su	mmary of USA	CE/RWQCB/CDI	W Waters of the U	.S. and State V	Vithin the Ma	intenance	Facility		
USACE 404/RWQCB 401 Jurisdiction Y X N USACE 404 Regulated Activity Y N Only Temporary divers				diversion					
USACE Nonwet Waters Present		N 🗆 '	JSACE Wetland Waters Present	Y 🗌 N	Datap X Taker	oint(s) 1	Y 🗌 N		
Associated Data	sheet(s)								
Summary of Aquatic	Type of Jurisd	ictional Water	Habitat Description. <sup>3</sup>				Acres Delineated within Maintenance Footprint⁴ Impact Tier⁵		
Habitats	Nonwetland	Waters	/aters U/E				0.032		
(Waters of the U.S. and State)			TOTAL				0.032		
Section II.b. Summary of CDFW Waters of the State Only Within the Maintenance Facility									
CDFW 1600 Jurisdiction Beyo USACE Waters	Jurisdiction Beyond			Υ⊠	N 🗌				
Summary of Aquatic			Habitat	bitat Description <sup>3</sup>			Acres Delineated within Maintenance Footprint <sup>4</sup>		
Habitats Channel E		k		U/E			0.040	П	
(Waters of the State Only)	Vaters of the TOTAL 0.040								
	mmary of Veg	etation Commun	ities and Cover Typ	oes Within and	Adjacent to	the Mainte	enance Facility		
			cres within Study						
Vegetation Co									
Cover Types		Maintenance							
		Footprint 100-Foot Buffer		Total	Total Domin		inant/Significant Species		
Riparian and We Unvegetated (		0.040	0.040 0.010 0.050 Brod			Bromus diandrus, Bromus madritensis			
-			0.010 0.050 Bromus diar						
Subtotal Riparian and Wetland     0.040     0.010     0.050       Other Land Cover Types									
Urban/Develop		0.006	2.427	2.433	N/A				
	total Other Land Cover Types 0.006 2.427 2.433								
Subiolal Other L	GRAND TOTAL <sup>6</sup>								

	al Status Species Within the Vicinity of the Maintenance Facility <sup>7</sup>					
Special status species observed during 2019 field surveys within the Facility Buffer	None					
Threatened/Endangered species historically						
known to occur within the Facility Buffer	N/A					
Threatened/Endangered species having						
Designated Critical Habitat within the Facility	None					
Buffer						
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility	Tricolored blackbird (Agelaius tricolor) (, CE)					
Buffer	Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC)					
	Least Bell's vireo (Vireo bellii pusillus) (FE, SE)					
	Swainson's hawk (Buteo swainsoni) (, ST)					
	Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FT, SE) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)					
	California black fail (Lateralius jamacensis coturniculus) (, CTTTT)					
Other non-listed special status species						
historically known to occur within the Facility	None					
Buffer						
Other non-listed special status species	Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1)					
historically known to occur within 1.0 mile of	Southern California legless lizard (Anniella stebbinsi) (SSC)					
the Facility Buffer	Orange-throated whiptail (Aspodpscelis hyperythra) (SSC)					
	Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC)					
	Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL)					
	Pallid bat ( <i>Antrozous pallidus</i> ) (SSC)					
	Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC)					
	Townsend's big-eared bat (Corynorhinus townsendii) (SSC)					
	Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC)					
	Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC)					
	Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC) American badger ( <i>Taxidea taxus</i> ) (SSC)					
Are species surveys recommended?	Y D N M If Yes, for what species?					
Will work occur in the breeding season (Feb-Au	ugust)? Y 🛛 N 🗌					
	PART III. ADDITIONAL NOTES/COMMENTS					
Easture is a nonwetland water that supported a	standing water at the time of surveys. The channel is characterized as an unvegetated					
	sees along the channel banks. Vegetation present consisted of Avena sp., Bromus					
	m, and <i>hordeum murinum</i> . Sediment deposition and shelving was observed within the					
channel.						
Footnotes:						
<ol> <li>Coordinates are based on the centroid of the facility.</li> <li>Underland Timese D. Desensiel I. Intermittent F. Enhancesel</li> </ol>						
<ol> <li>Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral</li> <li>Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earl</li> </ol>						
<ol> <li>Habitat Descriptions: V = Vegetated, 0 = Onvegetated / E = Ean</li> <li>Impact areas are subject to change based on agency recommer</li> </ol>						
5. The impact tier determines thresholds for O&M activities unde	er this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is					
included in the permit package.						
<ol> <li>Totals may not add up due to rounding.</li> <li>Sources: California Natural Diversity Database (CNDDB) (CDEW)</li> </ol>	W 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).					
. Sources, camornia natural Diversity Database (CNDDB) (CDFV	אי 2017 מות ס.ט. רואו מות איותוורב כווגנמו וומטונמר שמנמ (סטו איט 2012).					



## City of Escondido Channel Maintenance RGP – Facility Summary

E-49 -	W	5th	and	Pine
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		PAF	RT I. MAINTENANCE	FACILIT	y info	RMATIC	DN			
Facility Name	W 5 <sup>th</sup> and Pine			Facility	sility ID E-49					
Location	West 5 <sup>th</sup> A	venue								
Latitude <sup>1</sup>	33.115280	Longitude <sup>1</sup>	-117.084671	Mainte	nance	Frequen	icv (vea	rs)	Annually	
Maintenance Fac		Channel			Maintenance Frequency (years)         Lining Type       Earthen			- /	,	
			ated sediment and we			Lattie	1			
Proposed Mainter Activities	nance E	Equipment will be	staged on the street a excavation. No draggi	and backh	oe or e					
Will work occur w	hen water is	in the channel?	Y     N     If Yes, will dewatering water diversion be needed			•	Y 🖾 N			
	_		PART II. SURVE	Y INFOR	MATIO	N				
Surveyors	urveyors Lanika Cervantes, William K			hn Date of Surve			ey 2/26/2019			
Was water in the channel at the time of the survey?			Y 🛛 N	🗌 Ну	drology	y Type <sup>2</sup>	Р		🗆 E 🛛 O	
Nearest Named Waterbody Escondido Creek NWI Index Not cla				classifie	d					
NRCS Soils         Placentia sandy loam, 2 to 9 percent slopes										
Section II.a. Sun	nmary of US	ACE/RWQCB/CI	DFW Waters of the U	I.S. and S	State W	ithin the	e Maint	enance Fa	acility	
USACE 404/RWO										$\square$
03ACE 404/RWC		ISUICIION		Y N D USACE 404 Regulated A			ated Activity Y N N Only Temporary diversion			
							structu			
USACE Nonwetla Waters Present	and Y	🛛 N 🗆	USACE Wetland Waters	Vetland Waters Y I N X Taken				nt(s) Y 🗌 N 🖾		
Associated Datas	heet(s)		Present							
Summary of Aquatic	Type of Juris	dictional Water	Habitat Description. <sup>3</sup>			Acres Delineated within Maintenance Footprint <sup>4</sup>		Impact Tier⁵		
Habitats	Nonwetland	d Waters	/aters			U/E			0.002	
(Waters of the U.S. and State)			TOTAL				0.002			
,	nmary of CL	OFW Waters of th	e State Only Within	the Main	tenanc	e Facilit	tv			
CDFW 1600 Juris	-									
Beyond USACE V		Y 🛛 N 🗆	CDFW Regulate				Y			
Summary of Aquatic     Type of Jurisdictional Water       Habitats     Channel Bank		Habitat Description. <sup>3</sup>			Acres Delineated within Maintenance Footprint <sup>4</sup>		Impact Tier⁵			
		ank	nk			U/E			0.002	
(Waters of the			TOTAL 0.002							
• •	nmarv of Ve	aetation Comm	inities and Cover Ty	pes With	in and	Adiacer	nt to the	e Mainten	ance Facility	
			Acres within Study							
Vegetation Cor		nd								
Cover	Types	Maintenar		_						_
Riparian and Wor	tland	Footprin	nt Buffer	Τα	otal		Do	minant/S	ignificant Spec	ies
Riparian and WetlandUnvegetated Channel0.002		<0.001	0.0	002	2 Erodium sp., schismus sp.					
Subtotal Riparia			<0.001	-	002				-1	
Other Land Cove										
Urban/Develope		0.001	0.834		835	N/A				
Subtotal Other Lar			0.834	0.	835					
G	RAND TOT	AL <sup>6</sup> 0.003	0.834	0.	838					

Special status species observed during 2019					
ield surveys within the Facility Buffer	None				
Threatened/Endangered species historically	N/A				
nown to occur within the Facility Buffer					
Designated Critical Habitat within the Facility Buffer	None				
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST) Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FT, SE) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)				
Dther non-listed special status species historically known to occur within the Facility Buffer	None				
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California legless lizard ( <i>Anniella stebbinsi</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC) Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL) Pallid bat ( <i>Antrozous pallidus</i> ) (SSC) Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC) Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC) Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC) Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC) American badger ( <i>Taxidea taxus</i> ) (SSC)				
Are species surveys recommended?	Y D N A If Yes, for what species?				
Feature is a nonwetland water that supported s channel supporting non-native patches of grass	PART III. ADDITIONAL NOTES/COMMENTS standing water at the time of surveys. The channel is characterized as an unvegetated ses along the channel banks. Short channel that is only daylight for approximately 20 feet resent consisted of <i>Erodium sp., schismus sp.,</i> and <i>cynodon dactylon.</i> Sediment				



				FAN									TION							
Facility Name	W 5 <sup>th</sup> Ave				Facility ID E-50															
Location	West 5th	Avenu	ie																	
Latitude <sup>1</sup>	33.11492	8	Longit	ude <sup>1</sup>	-11	7.085	5331		Ma	ainten	ance	Frequ	ency (y	/ears	s)		Α	nnuall	у	
Maintenance Fa	acility Type		Chanr		1					ning T		Earth			,				-	
	somy type		move ad		ted s	edim	ent a	and we			•••	Lord								
Proposed Maint Activities	enance	Eq	uipment annel foi	will be s	stage	d on	the s	street	and ba	ackho	e or e ment	along	banks	and	no eq	uipm				
Will work occur	when wate	er is ir	n the cha	innel?		Y     N     If Yes, will dewatering or water diversion be needed?     Y     N     Image: Second constraints       PART II. SURVEY INFORMATION														
						PART	r II. S	SURVI	EY INF	ORM	ATIO	N					_			
Surveyors	_anika Cei	vante	s, Willia	m Kohn								Dat	te of Su	urvey	y		2/26	/2019		
Was water in th survey?	the		Y	$\boxtimes$	Ν		Hyd	rology	/ Туре	<sup>2</sup> F	<b>&gt;</b> [			E	$\boxtimes$	0				
Nearest Named	Waterboo	y E	Escondic	lo Creek	<					NWI	Index	x No	ot class	ified						
NRCS Soils P	lacentia s	andy l	oam, 2 t	o 9 perc	cent s	lope	S													
Section II.a. Su	ımmary <u>o</u>	USA	CE/RW	QCB/CL	DFW	Wate	ers o	of the	U.S. al	nd <u>Sta</u>	ate W	ithin t	the <u>Ma</u>	inte	nanc <u>e</u>	Faci	lity			
USACE 404/RWQCB 401 Jurisdiction					Y										Y Onl	□ y Tem		⊠ / diversio egulated	on	
USACE Nonwe Waters Present		Y	N		We	USACE Datapo Wetland Waters Y I N X Taken Present					point(s) n Y □ N ⊠									
Associated Data	asheet(s)											·								
Summary of	Type of	Jurisd	ictional W	ater				Hat	pitat Des	scriptic	on <sup>3</sup>						ted with Footprii		Impact 1	Tier⁵
Summary of Aquatic Habitat (Waters of the	s Type of Nonwe		ictional W Waters	ater				Hat	bitat Des U/	•	on <sup>3</sup>						Footprii		Impact 1	Tier⁵
Summary of Aquatic Habitat (Waters of the U.S. and State)	s Type of Nonwe	etland	Waters						U/	E			TOTAL			nance	Footprii 1		•	Tier⁵
Summary of Aquatic Habitate (Waters of the U.S. and State) Section II.b. St	s Type of Nonwe	etland	Waters		e Sta	ate O	nly		U/	E		e Faci	-			nance 0.01	Footprii 1		•	Tier⁵
Summary of Aquatic Habitat (Waters of the U.S. and State)	s Type of Nonwe	etland	Waters					Withir	U/	E Nainte		e Faci	-			nance 0.01	Footprii 1		•	Tier⁵
Summary of Aquatic Habitati (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of	s Type of Nonwo Immary o rond	etland	Waters	ers of th N □				<i>Withir</i> egulat	U/ n the N	E <i>Mainte</i> ivity	enanc	e Faci	-	Y	Mainter	nance 0.01 0.01 N N	Footprii 1	hin	•	
Summary of Aquatic Habitati (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitati (Waters of the	s Type of Nonwo Immary o rond	etland f CDF Jurisd	Waters	ers of th N □				<i>Withir</i> egulat	U/ In the M ed Act	E <i>Nainte</i> ivity scriptio	enanc	e Faci	ility	Y	Mainter	N Delinea 0.01	Footprin 1 1 1 Steed wite Footprin 9	hin		
Summary of Aquatic Habitate (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitate (Waters of the State Only)	s Type of Nonwa vond s Type of Chann	etland f CDF Jurisd el Bai	Waters	ers of th N □ /ater		CDF'	WR	Withir egulat Ha	U/ a the M ed Act bitat Dea	E <i>lainte</i> ivity scriptio	enanc on <sup>3</sup>		ility	Y	Mainter Acres I Mainte	0.01 0.01 0.01 N Delinea nance 0.01 0.07	Footprin 1 1 1 Steed wite Footprin 9	hin int⁴	II	
Summary of Aquatic Habitati (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitati (Waters of the	s Type of Nonwa vond s Type of Chann	etland f CDF Jurisd el Bai	Waters	ers of th N □ /ater	I	CDF' s and	W R	Within egulat Hai	U/ ed Act bitat De U/E	E <i>Nainte</i> ivity scriptio	enanc on <sup>3</sup>		ility	Y	Mainter Acres I Mainte	0.01 0.01 0.01 N Delinea nance 0.01 0.07	Footprin 1 1 1 Steed wite Footprin 9	hin int⁴	II	
Summary of Aquatic Habitation (Waters of the U.S. and State) Section II.b. Sum CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitation (Waters of the State Only) Section II.c. Sum Vegetation Composition	s Type of Nonwo rond s Type of Chann Ummary o	etland f CDF Jurisd el Bai	Waters W Wate Y	ers of th N	initie Acre	CDF s and es wi	W R	Within egulat Hai ver Tj Study	U/ a the M ed Act bitat Dea	E <i>Nainte</i> ivity scriptio	enanc on <sup>3</sup>		ility	Y	Mainter Acres I Mainte	0.01 0.01 0.01 N Delinea nance 0.01 0.07	Footprin 1 1 1 Steed wite Footprin 9	hin int⁴	II	
Summary of Aquatic Habitat (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitat (Waters of the State Only) Section II.c. St Vegetation Ca	s Type of Nonwa rond S Type of Chanr ummary o communitie r Types	etland f CDF Jurisd el Bai	Waters W Wate Y  ictional W nk etation d  Ma	ers of th N □ /ater	Initie Acre	CDF s and es wi	W R	Within egulat Hai over Tj Study oot	U/ ed Act bitat De U/E	E <i>Nainte</i> ivity scriptio	on <sup>3</sup>		TOTAL cent to	Y Y the	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Delinea nance 0.01 0.01 enan	Footprin 1 1 1 Steed wite Footprin 9	hin int <sup>4</sup>	Impact	
Summary of Aquatic Habitati (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitat (Waters of the State Only) Section II.c. Su Vegetation Co Cove Riparian and W	s Type of Nonwo rond s Type of Chanr Ummary o ommunition r Types	etland f CDF Jurisd el Bai	Waters W Wate Y  ictional W nk etation d  Ma	ers of th N Vater Commu intenan ootprin	Initie Acre	CDF s and es wi	d Co ithin 00-F Buff	Withir egulat Hal <u>over Tj</u> <u>Study</u> oot	U/ ed Act bitat De U/E	E ivity scriptic Within 6 Tot	on <sup>3</sup>	Adjac	ility TOTAL cent to	Y The Don	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Deline: 0.01 0.02 enan	Footprin 1 1 1 ated wit Footpri 9 19 ce Fac hificar	hin int⁴	II Impact II Cies	Tier <sup>5</sup>
Summary of Aquatic Habitation (Waters of the U.S. and State) Section II.b. Sum CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitation (Waters of the State Only) Section II.c. Sum Vegetation Concerning Riparian and Withows	s Type of Nonwa vond s Type of Chanr ummary o ommunition r Types etland Channel	etland f CDF Jurisd el Bai f Vege	Waters Waters Waters Waters V Q ictional W nk etation G Ma F	ers of th N	Initie Acre	CDF s and es wi	d Co ithin 00-F Buff 0.00	Within egulat Hai <u>over Tj</u> Study oot fer	U/ ed Act bitat De U/E	E Aainte ivity scriptic Within 6 Tot 0.02	enanc on <sup>3</sup>	Adjac	ility TOTAL cent to	Y The Don	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Deline: 0.01 0.02 enan	Footprin 1 1 1 ated wit Footpri 9 19 ce Fac hificar	hin int⁴	Impact	Tier <sup>5</sup>
Summary of Aquatic Habitate (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitate (Waters of the State Only) Section II.c. St Vegetation Co Cove Riparian and W Unvegetated ( Subtotal Ripar	s Type of Nonwa vond s Type of Chann Ummary o Ommunitie r Types fetland Channel channel	etland f CDF Jurisd el Bai f Vege	Waters Waters Waters Waters V Q ictional W nk etation G Ma F	ers of th N Vater Commu intenan ootprin	Initie Acre	CDF s and es wi	d Co ithin 00-F Buff	Within egulat Hai <u>over Tj</u> Study oot fer	U/ ed Act bitat De U/E	E ivity scriptic Within 6 Tot	enanc on <sup>3</sup>	Adjac	ility TOTAL cent to	Y The Don	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Deline: 0.01 0.02 enan	Footprin 1 1 1 ated wit Footpri 9 19 ce Fac hificar	hin int⁴	II Impact II Cies	Tier <sup>5</sup>
Summary of Aquatic Habitation (Waters of the U.S. and State) Section II.b. Sum CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitation (Waters of the State Only) Section II.c. Sum Vegetation Concerning Riparian and Withows	s Type of Nonwa vond s Type of Chann Channel r Types fetland Channel rian and W ver Types	etland f CDF Jurisd el Bai f Vege	Waters Waters Waters Waters V Q ictional W nk etation G Ma F	ers of th N	Initie Acre	CDF s and es wi	d Co ithin 00-F Buff 0.00	Within egulat Hal over Tj Study foot fer	U/ ed Act bitat De U/E	E Aainte ivity scriptic Within 6 Tot 0.02	enanc on <sup>3</sup> and and a	Adjac	TOTAL cent to	Y The Don	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Deline: 0.01 0.02 enan	Footprin 1 1 1 ated wit Footpri 9 19 ce Fac hificar	hin int⁴	II Impact II Cies	Tier <sup>5</sup>
Summary of Aquatic Habitat (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitat (Waters of the State Only) Section II.c. St Vegetation Co Cove Riparian and W Unvegetated Co Subtotal Ripar	s Type of Nonwa vond s Type of Chanr Chanr channel channel channel crian and W ver Types	etland f CDF Jurisd el Bat f Vegu es and	Waters Waters Waters Y	ers of th N	Initie Acre	CDF s and es wi	W R d <b>C</b> o ithin 00-F Buff 0.00	Within egulat Hal ver Tj Study coot fer	U/ ed Act bitat De U/E	E Aainte ivity scriptio Within 6 Tot 0.02	enanc on <sup>3</sup> and . al		TOTAL cent to	Y The Don	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Deline: 0.01 0.02 enan	Footprin 1 1 1 ated wit Footpri 9 19 ce Fac hificar	hin int⁴	II Impact II Cies	Tier <sup>5</sup>
Summary of Aquatic Habitat (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitat (Waters of the State Only) Section II.c. St Vegetation Ca Cove Riparian and W Unvegetated Cove Subtotal Riparion Other Land Cove	s Type of Nonwa vond s Type of Chanr Chanr channel channel channel crian and W ver Types	etland f CDF Jurisd el Bar f Veg( es and cetlanc	Waters Waters Waters Waters V  Water	ers of th N Vater Commu intenan ootprin 0.019 0.001	Initie Acre	CDF s and es wi	W R d Co tthin 00-F Buff 0.00 0.00	Withir egulat Hal <u>Study</u> oot fer	U/ ed Act bitat De U/E	E <i>Aainte</i> ivity scriptic Within 6 Tot 0.02 0.02 1.46	enanc on <sup>3</sup> and . al		TOTAL cent to	Y The Don	Mainter Acres I Mainte Mainte	nance 0.01 0.01 N Deline: 0.01 0.02 enan	Footprin 1 1 1 ated wit Footpri 9 19 ce Fac hificar	hin int⁴	II Impact II Cies	Tier <sup>5</sup>
Summary of Aquatic Habitat (Waters of the U.S. and State) Section II.b. St CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitat (Waters of the State Only) Section II.c. St Vegetation Ca Cove Riparian and W Unvegetated Cove Subtotal Riparion Other Land Cove	s Type of Nonwa vond s Type of Chanr Chanr channel rian and W ver Types ped and Cover GRAND T hreatened	etland f CDF Jurisd el Bal f Vegu es and estanc f trype OTAL /Enda	Waters Waters Waters Waters V Wate Internation Interna	ers of th N Vater Commu intenan ootprin 0.019 0.001 0.001 0.001 VSpecia	Initie Acre icce t	CDF s and es wi 1	W R d Co thin 00-F Buff 0.00 1.46 1.46 1.47	Within egulat Hal ver Ty Study foot fer	U/ ed Act bitat Des U/E /pes V / Area	E <i>Aainte</i> ivity scriptic <i>Vithin</i> 6 Tot 0.02 0.02 1.46 1.46 1.45	and . and . 22 22 59 59 59	Adjac Erc	TOTAL cent to	Y Y the Sp., s	Mainter Acres I Mainte Mainte Schism	nance 0.01 0.01 N Delinea nance 0.01 0.00 enan t/Sign	Footprin 1 1 1 1 1 1 1 1 1 1 1 1 1	hin int⁴	II Impact II Cies	Tier <sup>5</sup>

Threatened/Endangered species historically known to occur within the Facility Buffer	N/A								
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None								
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST) Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FT, SE) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)								
Other non-listed special status species historically known to occur within the Facility Buffer	None								
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	None Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California legless lizard ( <i>Anniella stebbinsi</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC) Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL) Pallid bat ( <i>Antrozous pallidus</i> ) (SSC) Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC) Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC) Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC) Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC) American badger ( <i>Taxidea taxus</i> ) (SSC)								
Are species surveys recommended?	Y N N If Yes, for what species?								
Will work occur in the breeding season (Feb-Au	Igust)? Y X N C								

Feature is a nonwetland water that supported standing water at the downstream portion for the channel at the time of surveys. The channel is characterized as an unvegetated channel supporting non-native patches of grasses along the channel banks. Vegetation present consisted of *Erodium sp.*, *schismus sp.*, and *cynodon dactylon*. Sediment deposition and shelving was observed within the channel.

#### Footnotes:

1. Coordinates are based on the centroid of the facility.

- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



E-51 -	800	W	Valley
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			P	PART I. N	IAINTE	NANC	E FA	CILITY	/ INFC	RMA	ΓΙΟΝ						
Facility Nam	e 800 W Valle	Iley Facility ID E-51															
Location	Spruce Stre	eet															
Latitude <sup>1</sup>	33.118691	1	Longitude <sup>1</sup>	-117	.09329	95	Ν	Mainter	nance	Frequ	ency	(yea	rs)		Annual	ly	
Maintenance	e Facility Type		Channel				L	_ining 1	Гуре	Earth	nen						
		Use	of handtool	s to rem	ove nor	native	vege	tation a	and tri	m nati	ve tre	es/sl	hrubs, as	neede	ed.		
Proposed Ma Activities	aintenance	rem	ove nonnati	l equipment proposed; Use of both manual and mechar ive vegetation; Native trees and shrubs that inhibit flows cess ramps will be used to access site.											and		
Will work oc	cur when wate	r is in	the channel	?	Y		Ν			<b>s</b> , will rsion b			ig or wate ?	er Y	<u> </u>		
	PART II. SURVEY INFORMATION																
Surveyors	Lanika Cerv	/antes	s, William Ko	ohn						Da	te of S	Surve	әу	2	/18/2019		
Was water in the channel at the time of the survey?							Р	□ I		E	<b>o</b>						
Nearest Nan	ned Waterbody	/ Es	scondido Cr	eek				NN	/I Inde	x Riv	erine	and	Freshwa	ter For	ested/Sh	rub Wetland	1
NRCS Soils	Visalia sand	y loan	n, 2 to 5 per	cent slop	es, Pla	icentia	sandy	y loam	, 2 to §	9 perce	ent slo	opes					
Section II.a.	Summary of	USA	CE/RWQCB	/CDFW	Waters	of the	U.S.	and S	tate V	Vithin	the N	laint	enance l	- acility	,		
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility         USACE 404/RWQCB 401 Jurisdiction       Y       N       USACE 404 Regulated Activity       Y       N       Only Temporary diversion structures are regulated are regulated and structures are regulated are regulated and structures are regulated are regulated are regulated and structures are regulated								y diversion									
USACE Nonwetland Present	Waters	Y 🛛	N C	USACE Wetland Waters Present Y X N D Datap							nt(s)	Y D	N				
Associated [	Datasheet(s)		Wetland	Sample F	<sup>2</sup> oint 1.	1 and 1	1.2										
	Type of Jurisdic	ctional	Water	Habitat Description. <sup>3</sup>							Acres Delineated within Maintenance Footprint <sup>4</sup>			Impact Tier	5		
Summary	Wetland wate	ers					V/E	E					0.732			I	
of Aquatic	Wetland wate	ers					V/E	E	0.031					II			
Habitats (Waters of							Su	btotal	Wetla	nds V	laters	s		0.763		-	
the U.S.	Nonwetland						V/E							0.001			
and State)	Nonwetland	Water	ſS				<u>]/۷</u> منطق	= otal No	nuot	and M	lator	_		0.018 0.018		IV	
							SUDIC	Diai NO	mweu			-		0.018 0.781		-	_
Section II.b.	. Summary of	CDF	W Waters o	f the Sta	te Onl	y Withi	in the	Maint	enand								
CDFW 1600 Jurisdiction I USACE Wat	Beyond		Y 🛛 N				CDI	FW Re	gulate			Y	$\boxtimes$	N 🗆			
	Type of Jurisdi	ctional	Water			Habit	tat Des	cription	3				Acres De Maintena			Impact Tie	r <sup>5</sup>
Summary	Riparian Exte	ent					V/E	_						0.732		1	
of Aquatic	Riparian Exte						V/E							0.547		П	
Habitats (Waters									al Ripa	arian E	Exten	nt		1.279		-	
of the State	Channel Ban	ık		Subtotal Riparian Extent							0.002			II.			
Only)	Channel Ban	nk					V/E				Dar	4		0.030		IV	
	Channel Ban	nk					V/E		tal Ch	nannel	Ban TOT			0.030 0.033 <b>1.311</b>		IV -	

Section II.c. Summary of Vegetation Commun	ities and Cover T	ypes Within a	and Adjacent to	the Maintenance Facility			
	Acre	s within Stu	dy Area <sup>6</sup>				
Vegetation Communities and Cover Types	Maintenance Footprint	100-Foot Buffer	Total	Dominant/Significant Species			
Riparian and Wetland		· · · ·					
Disturbed So. Cottonwood-Willow Riparian Fore	est 0.082	0.132	0.214	Populus fremontii; Salix lasiolepis			
Coastal and Valley Freshwater Marsh	0.732	0.002	0.734	Typha domingensis			
Subtotal Riparian and Wetland	0.814	0.134	0.949				
Jpland	-						
Non-Native Woodland	0.408	0.030	0.437	Eucalyptus ssp., Washingtonia robusta			
Non-Native Grassland	0.058	0.005	0.063	Cynodon dactylon			
Subtotal Upland	0.466	0.035	0.500				
Other Land Cover Types	0.000	0.040	0.040				
Disturbed Habitat	0.003	0.016	0.019				
Urban/Developed	0.077	7.572	7.649				
Subtotal Other Land Cover Types	0.080	7.588	8.18				
<b>GRAND TOTAL<sup>6</sup></b>	1.360	7.757	9.117				
Section II.d. Threatened/Endangered/Special	Status Species W	ithin the Vici	nity of the Main	tenance Facility <sup>7</sup>			
2019 held surveys within the racinty buller	None						
historically known to occur within the	N/A						
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None						
Buffer	Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST) Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FT, SE) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)						
Other non-listed special status species historically known to occur within the Facility Buffer	None						
historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California legless lizard ( <i>Anniella stebbinsi</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC) Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL) Pallid bat ( <i>Antrozous pallidus</i> ) (SSC) Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC) Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC) Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC) Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC) American badger ( <i>Taxidea taxus</i> ) (SSC)						
Are species surveys recommended?	Y 🗌 N 🛛		If Yes, for what species?				
Will work occur in the breeding season (Feb-Aug	ust)?			Y 🛛 N 🗆			

#### City of Escondido Channel Maintenance RGP – Facility Summary PART III. ADDITIONAL NOTES/COMMENTS

The channel supports wetland waters that is dominated by *Typha domingensis* and supports areas of both flowing and ponded water. All wetlands occur within the OHWM of the channel. Lots of wrack and sediment deposition observed within the channel in addition to clear shelving. The downstream segments enters a box culvert that outlets into a short concrete apron before becoming an earthen bottom again. The upstream segment (east of Valley Center Parkway) is dominated by *Typha domingensis* and *Ricinus communis*.

#### Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is
- included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



#### E-51 - 800 W Valley



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel	Maintenand	ce RGP	City/County:Eso	City/County:Escondido/San Diego			Sampling Date: 2/26/2019		
Applicant/Owner: City of Escondido					State:CA	Sampling P	Point:E-51	WSP 1.1	
Investigator(s): Lanika Cervantes; Willia	m Kohn		Section, Township, Range:						
Landform (hillslope, terrace, etc.): Drainage	e		Local relief (co	ncave, convex	none):convex		Slope (	%):2	
Subregion (LRR): C - Mediterranean Cali	fornia	Lat: 33.	117957	Long	-117.091964		Datum:		
Soil Map Unit Name: Visalia sandy loam,	2 to 5 perce	ent slopes			NWI classi	fication:Fresh	water For	rested/Shrut	
Are climatic / hydrologic conditions on the si         Are Vegetation       Soil         Are Vegetation       Soil         Or Hydro         Soil       or Hydro	logy	significantly naturally pro	disturbed? oblematic?	Are "Norma (If needed, e	(If no, explain in Circumstances explain any answ	present? Ye	(S.)	No 🔿	
SUMMARY OF FINDINGS - Attac	in site ma	p snowing	sampling p	Dint locatio	ns, transect	s, importar	nt reatur	es, etc.	
Hydric Soil Present?	Yes (•) Yes (•) Yes (•) He OHWM (•)	No O No O No O of the channe	within a	ampled Area Wetland?	Yes (	No C	)		

### VEGETATION

Number of Dominant Species	
That Are OBL, FACW, or FAC: 3 (A)	
- Total Number of Dominant	
Species Across All Strata: 3 (B)	
- Percent of Dominant Species	
That Are OBL, FACW, or FAC: 100.0 % (A/B)	)
Prevalence Index worksheet:	
Total % Cover of:Multiply by:	
OBL species 70 x 1 = 70	
FACW species $25 \times 2 = 50$	
FAC species $x = 0$	
FACU species x 4 = 0	
UPL species $10 \times 5 = 50$	
_ Column Totals: 105 (A) 170 (E	3)
1102	
Hydrophytic Vegetation Indicators:	
➤ Dominance Test is >50%	
Morphological Adaptations <sup>1</sup> (Provide supporting	
, , , , , , , , , , , , , , , , , , , ,	
-	
Hydrophytic	
Present? Yes I No	
	Species Across All Strata:       3       (B)         Percent of Dominant Species       That Are OBL, FACW, or FAC: $100.0 \%$ (A/B)         Prevalence Index worksheet:

#### SOIL

Profile Des	cription: (Describe t	o the de	pth needed to docun	nent the	e indicator	or confirm	m the absence of indicators.)				
Depth	Matrix		Redox								
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>				Texture Remarks				
0-16	10-YR 2/1	95	7.5 4/6	5	С	Μ	Loamy/Clay				
							·				
					·	·	·				
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RM	/=Reduced Matrix, CS	=Cover	ed or Coate	ed Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
Hydric Soil	Indicators: (Applicable	e to all L	RRs, unless otherwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :				
Histoso	l (A1)		Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)				
Histic E	pipedon (A2)		Stripped Ma	trix (S6)	)		2 cm Muck (A10) ( <b>LRR B</b> )				
	listic (A3)		Loamy Mucl		. ,		Reduced Vertic (F18)				
	en Sulfide (A4)		Loamy Gley		. ,		Red Parent Material (TF2)				
	ed Layers (A5) ( <b>LRR C</b>	)	Depleted Ma	`	/		Other (Explain in Remarks)				
	uck (A9) ( <b>LRR D</b> )		X Redox Dark		. ,						
	ed Below Dark Surface	e (A11)	Depleted Da		. ,						
	ark Surface (A12)		Redox Depr		(F8)		<sup>3</sup> Indicators of hydrophytic vegetation and				
	Mucky Mineral (S1)		Vernal Pool	s (F9)			wetland hydrology must be present,				
Sandy	Gleyed Matrix (S4)						unless disturbed or problematic.				
Restrictive	Layer (if present):										
Type:											
Depth (ir	nches):						Hydric Soil Present? Yes   No				
Remarks: R	edox observed duri	ng soils	observations.								

## HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)				
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)				
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )				
X Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )				
Water Marks (B1) (Nonriverine)	] Hydrogen Sulfide Odor (C1)	X Drainage Patterns (B10)				
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)				
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (C6)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes O No 💿	Depth (inches):					
Water Table Present? Yes O No 💿	Depth (inches):					
Saturation Present? Yes  No  (includes capillary fringe)	Depth (inches): 4 inches Wetland Hy	drology Present? Yes 💿 No 🔿				
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if availa	able:				
Remarks: Typha bent over by flows.						
Remarks:Typha bent over by flows.						

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenan	ice RGP	City/County:Escondido/Sa	an Diego	Sampling Date:2/26/2019		
Applicant/Owner:City of Escondido			State:CA	Sampling Point:E-5	1 WSP 1.2	
Investigator(s): Lanika Cervantes; William Kohn		Section, Township, Range:				
Landform (hillslope, terrace, etc.): hillslope		Local relief (concave, conv	/ex, none):convex	Slope	(%):30	
Subregion (LRR): C - Mediterranean California	Lat: 33.	.117934 Lo	ong:-117.092015	Datum:		
Soil Map Unit Name: Visalia sandy loam, 2 to 5 perce	ent slopes		NWI classifi	cation:Freshwater E	mergent Wet	
Are climatic / hydrologic conditions on the site typical for	this time of ye	ear? Yes 💿 No 🔿	(If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology	significantly	/ disturbed? Are "Nor	mal Circumstances"	present? Yes 🖲	No 🔿	
Are Vegetation Soil or Hydrology	naturally pro	oblematic? (If neede	d, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site ma	p showing	sampling point loca	tions, transects	, important feat	ures, etc.	
Hydrophytic Vegetation Present? Yes	No 🖲					
Hydric Soil Present? Yes	No 💿	Is the Sampled Are	ea			
Wetland Hydrology Present? Yes	No 🜘	within a Wetland?	Yes 🔿	No 💿		
Remarks:Sample point taken on hillslope outside	of OHWM.	Approximately 3 feet his	gher in elevation f	rom 1.1.		

### VEGETATION

	Absolute	Dominant		Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)		Species?		Number of Dominar				
1.Washingtonia robusta	5	Yes	FACW	That Are OBL, FAC	W, or FA	C: 2	(	(A)
2				- Total Number of Do	minant			
3				Species Across All Strata: 4				
4				Percent of Dominant Species				
Sapling/Shrub Stratum	r: 5 %			That Are OBL, FAC			) % (	(A/B)
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Multiply	by:	
3.			·	OBL species		x 1 =	0	
4.				FACW species	5	x 2 =	10	
5.				FAC species	15	x 3 =	45	
Total Cover	%			FACU species		x 4 =	0	
Herb Stratum	,,,,			UPL species	40	x 5 =	200	
1.vinca major	30	Yes	Not Listed	Column Totals:	60	(A)	255	(B)
2.oxalis pes-caprae	10	Yes	Not Listed			. ,		
3. poa sp.	15	Yes	FAC	Prevalence Inc			4.25	
4				Hydrophytic Veget	ation Inc	licators:		
5.			-	Dominance Tes	st is >50%	0		
6.				Prevalence Inde	ex is ≤3.0	) <sup>1</sup>		
7				Morphological A		ns <sup>1</sup> (Provide s n a separate s		ng
8				- Problematic Hy			,	)
Total Cover Woody Vine Stratum	55 %					(	_,,p.i,	,
1				<sup>1</sup> Indicators of hydric	soil and	I wetland hyd	rology r	nust
2.	·	·	·	be present.				
Total Cover	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 45 % % Cover	of Biotic C	Crust	%		Yes 🔿	No 🖲		
Remarks: Hillslope supports a mixture of wetland a	nd nonwe	etland veg	etation.	4				

#### SOIL

Profile Des	cription: (Describe t	o the depth	needed to docur	nent the i	ndicator of	or confirm	m the absence of indicators.)	
Depth	Matrix		Redox	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-14	10-YR 3/1	100					Loamy/Clay	
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=Re	educed Matrix, CS	S=Covere	d or Coate	d Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Applicabl	e to all LRRs,	unless otherwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histoso	ol (A1)		Sandy Redo	x (S5)			1 cm Muck (A9) (LRR C)	
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) ( <b>LRR B</b> )	
	listic (A3)		Loamy Muc	•	. ,		Reduced Vertic (F18)	
	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)	
	ed Layers (A5) ( <b>LRR C</b>	;)	Depleted M	( )			Other (Explain in Remarks)	
	luck (A9) ( <b>LRR D</b> )		Redox Dark		. ,			
	ed Below Dark Surface	e (A11)	Depleted Da		. ,			
	Dark Surface (A12)		Redox Dep	```	F8)		<sup>3</sup> Indicators of hydrophytic vegetation and	
	Mucky Mineral (S1)		Vernal Pool	s (F9)			wetland hydrology must be present,	
	Gleyed Matrix (S4)						unless disturbed or problematic.	
	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Present? Yes O No 🖲	
Remarks: N	No redox observed a	nd soils we	re drier.					

## HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)	
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
X Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed	Soils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 💿	Depth (inches):	
Water Table Present? Yes O 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 inspec	ions), il available.
Remarks:No hydrology indicators. Sample poi	nt taken 3 feet higher in elevation	n from 1.1.
US Army Corps of Engineers		

					. MAINTENANCE							
Facility Name	Rock Sprir	ngs				Fac	cility ID	E-52				
Location	Rock Sprir	ngs Ro	bad									
Latitude <sup>1</sup>	33.13602	26	Longitude <sup>1</sup>	-1	17.105559	Mai	intenance	Frequ	ency (ye	ears)	Annual	ly
Maintenance	Facility Type		Channel			Lini	ing Type	Earth	en and	Concrete		
		Rei	move accum	ulated	sediment and we	ed rem	noval.					
Proposed Ma Activities	Proposed Maintenance ActivitiesEquipment will be staged on the street and backhoe or exc channel for clean excavation. No dragging of equipment al											
Will work occ	ur when wate	er is in	the channel	?	Y 🖾 N				dewate e neede	ring or wate ed?	er Y 🛛 N	1
					PART II. SURVE	ey inf	ORMATIO	ON				
Surveyors	Lanika Cer	vante	s and Williar	n Kohr	ı			Da	te of Su	rvey	2/26/2019	)
Was water in survey?	the channel	at the	time of the		Y 🖾 N		Hydrolog	ју Туре	<sup>2</sup> P		□ E ⊠	<b>o</b>
Nearest Nam	ed Waterbod	ly E	scondido Cr	eek			NWI Inde	ex Not	classifie	ed		
NRCS Soils	Visalia sano	dy loa	m, 2 to 5 per	rcent s	lopes and Escond	ido ver	ry fine sar	ndy loa	m, 5 to 9	9 percent s	lopes	
Section II.a.	Summary of	f USA	CE/RWQCE	B/CDFV	V Waters of the L	J.S. an	d State V	Vithin	the Mai	ntenance	Facility	
USACE 404/				Y	N D		CE 404 R				Y 🗌 N	$\boxtimes$
						-		5		,	Only Temporar	y diversion
											structures are r	-
USACE Nonv Waters Prese		Y [	X N C	-	SACE Wetland aters Present	Y [	N	$\boxtimes$	Datapo Taken		Y N Only Temporar	v diversion
Waters Frest	, inc								Taken		structures are r	
Accepted D	atachact(a)											
Associated D	alasheel(s)											
Summary of Aquatic	Type of Jurisd	ictiona	l Water		Habita	t Descri	ption <sup>3</sup>				lineated within ance Footprint <sup>4</sup>	Impact Tier⁵
Summary of Aquatic Habitats	Type of Jurisd	Wate	rs		Habita	U/E	ption <sup>3</sup>			Maintena	ance Footprint <sup>4</sup>	
Summary of Aquatic	Type of Jurisd	Wate	rs		Habita		ption <sup>3</sup>			Maintena	ance Footprint <sup>4</sup> 0.043 0.001	
Summary of Aquatic Habitats (Waters of	Type of Jurisd	Wate	rs		Habita	U/E	ption <sup>3</sup>		TOTAL	Maintena	ance Footprint <sup>4</sup>	
Summary of Aquatic Habitats (Waters of the U.S. and State)	Type of Jurisd Nonwetland Nonwetland	Wate Wate	rs rs	of the S	Habita	U/E U/C	- 	ce Fac	-	Maintena	ance Footprint <sup>4</sup> 0.043 0.001	
Summary of Aquatic Habitats (Waters of the U.S. and State)	Type of Jurisd Nonwetland Nonwetland Summary o	Wate Wate	rs rs			U/E U/C	aintenan	ce Fac	ility	Maintena	ance Footprint <sup>4</sup> 0.043 0.001	II
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B	Type of Jurisd Nonwetland Nonwetland Summary o	Wate Wate	rs rs <i>W Waters o</i> Y ⊠ N		State Only Within	U/E U/C	l <b>aintenan</b> vity	ce Fac	ility	Maintena Y 🛛	ance Footprint <sup>4</sup> 0.043 0.001 0.045	II
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Wate Summary of Aquatic Habitats	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Jurisc Channel Ba	Wate Wate	rs rs <i>W Waters o</i> Y ⊠ N		State Only Within	U/E U/C the M ed Activ at Descri U/E	l <b>aintenan</b> vity	ce Fac	ility	Maintena Y 🛛	Ance Footprint <sup>4</sup> 0.043 0.001 0.045 N Pelineated within hance Footprint <sup>4</sup> 0.087	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Wate Summary of Aquatic	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Juriso	Wate Wate	rs rs <i>W Waters o</i> Y ⊠ N		State Only Within	U/E U/C the M ed Activ	l <b>aintenan</b> vity	ce Fac	ility	Maintena Y 🛛	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003	II IV Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Wate Summary of Aquatic Habitats (Waters of the State Only)	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Juriso Channel Ba Channel Ba	Wate Wate	rs rs W Waters o Y 🛛 N Il Water		State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C	aintenan vity iption <sup>3</sup>		ility	Maintena Y X Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Wate Summary of Aquatic Habitats (Waters of the State Only)	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Juriso Channel Ba Channel Ba	Wate Wate	rs rs W Waters o Y 🛛 N Il Water		State Only Within	U/E U/C the M ed Activ at Descri U/E U/C	aintenan vity iption <sup>3</sup>		ility	Maintena Y X Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Water Summary of Aquatic Habitats (Waters of the State Only) Section II.c.	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Jurisc Channel Ba Channel Ba Summary o	Wate Wate	rs rs W Waters o Y 🖾 N I Water etation Com		State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C	aintenan vity iption <sup>3</sup>		ility	Maintena Y X Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Water Summary of Aquatic Habitats (Waters of the State Only) Section II.c.	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Juriso Channel Ba Channel Ba	Wate Wate	rs rs W Waters o Y 🖾 N Il Water	Dimunit Acc	State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C	aintenan vity iption <sup>3</sup>		ility	Maintena Y X Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Co	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Jurisc Channel Ba Channel Ba Summary of Communitie	Wate Wate	rs rs W Waters o Y 🖾 N I Water etation Com	Dimuniti Accinance	State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C (pes M Area <sup>6</sup>	aintenan vity iption <sup>3</sup>		TOTAL cent to t	Maintena Y ⊠ Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Co	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Jurisc Channel Ba Channel Ba Summary of Communitie ver Types Wetland	Wate Wate	rs rs W Waters o Y N N Water	munit Ac nance	State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C (pes M Area <sup>6</sup>	aintenan vity iption <sup>3</sup> /ithin and		TOTAL cent to t	Maintena Y ⊠ Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090 chance Facility	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Water Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Co	Type of Jurisd Nonwetland Nonwetland Summary o eyond ers Type of Jurisc Channel Ba Channel Ba Summary o Communitie ver Types Wetland d Channel	Wate Wate	rs rs rs W Waters o Y N N UWater etation Com Maintee Footp 0.08	Domunite Acconnance print	State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C (pes M Area <sup>6</sup>	aintenan vity iption <sup>3</sup> /ithin and Total 0.087		TOTAL cent to t	Maintena Y ⊠ Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090 chance Facility	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Water of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Co Riparian and Unvegetate Subtotal Rip	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Jurisc Channel Ba Channel Ba Summary of Communitie ver Types Wetland	Wate Wate	rs rs rs W Waters o Y N N UWater etation Com Maintee Footp 0.08	Domunite Acconnance print	State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C (pes M Area <sup>6</sup>	aintenan vity iption <sup>3</sup> /ithin and		TOTAL cent to t	Maintena Y ⊠ Acres D Mainten	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090 chance Facility	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction B USACE Water Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Co	Type of Jurisd Nonwetland Nonwetland Summary of eyond ers Type of Jurisc Channel Ba Channel Ba Summary of Communitie ver Types Wetland d Channel parian and W	Wate Wate	rs rs rs W Waters o Y N N UWater etation Com Maintee Footp 0.08	Acconnance	State Only Within CDFW Regulate Habita	U/E U/C the M ed Activ at Descri U/E U/C (pes M Area <sup>6</sup>	aintenan vity iption <sup>3</sup> /ithin and Total 0.087	l Adjad	TOTAL cent to t	Maintena Y 🖂 Acres D Mainten the Mainte	ance Footprint <sup>4</sup> 0.043 0.001 0.045 N elineated within ance Footprint <sup>4</sup> 0.087 0.003 0.090 chance Facility	Impact Tier <sup>5</sup>

## E-52 - Rock Springs

#### City of Escondido Channel Maintenance RGP – Facility Summary Other Land Cover Types

E-52	_	Rock	S	prings
-				

Urban/Developed	0.029	2.030 2.059						
Subtotal Other Land Cover Types	0.029	2.030	2.059					
GRAND TOTAL <sup>6</sup>	0.137	4.049	4.186					
Section II.d. Threatened/Endang	ered/Special S	Status Species With	in the Vicinity of	f the Maintenance Facility <sup>7</sup>				
Special status species observed du field surveys within the Facility Buf		None						
Threatened/Endangered species h known to occur within the Facility E		N/A						
Threatened/Endangered species h Designated Critical Habitat within t Buffer		None						
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer		Fricolored blackbird (	Agelaius tricolor)	(, CE)				
Other non-listed special status spe historically known to occur within th Buffer		None						
Other non-listed special status spe historically known to occur within 1 the Facility Buffer		None						
Are species surveys recommended	1? ``	r □ n ⊠	If Yes, for what species?					
Will work occur in the breeding sea	ison (Feb-Augu	ust)?		Y N D				

# PART III. ADDITIONAL NOTES/COMMENTS

Channel is a roadside ditch that flows directly adjacent to the road. The channel is unvegetated and supported shelving and sediment deposition. The channel also had flowing water at the time of the survey. The downstream segment of the channel is concrete-lined.

#### Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

PART IV. REPRESENTATIVE FACILITY PHOTOGRAPHS
Representative Photograph 1. Facing E. Concrete-lined channel at downstream end



#### Reidy Creek: Rincon to Pleasantwood

PART I. MAINTENANCE FACILITY INFORMATION									
Facility Name	Reidy Cree	ek: Rincon to P	leasantwood		Facility ID	E-53			
Location	Rincon Ave	enue							
Latitude <sup>1</sup>	33.16030	5 Longitud	de <sup>1</sup> -117.08	39170	Maintenance	Frequency (y	ears)	Annual	ly
Maintenance	Facility Type	Channe			Lining Type	Earthen			
		Maintenance	areas include:	15ft from con	crete apron (full	bank width) a	and 10ft wide p	oilot channel.	
Proposed Mai Activities	intenance	Remove accu trees/shrubs,		ent and herba	aceous vegetati	on for pilot ch	annel. Handwo	ork for trimmi	ng of native
Will work occu	ur when wate	r is in the chan	nel?	Υ□		<b>es</b> , will dewate rsion be need	ering or water ed?	Y	Ⅰ ⊠
			PAR	RT II. SURVE	Y INFORMATIO	ON			
Surveyors	Lanika Cer	vantes and Wil	liam Kohn			Date of Su	ırvey	2/18/2019	)
Was water in the survey?	the channel a	at the time of	Y		Hydrolog	y Type <sup>2</sup> F	• 🗆 I 🗵	3 E 🗆	<b>o</b>
· · · · · · · · · · · · · · · · · · ·	ed Waterbod	y Reidy Creeł	(		NWI Inde	x Freshwater	r Forested/Shr	ub Wetland	
NRCS Soils	Visalia sandy	/ loam, 0 to 2 p	ercent						
Section II.a.	Summary of	USACE/RWQ	CB/CDFW Wa	ters of the U	.S. and State V	Vithin the Ma	intenance Fac	cility	
USACE 404/F	RWQCB 401	Jurisdiction	Y 🛛	N 🗆	USACE 404 R	egulated Activ	/ity Y	N N	
USACE Nonw Waters Prese		Y 🗌 N		Wetland Present	Y 🛛 N	Datap	ooint(s) Y	N N	
Associated Da	atasheet(s)	Wetla	nd Sample Poir	nts 1.1 and 1.	2; OHWM Data	Sheet	·		
Summary of Aquatic	Type of Jurisdi	ctional Water		Habitat	Description <sup>3</sup>		Acres Deline Maintenance		Impact Tier⁵
	Wetland Wat	ters			V/E				I
(Waters of the U.S.	Nonwetland	Waters			//C			)01	IV
and State)						TOTAL	0.3	38	
Section II.b.	Summary of	CDFW Water	s of the State	Only Within	the Maintenan	ce Facility <sup>10</sup>			
CDFW 1600 Jurisdiction B USACE Wate	-	ΥX	N 🗌	CDFW Reg	ulated Activity		Y 🛛 N		
	Type of Jurisd	ictional Water		Habitat	Description <sup>3</sup>			eated within ce Footprint <sup>4</sup>	Impact Tier⁵
Summary of Aquatic	Riparian Ext	ent			V/E		0.4	401	I
Habitats	Channel Bar						-	.001	II
(Waters of the State	Channel Bar	nk					-	.001	IV
Only)					Subtotal Ch	annel Bank TOTAL		002 <b>402</b>	-
Section II c	Summary of	Vegetation C	ommunities ai	nd Cover Tv	oes Within and	Adiacent to	the Maintena	nce Facility	
				es within Stu			the maintena	nce r acinty	
Vegetation	Communitie Types	s and Cover	Maintenance	100-Foot					
<b>D</b> ' (			Footprint	Buffer	Total		Dominant/Sig	gnificant Spe	ecies
Riparian and So. Cottonw		Riparian Forest	0.401	2.056	2.456	Populus fi	remontii; Salix	lasiolenis	
	iparian Scrub	· · · · · · · · · · · · · · · · · · ·	-	0.060	0.060		salicifolia; Wa		
	parian and We		0.401	2.116	2.517	Dattinalis	Salicii Olia, Wa	sinnytoina	
Upland									
Eucalyptus	Woodland		<0.001	0.799	0.75	Eucalypt	us ssp.		

City of Escondido Channel Mainten	ance RGP -	- Facility Su	mmary	<b>Reidy Creek: Rincon to Pleasantwood</b>
Non-Native Grassland	-	0.037	0.037	Cynodon dactylon
Subtotal Upland	0.001	0.837	0.837	
Other				
Disturbed Habitat	<0.001	0.709	0.709	
Open Water	<0.001	0.268	0.27	
Urban/Developed	<0.001	0.550	0.55	
Subtotal Other	0.001	1.527	1.53	
GRAND TOTAL <sup>6</sup>	0.402	4.480	4.881	
Section II.d. Threatened/Endangered/S	pecial Status	Species Wit	hin the Vicinity o	of the Maintenance Facility <sup>7</sup>
Special status species observed during 20 field surveys within the Facility Buffer		-		
Threatened/Endangered species historica known to occur within the Facility Buffer	lly N/A			
Threatened/Endangered species having Designated Critical Habitat within the Faci Buffer	lity None			
Threatened/Endangered species historica known to occur within 1.0 mile of the Faci Buffer				
Other non-listed special status species historically known to occur within the Facil Buffer	ity None			
Other non-listed special status species historically known to occur within 1.0 mile the Facility Buffer	of None			
Are species surveys recommended?	Y 🗵	] N 🗌	If Yes, for what	Least Bell's vireo and San Diego Ambrosia
Will work occur in the breeding season (Fe	eb-August)?			Y 🖾 N 🗆
	PART II	. ADDITIONA	L NOTES/COMM	<b>MENTS</b>
	ne eastern sid n developme	de of the wetla ent occur on eit	nd habitat. Cours	se sand within width of OHWM and all wetlands hannel. The active floodplain is very flat and

#### Footnotes:

1. Coordinates are based on the centroid of the facility.

- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).





Project: C. H. A. ESCARDAD       Dat:: D. M.C. M. S. State: C. A.         Project Number:       Creak       Town: Escandido         Stream:       Creak       Town: Escandido         Stream:       Creak       Photo begin files:         Y [] / N [] to be ormal circumstances exist on the site?       Location Details:         Y [] / N [] to the site significantly disturbed?       Coordinates:       Location Details:         Y [] / N [] to be ormal circumstances on the channel system:       Town: Segment of (Edd (CREK is Surfaceded to Wann dowloader)         Brief site description:       Share (Carian Candy)         Brief site description:       Share (Carian Candy)         Gage number:       Period of record:         Flat with girtle transtanto uplands:       Cariands:         Checklist of resources (if available):       Stream gage data         Gage number:       Period of record:         Topographic maps       Biod frequency analysis         Vegetation maps       Biod frequency analysis         Soils maps       Caria Charde         Global positioning system (GPS)       Otew Flow Channels         Other studies       Hydrogeomorphic Floodplain units         Active Floodplain       Low Terace         Vegetation present at the site.       Otew Flow Channels <td< th=""><th>Arid West Ephemeral and Intermit</th><th>tent Streams OHWM Datasheet</th></td<>	Arid West Ephemeral and Intermit	tent Streams OHWM Datasheet
Y N Do normal circumstances exist on the site?       Location Details:	Project Number: Stream: Reidy Creek	Town: Escandido State: CA
Y       IN       Is the site significantly disturbed?       Projection: Coordinates:       Datum: Coordinates:         Potential anthropogenic influences on the channel system: This segment of feidy cleck is surranded by udoan development Howes wat the right of cleck is surranded by udoan development Howes wat the right of early       Surranded by udoan development Howes wat the right of early         Brief site description: Snalew slope along western edge, active floadform very flat with gentle transition to ulards.       Stream gage data Gage number: Period of record: Geologic maps         Dates: Soils maps       Particle transition to ulards.         Rainfall/precipitation maps       Bister cent shift-adjusted rating Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         Global positioning system (GPS)       Hydrogeomorphic Floodplain Units         Active Floodplain       Low Flood channel         Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:         Nak the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.         Select a representative cross section har cores the channel. Draw the cross section and label the floodplain units.         Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.         Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.         Determine a point on the cross section		1
Potential anthropogenic influences on the channel system: This segment of reidy creak is surraunded by urban development Haves dot the repartance anoty. Brief site description: Shaltw slote along western edge, active floodplain very flat with gintle transition to glands. Checklist of resources (if available): Acrial photography Dates: Topographic maps Geologic maps Vegetation maps Rainfall/precipitation maps Existing delineation(s) for site Global positioning system (GPS) Other studies Hydrogeomorphic Floodplain Units Active Floodplain Low-Flow Channels Hydrogeomorphic Floodplain units to assist in identifying the OHWMI: Walk the channel and floodplain within the study area to get an impression of the geomorphic floodplain units. Becaute and floodplain within the study area to get an impression of the geomorphic floodplain units. Becaute and floodplain within the study area to get an impression of the geomorphic floodplain units. Becaute for identifying and characterizing the floodplain units to assist in identifying the OHWMI: Walk the channel and floodplain within the study area to get an impression of the geomorphic floodplain units. Becaute and floodplain within the study area to get an impression of the geomorphic floodplain units. Becaute the sediment exture (using the channel. Draw the cross section and label the floodplain units. a) Record the floodplain unit and GPS position. b) Describe the sediment exture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit. a) Record the indocoment 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:	Y $\square$ / N $\bigcirc$ Is the site significantly disturbed?	Projection: Datum:
Brief site description: Shall with gentle stanstian to where edge, active floodplain very flot with gentle stanstian to where edge, active floodplain very flot with gentle stanstian to where Checklist of resources (if available): Acrial photography Gage number: Topographic maps Period of record: Geologic maps History of recent effective discharges Vegetation maps Gage heights for 2-, 5-, 10-, and 25-year events and the most recent shift-adjusted rating Rainfall/precipitation maps Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event Global positioning system (GPS) Other studies Hydrogeomorphic Floodplain Units Active Floodplain Active Floodplain Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM! Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site. Select a representative cross section across the channel. Draw the cross section and label the floodplain units. Beristing a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. Bereisting a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. Bereisting a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. Bereisting the floodplain unit and GPS position. B) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit. B) Identify any indicators present at the location. Characteristic of the dollain units across the cross section. So Identify the OHWM and record the indicators. Record the OHWM position via:	Potential anthropogenic influences on the channel sys	tem:
Brief site description: Shall with gentle stanstian to where edge, active floodplain very flot with gentle stanstian to where edge, active floodplain very flot with gentle stanstian to where Checklist of resources (if available): Acrial photography Gage number: Topographic maps Period of record: Geologic maps History of recent effective discharges Vegetation maps Gage heights for 2-, 5-, 10-, and 25-year events and the most recent shift-adjusted rating Rainfall/precipitation maps Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event Global positioning system (GPS) Other studies Hydrogeomorphic Floodplain Units Active Floodplain Active Floodplain Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM! Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site. Select a representative cross section across the channel. Draw the cross section and label the floodplain units. Beristing a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. Bereisting a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. Bereisting a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. Bereisting the floodplain unit and GPS position. B) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit. B) Identify any indicators present at the location. Characteristic of the dollain units across the cross section. So Identify the OHWM and record the indicators. Record the OHWM position via:	This segment of reidy cre	et is surrounded by urban development
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<ul> <li>Aerial photography</li></ul>	Brief site description: Shalbw slope along wes flat with gentle transition to upla	tern edge, active floodplain very . .nds.
<ul> <li>Aerial photography</li></ul>	Checklist of resources (if available):	
<ul> <li>Active Floodplain</li> <li>Low Terrace</li> <li>Low-Flow Channels</li> <li>OHWM Paleo Channel</li> </ul> Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM: <ol> <li>Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.</li> <li>Determine texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>Identify any indicators present at the location.</li> <li>Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>Identify the OHWM and record the indicators. Record the OHWM position via:</li> </ol>	Dates:Gage numTopographic mapsPeriod of rGeologic mapsHistorVegetation mapsResultSoils mapsMostRainfall/precipitation mapsGageExisting delineation(s) for sitemostGlobal positioning system (GPS)	ber: record: ry of recent effective discharges ts of flood frequency analysis recent shift-adjusted rating heights for 2-, 5-, 10-, and 25-year events and the
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<ul> <li>vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units. <ul> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ul> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHWM and record the indicators. Record the OHWM position via:</li> </ul>	Procedure for identifying and characterizing the floo	dplain units to assist in identifying the OHWM:
	<ul> <li>vegetation present at the site.</li> <li>2. Select a representative cross section across the channel</li> <li>3. Determine a point on the cross section that is charactereal and a point on the cross section that is charactereal and the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> <li>4. Repeat for other points in different hydrogeomorphic</li> <li>5. Identify the OHWM and record the indicators. Record Mapping on aerial photograph</li> </ul>	Draw the cross section and label the floodplain units. ristic of one of the hydrogeomorphic floodplain units. h class size) and the vegetation characteristics of the floodplain units across the cross section. I the OHWM position via: GPS
Digitized on computer Other:	Digitized on computer	Other:

Inches (in)			Millimeters (mm)				Wentworth size class		
1	0.08	1		-	256			Boulder	
	2.56				64		-	Cobble	Gravel
	0.157		c796-477	-	4	\#dubit	00.00		e :
	0.079	_			2.00			Granule	
	0.039		-	wate	1.00			Very coarse sand	
	0.020				0 50			Coarse sand	σ
	0.0098			_	0.25			Medium sand	Sand
	0,005				0 125		0004	Fine sand	
	0.0025	-			0,0626			Very fine sand	
		and developments				,		Coarse silt	
	0.0012		*****	-	0.031			Medium silt	مبد
1/32	0.00061			-	0.0156	;		Fine silt	Т.
1/64	0.00031	****		4949	0.0078	,	~	Very fine silt	
1/128 —	0.00015		······		0.0039	)		<u> </u>	τ
								Clay	Mud

Wentworth Size Classes

Project ID: Cross section ID:	Lincon Date: 2/18/19 Time:
Cross section drawing:	
E Terrace	other other Ferrace W
OHWM	
GPS point:	
Indicators: Change in average sediment texture Change in vegetation species Change in vegetation cover Comments: Stopes from terrate to offwr A annual grasses to salt g	Break in bank slope Other: Other: n are gentle. Transitions from Eucalyptus st n are gentle. Transitions from Eucalyptus st rass, willows, typha within othurm.
Floodplain unit: X Low-Flow Channel GPS point:	Active Floodplain Low Terrace
Characteristics of the floodplain unit: Average sediment texture: Fine Silt Total veg cover: 60 % Tree: 8 % Sh Community successional stage: NA Early (herbaceous & seedlings)	hrub: <u>60</u> % Herb: <u>60</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	<ul> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>
Comments: Low Flow supports go Distint bench from	Other: noted water and Cattails. low Flaw channel to active Flood Pla

Project ID: Cross section ID:		
Floodplain unit: Low-Flow Channel	Active Floodplain  Low Terrace	
GPS point:		
Characteristics of the fleedulain units		
Characteristics of the floodplain unit: Average sediment texture: <u>Medium 511</u> Total year anyon 0.5 % Tradit 0.0 %	and the second se	
Total veg cover. $52.76$ Tree. $40.76$ S	Shrub: $20\%$ Herb: $45\%$	
Community successional stage:	Mid (herbaceous, shrubs, saplings)	
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)	
Indicators:		
Mudcracks	<ul> <li>Soil development</li> <li>Surface relief</li> </ul>	
☐, Ripples □ Drift and/or debris	Other:	
Presence of bed and bank	Uther:	
	Other:	
Comments: Cantle shee transition to	uplands no clear bench due to aman position throughout tolrainage pattern	ΛE
F workaceous vegetation		15.
Debrik at spediment de	position throughout to out of	
years of		
Floodplain unit:  Low-Flow Channel	Active Floodplain Low Terrace	
GPS point:		ate.
-		
Characteristics of the floodplain unit: Average sediment texture: $C \land \alpha \land \beta < \beta + \beta$		
Average sediment texture: $Coarse \le 1+$ Total veg cover: $15$ % Tree: $35$ % S	Shrub: $\cancel{0}$ % Herb: $\cancel{10}$ %	
Community successional stage:	Mid (harboscoup, shruba, applings)	;
NA Early (herbaceous & seedlings)	Mid (herbaceous, shrubs, saplings)	
Indicators:		
Mudcracks	Soil development	
Ripples	Surface relief	
<ul> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> </ul>	Other:	
Benches	Other:     Other:	
Comments:	Diher:	5
Eucalyptos tiers con		
as understory.		

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance RGP			City/County:	/County:Escondido/San Diego			Sampling Date: 2/18/2019		
Applicant/Owner: City of Escondido		S	state:CA	Sampling Po	oint:E-53	WSP 1.1			
Investigator(s): Lanika Cervantes; W	Section, Town	nship, Range:							
Landform (hillslope, terrace, etc.): hills	lope		Local relief (c	concave, convex,	none):convex		Slope (%	6):15	
Subregion (LRR): <u>C - Mediterranean</u>	California	Lat: 33.	.160676	Long:-	117.089168		Datum:		
Soil Map Unit Name: Visalia sandy lo	oam, 0 to 2 per	cent slopes			NWI classifi	cation:Freshw	ater For	ested/Shrut	
Are climatic / hydrologic conditions on t	he site typical fo	r this time of ye	ear?Yes 🖲	No 🔿 🛛 (I	lf no, explain in I	Remarks.)			
Are Vegetation Soil or H	Hydrology	significantly	v disturbed?	Are "Normal	Circumstances"	present? Yes	s 💿	No 🔿	
Are Vegetation Soil or H	Hydrology	naturally pro	oblematic?	(If needed, ex	xplain any answ	ers in Remarks	s.)		
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	sampling	point locatior	ns, transects	, importan	t featur	es, etc.	
Hydrophytic Vegetation Present?	Yes 💿	No 🔘							
Hydric Soil Present?	Yes 💽	No 🔘	Is the	Sampled Area					
Wetland Hydrology Present?	Yes 💽	No 🔘	within	a Wetland?	Yes 💿	No 🔿			
Remarks:Sample point taken owit	hin OHWM.								

### VEGETATION

	Absolute	Dominant		Dominance Test w	orksheet	:		
	% Cover			Number of Dominan				
1.Salix laseolepis	30	Yes	FACW	That Are OBL, FAC	W, or FA	C: 2	(	(A)
2				- Total Number of Do	minant			
3				Species Across All S	Strata:	2	(	(B)
4.				Percent of Dominan	t Spacias			
Total Cove	r: 30 %			That Are OBL, FAC			0 % (	A/B)
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.				FACW species	30	x 2 =	60	
5.				FAC species	92	x 3 =	276	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum	. 70			UPL species		x 5 =	0	
1.Distichlis spicata	90	Yes	FAC	_ Column Totals:	122	(A)	336	(B)
2.Rumex crispus	2	No	FAC			( )		
3.				Prevalence Inc			2.75	
4.				Hydrophytic Veget	ation Inc	licators:		
5.				X Dominance Tes	st is >50%	, D		
6.				× Prevalence Inde	ex is ≤3.0	1		
7.				Morphological A				ng
8.						n a separate s	,	
Total Cover	92 %			Problematic Hyd	drophytic	Vegetation' (	(Explain)	)
Woody Vine Stratum	//							
1				Indicators of hydric be present.	soil and	wetland hyd	rology n	nust
2								
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 10 % % Cover	r of Biotic C	Crust	%	Present?	Yes 🖲	No 🔿		
Remarks:								

#### SOIL

Profile Des	cription: (Describe t	o the de	pth need	ed to docur	nent the	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			Redox	k Feature	es				
(inches)	Color (moist)	%	Color	r (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-14	10-YR 4/1	90	7.5 YR	4/6	10	С	М	Loamy/Clay	moist soils	
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RN	I=Reduce	ed Matrix, CS	S=Cover	ed or Coat	ed Sand G	rains. <sup>2</sup> Locatio	on: PL=Pore Linir	ng, M=Matrix.
Hydric Soil	Indicators: (Applicable	e to all Ll	RRs, unle	ss otherwise	noted.)			Indicators for	Problematic Hyd	ric Soils:
Histoso	ol (A1)			Sandy Redo	x (S5)			1 cm Muc	k (A9) ( <b>LRR C</b> )	
Histic E	pipedon (A2)			Stripped Ma	atrix (S6)			2 cm Muc	k (A10) ( <b>LRR B</b> )	
Black H	listic (A3)			Loamy Muc	ky Miner	al (F1)		Reduced	Vertic (F18)	
	en Sulfide (A4)			Loamy Gley		. ,			nt Material (TF2)	
	ed Layers (A5) ( <b>LRR C</b>	)	$\times$	Depleted M		,		Other (Ex	plain in Remarks	3)
	luck (A9) ( <b>LRR D</b> )			Redox Dark		( )				
	ed Below Dark Surface	(A11)		Depleted Da		( )		0		
	Oark Surface (A12)			Redox Dep		(F8)			hydrophytic vege	
	Mucky Mineral (S1)			Vernal Pool	s (F9)				ology must be pr	
Sandy	Gleyed Matrix (S4)							unless distur	bed or problema	tic.
Restrictive	Layer (if present):									
Type:										
Depth (ir	nches):							Hydric Soil Pr	esent? Yes 🖲	D No 🔿
Remarks: R	Redox observed in so	oil. Moi	st soils.							

# HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
X Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Ro	oots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils	(C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 💿	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes  No  (includes capillary fringe)	Depth (inches): 2 inches Wet	land Hydrology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monitoring	y well, aerial photos, previous inspections)	, if available:
Remarks:Sediment over laid down salt grass.		

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Cha	nnel Maintenar	nce RGP	City/County:	lscondido/San	Diego	Sampling D	Date:2/18/2019
Applicant/Owner: City of Escondido			_		State:CA	Sampling P	Point:E-53 WSP 1.2
Investigator(s):Lanika Cervantes; W	/illiam Kohn		Section, Tow	nship, Range:	_		
Landform (hillslope, terrace, etc.): hills	slope		Local relief (	concave, conve	x, none):convex		Slope (%):15
Subregion (LRR): C - Mediterranean	California	Lat: <u>33</u>	.160734	Long	g: <u>-117.089245</u>		Datum:
Soil Map Unit Name: Visalia sandy le	oam, 0 to 2 per	cent slopes			NWI classifi	cation:Fresh	water Forested/Shruh
Are climatic / hydrologic conditions on	the site typical fo	r this time of ye	ear?Yes 🖲	No	(If no, explain in F	Remarks.)	
Are Vegetation Soil or	Hydrology	significantly	y disturbed?	Are "Norma	al Circumstances"	present? Ye	es 💿 🛛 No 🔿
Are Vegetation Soil or	Hydrology	naturally pr	oblematic?	(If needed,	explain any answe	ers in Remark	<s.)< td=""></s.)<>
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	sampling	point location	ons, transects	, importar	nt features, etc.
Hydrophytic Vegetation Present?	Yes 🔘	No 🖲					
Hydric Soil Present?	Yes 🔘	No 💿	Is the	Sampled Area			
Wetland Hydrology Present?	Yes 🔘	No 💿		a Wetland?	Yes 🔿	No 🖲	j
Remarks:Sample point taken on h	illslope outside	e of OHWM.					

### VEGETATION

	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Use scientific names.)		Species?		Number of Dominant Species	0	
1.Eucalyptus sp.	25	Yes	UPL	That Are OBL, FACW, or FAC:	0	(A)
2				- Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				<ul> <li>Percent of Dominant Species</li> </ul>		
Total Cove	r: 25 %			That Are OBL, FACW, or FAC:	0.0 %	(A/B)
Sapling/Shrub Stratum						
1				Prevalence Index worksheet:		
2					Multiply by:	-
3				OBL species x 1	= 0	
4.				FACW species x 2	= 0	
5				FAC speciesx 3	= 0	
Total Cover	: %			FACU species x 4	= 0	
Herb Stratum				UPL species 35 x 5	= 175	
1.Bromus sp.	10	Yes	Not Listed	Column Totals: 35 (A)	175	(B)
2					5.00	
3				Prevalence Index = B/A =	5.00	
4				Hydrophytic Vegetation Indicato	rs:	
5.				Dominance Test is >50%		
6.				Prevalence Index is ≤3.0 <sup>1</sup>		
7				<ul> <li>Morphological Adaptations<sup>1</sup> (P</li> <li>data in Remarks or on a se</li> </ul>	vrovide support	ing
8.				Problematic Hydrophytic Vege		2)
Total Cover	: 10 %					')
Woody Vine Stratum						
1				<sup>1</sup> Indicators of hydric soil and wetla be present.	and nydrology	must
2				_		
Total Cover	: %			Hydrophytic		
% Bare Ground in Herb Stratum 90 % % Cover	r of Biotic C	Crust	%	Vegetation Present? Yes	No 🖲	
Remarks: mostly Eucalyptus with little understory.						

#### SOIL

Profile Des	cription: (Describe t	o the de	pth needed to docur	nent the indi	cator or	confirm	n the absence of	indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u> T	ype <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10-YR 3/1	100	N/A				Loamy/Clay	drier soils
				·				
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RN	I=Reduced Matrix, CS	S=Covered or	Coated	Sand G	rains. <sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
Histosci Histic E Black H Hydrog Stratifie 1 cm M Deplete Sandy Sandy	Indicators: (Applicable of (A1) Epipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) (LRR C uck (A9) (LRR D) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):	·)	Sandy Redo: Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da	x (S5) atrix (S6) ky Mineral (F ved Matrix (F2 atrix (F3) & Surface (F6) ark Surface (F6) ressions (F8)	2)		1 cm Muc 2 cm Muc Reduced Red Pare Other (Ex <sup>3</sup> Indicators of wetland hydr	Problematic Hydric Soils <sup>3</sup> k (A9) (LRR C) k (A10) (LRR B) Vertic (F18) nt Material (TF2) plain in Remarks) hydrophytic vegetation and ology must be present, bed or problematic.
Туре:								
Depth (ir							Hydric Soil Pr	esent? Yes 🔿 No 🖲
′ Remarks: №	lo redox observed.							

## HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	] Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	] Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) 🗍 Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	] Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed	Soils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 💿	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Present? Yes O No 💿
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well aerial photos, previous inspec	
Describe Recorded Data (stream gauge, morntoning		
Demerte M. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Remarks:No hydrology indicators. Sample poin	nt taken approximately 5 feet ni	gner than 1.1.
US Army Corps of Engineers		

			PART I. MA	INTENANCE	FACILITY INFO	ORMATION			
Facility Name	Reidy Creel	k- Morning Vi	ew		Facility ID	E-54			
Location	Reidy Creel	<pre>k/Centre City</pre>	Parkway						
Latitude <sup>1</sup>	33.136602	Longitu	ıde <sup>1</sup> -117.0	94876	Maintenance	e Frequency (y	vears)	Annual	у
Maintenance Fa	acility Type	Outlets	•		Lining Type	Earthen			
Proposed Maint Activities	enance	trees/shrubs Access from Equipment w putlet and cre Use of both n	as needed with cul-de-sacs or ill be staged or eate pilot chan nanual and me	handtools. disturbed area hank and wit hel downstrea chanical hand	c outlet location as adjacent to t hin OHWM to a	he creek. access outlet. ut and remove	Use of back	vegetation; trim khoe or excavat vegetation.	-
Will work occur	when water	is in the char	inel?	Υ□		es, will dewate diversion be		Y	
			PA	RT II. SURVE	Y INFORMATIO	ON			
Surveyors	Lanika Ce	ervantes and	William Kohn			Date of Su	urvey	2/18/2019	
Was water in th	e channel at	the time of the	ne Y	N N	Hydrolog	gy Type <sup>2</sup> F	• □ I	⊠ E 🗆	o 🗆
survey? Nearest Named	Waterbody	Reidy Cre	ek				r Eorested/S	Shrub Wetland a	and Riverine
NRCS Soils	1			reant clanas a	and Visalia san				
	Ŭ	-							
Section II.a. Su									
USACE 404/RV	VQCB 401 J	urisdiction	Y [	N 🗆	USACE 404 R	Regulated Activ	vity	Y 🛛 N	
USACE Nonwe Waters Present		Y 🗆 N	USAC Wetlar Preser	nd Waters	Y 🖾 N	Datap Datap	oint(s)	Y 🛛 N	
Associated Data	asheet(s)	Wetla	and Sample Po	ints 1.1, 1.2, 2	2.1, and 2.2; OF	HWM Data She	eet		
Summary of Aquatic	Type of Juris	dictional Water		Habita	t Description <sup>3</sup>			elineated within ance Footprint <sup>4</sup>	Impact Tier⁵
Habitats	Wetland	Waters			V/E			0.003	
(Waters of the U.S. and	Wetland	Waters			V/E			0.011	II
State)						ΤΟΤΑ	L	0.015	
Section II.b. Su		CDFW Water	s of the State	Only Within	the Maintenan	ce Facility			
CDFW 1600 Ju Beyond USACE		Υ⊠	N 🗌	CDFW Reg	ulated Activity		Y 🛛 I		
Summary of Aquatic	Type of Jur	isdictional Wate	ər	Habitat	Description <sup>3</sup>			lineated within nce Footprint <sup>4</sup>	Impact Tier⁵
Habitats	· · · · · · · · · · · · · · · · · · ·	n Extent			V/E			0.003	l I
(Waters of the State Only)	Riparia	n Extent			V/E	TOTAL		0.015	II
• /								0.018	
Section II.c. Su				es within Stu		Adjacent to	the Mainter	nance Facility	
Vegetation Co	ommunities Types	and Cover	Maintenance	e 100-Foot	-				
Riparian and W			Footprint	Buffer	Total		Dominant/S	Significant Spe	cies
Coastal and V		ater Marsh	-	0.076	0.076	Typha dor	mingensis		
Disturbed So. Riparian Fores		-Willow	0.008	6.725	6.733			ith Populus frer cattered Palms	nontii and
So. Cottonwoo	od-Willow Ri	parian Fores	0.003	1.528	1.531	Populus fi	remontii and	l Salix lasiolepis	

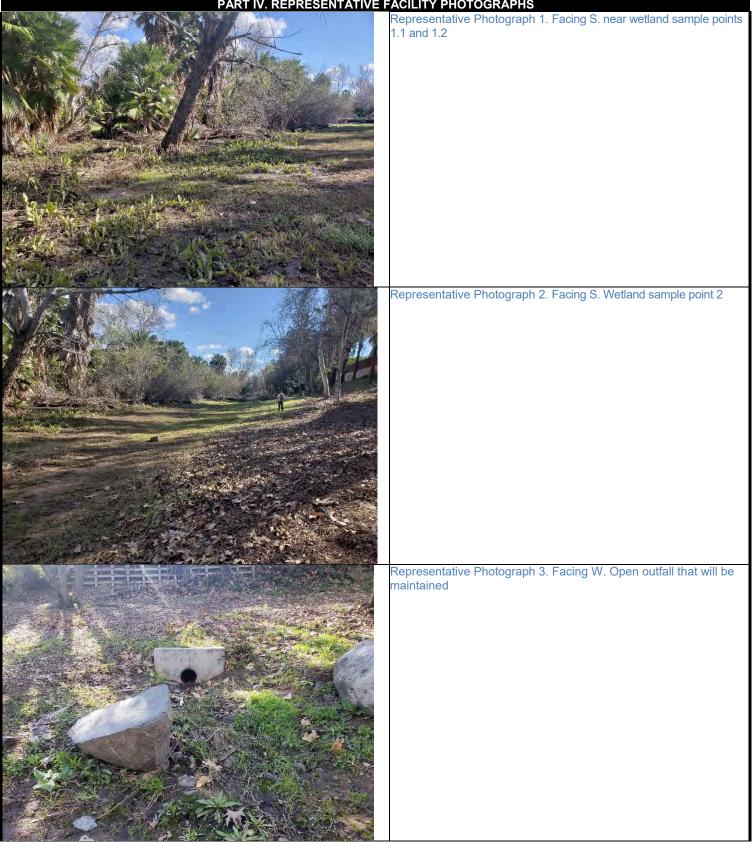
E-54 - Reidy Creek- Morning View

Jpland						
Non-Native Woodland	0.00	)1	2.4	00	2.401	Washingtonia robusta and ornamentals
Non-Native Grassland	0.00	)7	8.6	697	8.704	Cynodon dactylon
Subtotal Upland	0.00	08	11.	097	11.105	5
Other Land Cover Types		L.				
Disturbed habitat	-		0.5	585	0.585	
Urban/Developed	-			274	11.274	ļ.
Subtotal Other Land Cover Types	-		11.	859	11.859	9
<b>GRAND TOTAL<sup>6</sup></b>	0.01	19	31.	643	31.662	2
Section II.d. Threatened/Endangered/	Special S	tatus S	pecies	s Withii	n the Vicinity	ty of the Maintenance Facility
Special status species observed during 2 field surveys within the Facility Buffer	2019	None				
Threatened/Endangered species historic known to occur within the Facility Buffer		N/A				
Threatened/Endangered species having Designated Critical Habitat within the Fa Buffer	cility	None				
Threatened/Endangered species histori known to occur within 1.0 mile of the Fa Buffer	acility	Coastal Least Be Swainsc Western	Califor ell's vir on's ha vyellov	rnia gna eo ( <i>Vire</i> wk ( <i>Bu</i> v-billed	eo bellii pusill teo swainson cuckoo (Coc	olioptila californica califorica) (FT, SSC) illus) (FE, SE)
Other non-listed special status species historically known to occur within the Fac Buffer	cility	None				
Other non-listed special status species historically known to occur within 1.0 mil- the Facility Buffer	e of	Southern Orange- Coast ho Burrowin White-fa Pallid ba Dulzura Townsen Western Pockete Big free-	n Califi throate orned I ng owl aced ib at ( <i>Anti</i> pocke nd's bi a yellov d free- tailed	ornia le ed whip izard ( <i>I</i> ( <i>Athen</i> is ( <i>Plag</i> <i>rozous</i> ( t mouse g-earec v bat ( <i>L</i> tailed b bat ( <i>N</i> y	gless lizard (, tail (Aspodps Phrynosoma I e cunicularia) gadis chihi) (V pallidus) (SS e (Chaetodipu I bat (Coryno asiurus xanth pat (Nyctinom	WL) SC) ous californicus femoralis) (SSC) orhinus townsendii) (SSC) thinus) (SSC) nops femorosaccus) (SSC) nacrotis) (SSC)
Are species surveys recommended?		Y 🛛	Ν		If Yes, for what	Least Bell's vireo and San Diego Ambrosia
Will work occur in the breeding season (	Feb-Augu	st)?				Y N D
			DDITI			

The channel starts at a large box culvert and flows south. Channel is earthen for the full length with large amounts of wrack and sediment deposition observed through the channel. Flowing water within the low-flow channel at the time of the survey. Channel is heavily disturbed, dominated by non-native vegetation and only sparse patches of native tree vegetation present. Additionally, limited understory and urban encampments and trash evident throughout the channel. All wetlands are contained within the OHWM.

#### Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).







Arid West Ephemeral and Intermit	tent Streams OHWM	
Project: ('if of Escandido Project Number: Stream: Reid- (reek Investigator(s):	Date: 2./18/19 Town: Escandido Photo begin file#:	Time: 2:00 pm State: (A Photo end file#:
$Y \square N \square$ Do normal circumstances exist on the site?	Location Details:	54
Y $\square / N \square$ Is the site significantly disturbed?	Projection: Coordinates: Sec S	Datum:
Potential anthropogenic influences on the channel syst Creek is surrounded by a po Encampments and lots of	em: rtment completes	144 <u>-</u>
Brief site description: Usage by transients and Sparst vegetated with tree Disturb	dump area as l canopy, mostly	ots of trash. herbaceas understory
Checklist of resources (if available):Aerial photographyStream gagDates:Gage numTopographic mapsPeriod of rGeologic mapsHistoryVegetation mapsResultSoils mapsMost rRainfall/precipitation mapsGage I	je data ber:	arges sis 25-year events and the
Hydrogeomorphic F	Floodplain Units	
Active Floodplain	OHWM Paleo Char	nnel
Procedure for identifying and characterizing the flood	lplain units to assist in id	entifying the OHWM:
<ol> <li>Walk the channel and floodplain within the study area vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is character         <ul> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth floodplain unit.</li> </ul> </li> </ol>	Draw the cross section and istic of one of the hydroge	l label the floodplain units. comorphic floodplain units.
<ul> <li>C) Identify any indicators present at the location.</li> <li>4. Repeat for other points in different hydrogeomorphic for the other points in different hydrogeomorphic for the indicators. Record</li> <li>Mapping on aerial photograph</li> <li>Digitized on computer</li> </ul>		cross section.

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

0 cm 0 in

L. M. L. PST	· . :
other Thrace West	
	••••••••••••••••••••••••••••••••••••••
Break in bank slope	
Other:	
and invegetation.	
londer all	
Ich liciating a	
Active Fleedalein Levy Terror	<b>.</b> 1.53
	₽ 14.41¢.
	aa tala
	ABB ( A
Shrub:% Herb:%	a Ale Artesta
Mid (herbaceous, shrubs, saplings)	
Late (herbaceous, shrubs, mature trees)	
	alen geleene
Soil development	: 1
Other:	
Other:	
nix stratch of reek, the law flo	L) and a
ina water and is invertated	and the second second
which have a contraction of the standard and a contraction of the standard	
U	
U	
	Break in bank slope     Other:     Other:     Other:     Other:     Other:     Other:     Active Floodplain     Low Terrace

	Low-Flow Channel	Active Floodplain  Low Terrace	
GPS point:	÷		
Total veg cover: Community success	exture: <u>Medium sa</u> 20_% Tree:20_%	Shrub: $6^{\circ}$ Herb: $6^{\circ}$ % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	· ·
Indicators:			
Mudcracks Ripples Drift and/c		Soil development Surface relief Other:	1 - 1 I II
Presence o	of bed and bank	Other:	Ŀ
Comments:	ted water through	ghait. Prainage patterns and lo	t S
de de	Calul bransitik	on in slope to uplands, but n vegetation at other limits	
		n veyetanon un o	
Floodplain unit:			
Floodplain unit: GPS point:			
GPS point: Characteristics of t	Low-Flow Channel	Active Floodplain	and parts
GPS point: Characteristics of t Average sediment Total veg cover: S	Low-Flow Channel the floodplain unit: texture: <u>Coache saa</u> 5 % Tree: <u>25</u> %	Active Floodplain	
GPS point: Characteristics of t Average sediment Total veg cover: S Community succes NA	Low-Flow Channel the floodplain unit: texture: <u>Coache saa</u> 5 % Tree: <u>25</u> %	Active Floodplain	stant and stant and stant and stanta
GPS point: Characteristics of t Average sediment Total veg cover: S Community succes NA Early (her Indicators:	Low-Flow Channel the floodplain unit: texture: <u>Coace coac</u> 5_% Tree: <u>25_</u> % ssional stage: baceous & seedlings)	Active Floodplain X Low Terrace Shrub: <u>%</u> Herb: <u>30</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	and a para Maria da Maria da Maria da
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her	Low-Flow Channel the floodplain unit: texture: <u>Coace coac</u> 5_% Tree: <u>25_</u> % ssional stage: baceous & seedlings)	Active Floodplain  Low Terrace Shrub: <u>%</u> % Herb: <u>30</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief	
GPS point: Characteristics of t Average sediment : Total veg cover: Community succes    NA    Early (her In dicators:    Mudcrack    Ripples    Drift and/	Low-Flow Channel the floodplain unit: texture: <u>Coarse coar</u> 5 % Tree: <u>25</u> % ssional stage: baceous & seedlings) ts for debris	Active Floodplain  Low Terrace Shrub: % Herb: 30 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:	
GPS point: Characteristics of t Average sediment : Total veg cover: Community succes    NA    Early (her In dicators:    Mudcrack    Ripples    Drift and/	Low-Flow Channel the floodplain unit: texture: <u>Coactor coac</u> 5 % Tree: <u>25</u> % ssional stage: baceous & seedlings)	Active Floodplain  Low Terrace Shrub: <u>%</u> % Herb: <u>30</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief	

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Cha	City/County:Escondido/San Diego			Sampling Date: 2/18/2019				
Applicant/Owner: City of Escondido			State:CA	Sampling P	oint:E-54	WSP 1.1		
Investigator(s): Lanika Cervantes; W	Section, Township, Range:							
Landform (hillslope, terrace, etc.): drai	Local relief (concave, convex, none): concave				Slope (%):1			
Subregion (LRR): C - Mediterranean	140324	Long	-117.096215		Datum:			
Soil Map Unit Name: Grangeville fine sandy loam, 0 to 2 percent slopes NWI classification: Freshwater Forested/Shru							rested/Shrut	
Are climatic / hydrologic conditions on	the site typical for	r this time of ye	ear?Yes 🖲	No 🔿	(If no, explain in I	Remarks.)		
Are Vegetation Soil or	disturbed?	Are "Norma	Circumstances"	present? Ye	es 💽	No 🔿		
Are Vegetation Soil or	oblematic?	(If needed, o	explain any answ	ers in Remark	(s.)			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?	Yes 💿	No 🔘						
Hydric Soil Present? Yes  No		No 🔘	Is the S	Sampled Area				
Wetland Hydrology Present? Yes 💿 No 🔘		within	a Wetland?	Yes 🖲	No ()			
Remarks:Sample point taken with	in OHWM.							

#### VEGETATION

	Absolute	Dominant		Dominance Test w	orksheet	:		
Tree Stratum (Use scientific names.)	% Cover	Species?		Number of Dominar				
1.Populus fremontii	20	Yes	FAC	That Are OBL, FAC	W, or FAC	C: 4		(A)
2.Washingtonia robusta	15	Yes	FACW	Total Number of Do	minant			
3				Species Across All	Strata:	4		(B)
4.				Percent of Dominan	t Spacias			
Total Cover Sapling/Shrub Stratum	r: 35 %			That Are OBL, FAC			)%	(A/B)
<u></u>				Prevalence Index	vorkshee	et:		
2.				Total % Cover of: Multiply by:				
3.				OBL species		x 1 =	0	
4.				FACW species	15	x 2 =	30	
5.				FAC species	60	x 3 =	180	
Total Cover	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
1.Distichlis spicata	30	Yes	FAC	Column Totals:	75	(A)	210	(B)
2.Rumex crispus	10	Yes	FAC			( )		
3.				Prevalence In			2.80	
4.				Hydrophytic Veget				
5.				Dominance Tes	st is >50%	)		
6.				Prevalence Index	ex is ≤3.0	1		
7.				Morphological A				ng
8.						n a separate s	,	
Total Cover	40 %			- Problematic Hy	aropnytic	vegetation" (	Explain	)
Woody Vine Stratum	10 /0			1				
1				<sup>1</sup> Indicators of hydric be present.	c soil and	wetland hydi	ology r	nust
2								
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 60 % % Cover	of Biotic C	Crust	%	Present?	Yes 🖲	No 🔿		
Remarks:								

#### SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-14	10-YR 3/2	95	Gley 1 2.5/N	5	С	PL	Loamy/Clay	hydrogen odor		
Image:					  					
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4)						unless disturbed or problematic.				
Restrictive	Layer (if present):									
Type:										
Depth (in	iches):						Hydric Soil Pr	resent? Yes 💿 No 🔿		
Remarks:										
HYDROLOGY										
Wetland Hydrology Indicators:										
Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required)										
Surface Water (A1)							Water Marks (B1) (Riverine)			

Wetland Hydrology Indicators:							
Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)						
X Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)						
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )						
X Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )						
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)						
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li	ving Roots (C3) Ty-Season Water Table (C2)						
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)						
Surface Soil Cracks (B6) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)						
Inundation Visible on Aerial Imagery (B7)	ed Soils (C6) Shallow Aquitard (D3)						
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes  No  Depth (inches): 1 inch							
Water Table Present? Yes No      No      Depth (inches):							
Saturation Present? Yes      No      Depth (inches): surface							
(includes capillary fringe)	Wetland Hydrology Present? Yes  No						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:Multiple hydrology indicators.							

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Cha	nnel Maintena	nce RGP	City/County:Escondido/San Diego			Sampling Date: 2/18/2019		
Applicant/Owner: City of Escondido					State:CA	Sampling P	oint:E-54	WSP 1.2
Investigator(s):Lanika Cervantes; W	/illiam Kohn		Section, Towr	nship, Range:	_			
Landform (hillslope, terrace, etc.): hills		Local relief (c	oncave, conve	x, none):convex		Slope (%	b):15	
Subregion (LRR): C - Mediterranean	California	Lat: 33.	.140339	Long	g:-117.096366		Datum:	
Soil Map Unit Name: Grangeville fine sandy loam, 0 to 2 percent slopes NWI classification: Freshwater Forested/Shr								
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 🔿							No 🔿	
Are Vegetation Soil or	Hydrology	naturally pr	oblematic?	(If needed,	explain any answe	ers in Remark	ks.)	
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	sampling	point locati	ons, transects	, importar	nt featur	es, etc.
Hydrophytic Vegetation Present?	Yes 🔘	No 💿						
Hydric Soil Present?	Yes 🔘	No 💿	Is the	Sampled Area				
Wetland Hydrology Present?	Yes 🔘	No 💿		a Wetland?	Yes 🔿	No 🖲	)	
Remarks:Sample point taken on h	Remarks:Sample point taken on hillslope outside of OHWM.							

# VEGETATION

Tree Stratum (Use scientific names.)	Absolute	Dominant Species?		Dominance Test worksheet:		
	20	Yes	UPL	Number of Dominant Species	( • )	
1.Eucalyptus sp.		res	UPL	That Are OBL, FACW, or FAC: 0	(A)	
2				- Total Number of Dominant		
3				Species Across All Strata: 2	(B)	
4				<ul> <li>Percent of Dominant Species</li> </ul>		
Total Cove	r: 20 %			That Are OBL, FACW, or FAC: 0.0 %	(A/B)	
Sapling/Shrub Stratum						
1				Prevalence Index worksheet:		
2				Total % Cover of: Multiply by:		
3.				OBL species x 1 =	0	
4				FACW species x 2 =	0	
5.				FAC species x 3 =	0	
Total Cover	: %			FACU species x 4 =	0	
Herb Stratum				UPL species $30 \times 5 = 1$	50	
1.Cynodon dactylon	10	Yes	Not Listed	Column Totals: 30 (A) 1	50 (B)	
2					00	
3					.00	
4				Hydrophytic Vegetation Indicators:		
5.				Dominance Test is >50%		
6				Prevalence Index is ≤3.0 <sup>1</sup>		
7.				<ul> <li>Morphological Adaptations<sup>1</sup> (Provide suppletermine)</li> <li>data in Remarks or on a separate sheet</li> </ul>		
8.						
Total Cover	10 %			Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	piain)	
Woody Vine Stratum	10 /0					
1				<sup>1</sup> Indicators of hydric soil and wetland hydrolo be present.	gy must	
2						
Total Cover	: %			Hydrophytic		
% Bare Ground in Herb Stratum     90 %     % Cover of Biotic Crust     %     Vegetation       %     %     %     %     %						
Remarks: mostly Eucalyptus with little understory.						

# SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Re	dox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remai	rks		
0-13	10 YR 4/4	100	N/A				Loamy/Clay	drier soils			
1							2				
'Type: C=C	Concentration, D=Depl	letion, RN	I=Reduced Matrix,	CS=Covered	d or Coate	d Sand G		on: PL=Pore Lining, M=	<u>^</u>		
Hydric Soil	Indicators: (Applicabl	le to all L	RRs, unless otherw	ise noted.)			Indicators for	Problematic Hydric Soi	ls:		
Histosol (A1) Sandy Redox (S5)								k (A9) ( <b>LRR C</b> )			
	pipedon (A2)			Matrix (S6)				k (A10) ( <b>LRR B</b> )			
	listic (A3)			lucky Minera	( )		Reduced Vertic (F18)				
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						Red Pare	nt Material (TF2)				
Stratifie	ed Layers (A5) ( <b>LRR C</b>	<b>C</b> )	Depleted	Matrix (F3)			Other (Ex	plain in Remarks)			
1 cm M	luck (A9) ( <b>LRR D</b> )		Redox D	ark Surface	(F6)						
Deplete	ed Below Dark Surface	e (A11)	Depleted	Dark Surfac	e (F7)						
Thick D	ark Surface (A12)		Redox D	epressions (	F8)		<sup>3</sup> Indicators of hydrophytic vegetation and				
Sandy	Mucky Mineral (S1)		Vernal P	ools (F9)			wetland hydrology must be present,				
Sandy	Gleyed Matrix (S4)						unless disturbed or problematic.				
Restrictive	Layer (if present):										
Type:											
Depth (ir	nches):						Hydric Soil Pr	esent? Yes 🔿	No 💿		
Remarks: N	No redox observed.										

# HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)	
Surface Water (A1)	Water Marks (B1) (Riverine)	
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) T Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed	Soils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)	
Field Observations:		
Surface Water Present? Yes O No 💿	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes O No •	Depth (inches):	Wetland Hydrology Present? Yes 🔿 No 💿
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	a well aerial photos, previous inspec	
Describe recorded Data (stream gauge, monitoring	g wen, aeriai priotos, previous inspec	
		1 .1 1 1
Remarks:No hydrology indicators. Sample po	int taken approximately 3 feet hi	gher than 1.1.
US Army Corps of Engineers		

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Chann	City/County:E	ity/County:Escondido/San Diego			Sampling Date:2/18/2019			
Applicant/Owner: City of Escondido					State:CA	Sampling Po	oint:E-54	WSP 2.1
Investigator(s): Lanika Cervantes; Wil	liam Kohn		Section, Towr	Section, Township, Range:				
Landform (hillslope, terrace, etc.): draina	Local relief (c	oncave, convex,	none):none		Slope (%	%):1		
Subregion (LRR): C - Mediterranean C	.132379	Long:	-117.094320		Datum:			
Soil Map Unit Name: Visalia sandy loa	m, 2 to 5 per	cent slopes			NWI classif	cation:Freshw	ater Fo	rested/Shrut
Are climatic / hydrologic conditions on the	e site typical fo	r this time of ye	ear?Yes 🖲	No	(If no, explain in I	Remarks.)		
Are Vegetation Soil or Hy	drology	significantly	v disturbed?	Are "Normal	Circumstances"	present? Yes	s 💽	No 🔿
Are Vegetation Soil or Hy	drology	naturally pro	oblematic?	(If needed, e	explain any answ	ers in Remarks	s.)	
SUMMARY OF FINDINGS - Att	ach site ma	ap showing	sampling	point locatio	ns, transects	, importan	t featur	res, etc.
Hydrophytic Vegetation Present?	Yes 💽	No 🔘						
Hydric Soil Present?	Yes 💽	No 🔘	Is the	Sampled Area				
Wetland Hydrology Present?	within	a Wetland?	Yes 🛈	No 🔿				
Remarks:Sample point taken within	OHWM.							

# VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?		Dominance Test w	orksheet	t:		
	<u>% Cover</u> 10	Yes		Number of Dominar				( • )
1.Populus fremontii			FAC	That Are OBL, FAC	W, or FA	C: 3		(A)
2.Salix laseolepis	20	Yes	FACW	- Total Number of Do	minant			
3				Species Across All	Strata:	5		(B)
4				Percent of Dominar	nt Snecies	2		
Total Cover Sapling/Shrub Stratum	r: 30 %			That Are OBL, FAC			) % (	A/B)
1.				Prevalence Index	workshee	et:		
2.				Total % Cover	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.				FACW species	20	x 2 =	40	
5.				FAC species	20	x 3 =	60	
Total Cover	%			FACU species	10	x 4 =	40	
Herb Stratum	,,,,			UPL species	40	x 5 =	200	
1.cynodon dactylon	40	Yes	Not Listed	Column Totals:	90	(A)	340	(B)
2.Rumex crispus	10	Yes	FAC			( )		
3. Melilotus albus	10	Yes	FACU	Prevalence In	dex = B/I	A =	3.78	
4.				Hydrophytic Vege	tation Inc	licators:		
5.				Dominance Tes	st is >50%	, 0		
6.				Prevalence Ind	ex is ≤3.0	1		
7				Morphological data in Rem		ns <sup>1</sup> (Provide s n a separate s		ng
8				- Problematic Hy			,	)
Total Cover Woody Vine Stratum	60 %			,				, ,
1				<sup>1</sup> Indicators of hydrid	c soil and	l wetland hyd	rology r	nust
2.				be present.				
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum $40 \%$ % Cover	of Biotic C	Crust	%	Present?	Yes 🖲	No 🔿		
Remarks: Area supports wetland and nonwetland ve	egetation.			<u>.</u>				

# SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10 YR 3/2	95	Gley 1 2.5/N	5	<u>C</u>	PL	Loamy/Clay	hydrogen odor	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histic Epipedon (A2)       Stripped Matrix (S6)       2 cm Muck (A10) (LRR B)         Black Histic (A3)       Loamy Mucky Mineral (F1)       Reduced Vertic (F18)         ¥ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Red Parent Material (TF2)         Stratified Layers (A5) (LRR C)       Depleted Matrix (F3)       Other (Explain in Remarks)									
Deplete Thick D Sandy Sandy	luck (A9) ( <b>LRR D</b> ) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	(A11)	Redox Dark Depleted Da Redox Depr Vernal Pools	ark Surfa essions	ace (F7)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Type:	Layer (if present):						Ukadaia Cail Da		
Depth (ir Remarks:	ncnes):						Hydric Soil Pro	esent? Yes 💿 No 🔿	
Nomains.									
HYDROLO									
-	ydrology Indicators:								
Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required)									
Surface	e Water (A1)		Salt Crust	. ,			Wate	er Marks (B1) ( <b>Riverine</b> )	
High W	/ater Table (A2)		Biotic Crust (B12)			ment Deposits (B2) (Riverine)			

Wetland Hydrology Indicators:							
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)					
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)					
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )					
Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )					
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	X Drainage Patterns (B10)					
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)					
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)					
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (C6)	Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes O No 🖲	Depth (inches):						
Water Table Present? Yes O No (	Depth (inches):						
Saturation Present? Yes No ( (includes capillary fringe)	Depth (inches): Wetland Hy	drology Present? Yes 💿 No 🔿					
	ng well, aerial photos, previous inspections), if availa	able:					
Remarks:vegetation laying down flat. severa	hydrology indicators.						

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance RGP	City/County:Esc	City/County:Escondido/San Diego			Sampling Date: 2/18/2019		
Applicant/Owner:City of Escondido		Stat	e:CA	Sampling Point:	E-54 WSP 2.2		
Investigator(s): Lanika Cervantes; William Kohn	Section, Towns	hip, Range:					
Landform (hillslope, terrace, etc.): hillslope	Local relief (co	ncave, convex, no	ne):convex	Slo	ope (%):5		
Subregion (LRR).C - Mediterranean California	t: 33.132292	Long:-11	7.094389	Datu	um:		
Soil Map Unit Name: Visalia sandy loam, 2 to 5 percent slop	bes		NWI classifica	ation:Freshwate	r Forested/Shruk		
	e of year? Yes <ul> <li>cantly disturbed?</li> </ul>	<u> </u>	o, explain in Re cumstances" pi	emarks.) resent? Yes 🖲	No 🔿		
Are Vegetation Soil Soil or Hydrology natura	Illy problematic?	(If needed, expl		,	atures, etc.		
Hydrophytic Vegetation Present?     Yes     No       Hydric Soil Present?     Yes     No	Is the Sa	ampled Area	-				
Wetland Hydrology Present?         Yes         No         Image: Comparison of the second se		Wetland?	Yes 🔘	No 🖲			

# VEGETATION

Tree Stratum (Use scientific names.)	Absolute	Dominant Species?		Dominance Test worksheet:			
1.Ornamental tree (unknown)	15	Yes	NI	Number of Dominant Species	0		( • )
	15	105		That Are OBL, FACW, or FAC:	0		(A)
2				- Total Number of Dominant			
3				Species Across All Strata:	4		(B)
4				Percent of Dominant Species			
Sapling/Shrub Stratum	r: 15 %			That Are OBL, FACW, or FAC:	0.0	%	(A/B)
				Prevalence Index worksheet:			
1				Total % Cover of:	Multiply b		
2					1 =	0.0	
3							
4					2 =	0	
5				-	3 =	0	
Total Cover Herb Stratum	%				4 =	0	
	40	V		UPL species 95 x	5 =	475	
1. <i>Hirshfeldia incana</i>	40	Yes	Not Listed	Column Totals: 95 (A	N)	475	(B)
2.Hordeum murinum	20	Yes	Not Listed	Prevalence Index = B/A =		5.00	
3.Erodium sp	15	Yes	Not Listed	Hydrophytic Vegetation Indica		5.00	_
4.Bromus diandrus	5	No	Not Listed	Dominance Test is >50%	liors.		
5							
6				Prevalence Index is ≤3.0 <sup>1</sup>	(5		
7				<ul> <li>Morphological Adaptations<sup>1</sup></li> <li>data in Remarks or on a</li> </ul>			ng
8				Problematic Hydrophytic Ve		,	)
Total Cover	80 %				gotation (E	лріант	,
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and we	atland hydro		nuet
1				be present.		Jogy i	nusi
2							
Total Cover	: %			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum       20 %       % Cover of Biotic Crust       %       Present?       Yes O       No •							
Remarks: mostly nonnative weeds along hillslope							

# SOIL

Profile Des	cription: (Describe	to the depth	needed to docur	nent the ind	dicator o	or confirn	n the absence of indicators.)				
Depth	Matrix			Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks				
0-16	10 YR 4/4	100					Loamy/Clay				
								—			
<sup>1</sup> Type: C=C	Concentration, D=Dep	letion, RM=R	educed Matrix, CS	S=Covered of	or Coate	d Sand G	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils <sup>3</sup> :											
Histosol (A1) Sandy Redox (S5)					1 cm Muck (A9) (LRR C)						
Histic Epipedon (A2)						2 cm Muck (A10) ( <b>LRR B</b> )					
Black Histic (A3) Loamy Mucky Mineral (F1)							Reduced Vertic (F18)				
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						Red Parent Material (TF2)					
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)				•		Other (Explain in Remarks)					
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)					,						
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8)						<sup>3</sup> Indicators of hydrophytic vegetation and					
	Mucky Mineral (S1)		Vernal Pool		))		wetland hydrology must be present,				
	Gleyed Matrix (S4)			3 (1 3)			unless disturbed or problematic.				
	Layer (if present):										
Type:	Layer (il present).										
Depth (ir	nches):						Hydric Soil Present? Yes No (				
Remarks:	·						•				
HYDROLO	DGY										
Wetland Hy	/drology Indicators:										

Weitalia Hydrology Indioators.							
Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)						
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)						
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)						
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )						
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)						
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir	ng Roots (C3) Dry-Season Water Table (C2)						
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)						
Surface Soil Cracks (B6) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)						
Inundation Visible on Aerial Imagery (B7)	Soils (C6) Shallow Aquitard (D3)						
Water-Stained Leaves (B9) Other (Explain in Remarks)	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):	Wetland Hydrology Present? Yes O No 💿						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:						
Remarks:No hydrology indicators within this area. Sample point approximately	v 2 feet higher than 2.1.						
indicators within and a car bumple point approximator.							

			P	ART I.	MAIN	ITEN.	ANCE	FAC		OR	MAT	ION							
Facility Name	HARRF							F	acility ID	E	E-55								
Location	Citracad	o Par	kway/Avenu	ie del [	Diablo														
Latitude <sup>1</sup>	33.105	561	Longitude <sup>1</sup>	-1	17.11	5978		Μ	aintenance	e F	reque	ency (y	ears	s)		A	nnua	lly	
Maintenance Facil	ity Type		Channel					Li	ning Type		Concr	ete						-	
Proposed Mainten Activities		stru Equ	nove accum cture ipment will t / need to ha	oe stag	ed on	deve	eloped	getati area	on within C s adjacent	Con to	ncrete chanr	Chan nel.			tenano	ce of s	servic	eable	
Will work occur wh	ien water	r is in	the channel	?	Y	$\boxtimes$	Ν					dewate e need	-	or wa	ater	Y [		N	]
					PAR	T II. S	SURVE	ey in	FORMATI	ON									
Surveyors Lar	nika Cerv	antes	s and Willian	ו Kohn							Date	e of Su	irve	y		2/26	6/201	9	
Was water in the c survey?	hannel a	t the	time of the		Y	$\boxtimes$	Ν		Hydrolog	ду -	Type <sup>2</sup>	F	<b>&gt;</b>			Е	$\boxtimes$	0 [	
Nearest Named W	/aterbody	Es	scondido Cr	eek					NWI Ind	ex	River	rine							
NRCS Soils Visal	ia sandy	loam	, 2 to 5 perc	ent slo	pes														
Section II.a. Sum	mary of	USA	CE/RWQCB	/CDFV	/ Wat	ers o	f the l	J.S. a	nd State	Wit	thin tl	he Ma	inte	nanc	e Faci	lity			
USACE 404/RWQ				Y		Ν			ACE 404 F						Y Onl	y Tem		⊠ ry dive regula	
USACE Nonwetlar Waters Present	nd	Y [	N C		SACE aters I			Y	□ N	$\boxtimes$		Datap Taken		(s)	Y		Ν	$\square$	
Associated Datash	neet(s)																		
Summary of Aquatic Habitats	Type of J	urisdi	ctional Water				Habit	at Des	cription. <sup>3</sup>				Acres Delineated within Maintenance Footprint <sup>4</sup>				Imp	oact Tier⁵	
(Waters of the U.S. and State)	Nonw	etlan	d Waters					V	C			TOTAL			0.1				IV
Section II.b. Sum	marv of	CDF	W Waters o	f the S	tate C	Dnlv V	Nithin	the	Maintenan	ice					0.1	00			
CDFW 1600 Jurisdiction Beyon USACE Waters			Y 🛛 N				egulate					,	Y	$\boxtimes$	Ν				
Summary of Aquatic Habitats	Type of J	urisdi	ctional Water				Habit	at Des	cription <sup>3</sup>						Delinea enance		· .	Im	pact Tier⁵
(Waters of the	Chan	nel B	ank					V	/C						0.1	07			IV
State Only)				•								TOTAL			0.1	07			
Section II.c. Sum	mary of	Vege	tation Com							d A	djace	ent to	the	Main	tenan	ce Fa	cility		
Vegetation Com		s and	<b>RA</b> = <sup>1</sup> · 1		res w	ithin	Study	Area	16		_								
Cover T			Mainter Footp		100-	Foot	Buffe	r	Total				Dor	ninan	ıt/Sigı	nifica	nt Sp	ecies	
Riparian and Wetl				-				1									- 14		
Southern Willow			-			0.41		_	0.417		_	x lasio			ix lae	/igata			
Coast Live Oak			-			0.28			0.285			ercus a	<u> </u>		nd Co	livelas	iolar	0	
So. Cottonwood- Forest						0.29			0.294		Pop	ulus fr	emo	лш а		iix ias	loiepi	5	
Subtotal Ripariar	n and We	tland	-			0.99	95		0.995										
Upland Non-native Gras	eland		-		1	0.17	'1		0.171										
	ubtotal U	pland				0.17			0.171										
0	and the of	Junu				0.17	1		0.171										

# City of Escondido Channel Maintenance RGP – Facility Summary Other Land Cover Types

- F-	55	- 1	HA	۱R	?R	F

Julei Lanu Cover Types							
Urban/Developed	0.114		2.256		2.370		
Subtotal Other Land Cover Types	0.114		2.256	;	2.370		
GRAND TOTAL <sup>6</sup>	0.114		3.422		3.536		
Section II.d. Threatened/Endange		Status	Specie	s Wit	hin the Vicinity of	f the Maintenance Facility <sup>7</sup>	
field surveys within the Facility Buff		None					
Threatened/Endangered species hi known to occur within the Facility B		N/A					
Threatened/Endangered species ha Designated Critical Habitat within th Buffer		None					
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer		Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC)					
Other non-listed special status spec historically known to occur within th Buffer		None					
Other non-listed special status spec historically known to occur within 1. the Facility Buffer		Summe Wester Coasta	er holly n spade l whipta	(Com efoot ( ail ( <i>As</i>	arostaphylis divers Spea hammondii) podpscelis tigris st		
Are species surveys recommended	?	Y 🛛	Ν		If Yes, for what species?	Least Bell's vireo during breeding season	
Will work occur in the breeding sea	son (Feb-Aug	gust)?				Y 🛛 N 🗆	
	P	ART III.	ADDIT	IONA	L NOTES/COMM	ENTS	
was taken based on water marks p of grasses. An earthen channel flov	resent approx vs into this ch as wetland w	ximately nannel fr /aters du	1.5 fee om out: ie to pr	et abov side o esenc	ve the channel bot f the HARRF facili e of wetland veget	was observed within the channel and the OHWM tom. Channel is unvegetated with small patches ty. The earthen channel is outside of the tation. There was no access to the buffer area	

## Footnotes:

1. Coordinates are based on the centroid of the facility.

- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



E-56	- 1/	1cl	ond	Park
E-30	- 10	ICL	.eou	<b>FUIK</b>

			P	ART I.	MAINTENANCE	FACI	LITY INFO	ORMAT	ION					
Facility Name	McLeod F	Park				Fa	cility ID	E-56						
Location	South Iris	Lane												
Latitude <sup>1</sup>	33.1459	85 L	.ongitude <sup>1</sup>	-11	17.097582	Ma	intenance	Freque	encv (v	ears)		An	nuall	V
Maintenance Fac			Channel			-	ing Type			Asphalt				,
	шту туре			ulated	adiment and was			Laiui	en anu	Aspirali				
Proposed Mainter Activities	nance				sediment and wee			drainage	e ditch	to original	conto	ours.		
Will work occur w	hen water	is in th	e channel	?	Y 🗌 N	$\boxtimes$		es, will ersion be		ering or wa ed?	iter	Y 🗆	] N	$\boxtimes$
					PART II. SURVE	Y INF	ORMATIC	ON						
, ,			nd William	n Kohn				Dat	e of Su	irvey		2/18/	2019	
Was water in the survey?	Was water in the channel at the time of the survey?YNHydrology Type2PIENO							o □						
Nearest Named V	Vaterbody	Esc	ondido Cr	eek			NWI Inde	ex Not	classifi	ed				
NRCS Soils Vist	a coarse s	andy lo	oam, 5 to 9	) perce	nt slopes									
Section II.a. Sun	nmary of	USACE	E/RWQCB	/CDFW	Waters of the U	.S. ar	nd State V	Vithin t	he Mai	intenance	Facil	ity		
USACE 404/RWO	-			Y	🛛 N 🗆		CE 404 R				Y	$\boxtimes$	Ν	
USACE Nonwetla					ACE Wetland			- 3		-				
Waters Present	anu	Y 🛛	N		aters Present	Y	□ N	$\boxtimes$	Taker	oint(s) 1	Y		Ν	$\boxtimes$
Associated Datas	heet(s)													
Summary of Aquatic	Type of Ju	risdictio	nal Water		Habitat Description <sup>3</sup>							ed withi ootprint		Impact Tier⁵
Habitats	Nonwe	tland V	Vaters			U/E					0.02	25		II
(Waters of the U.S. and State)									TOTAL		0.02	25		
Section II.b. Sun	nmarv of	CDFW	Waters of	the Si	tate Only Within	the N	laintenan	ce Faci	litv					
CDFW 1600 Jurisdiction Beyon USACE Waters		Y	N		CDFW Regulate					Y 🗌	N			
Summary of Aquatic	Type of Ju	risdictio	nal Water		Habita	t Desci	ription <sup>3</sup>			Acres Delineated within Maintenance Footprint <sup>4</sup>			Impact Tier⁵	
Habitats	Chann	el Bank	(		U/E						0.0			
(Waters of the State Only)									TOTAL		0.0	39		
Section II.c. Sun	nmary of	Vegeta	tion Com	muniti	es and Cover Ty	oes V	Vithin and	Adiac	ent to	the Maint	enand	e Fac	ility	
					res within Study						omanie		, incy	
Vegetation Cor Cover		s and	Mainter		<b>,</b>									
Cover	Types		Footp		100-Foot Buffer		Total			Dominan	t/Sign	ificant	t Spe	cies
Riparian and Wei	tland				·			•						
Unvegetated Ch	nannel		0.03	39	0.004		0.042							
Subtotal Riparia	n and We	tland	0.03	39	0.004		0.042							
Upland			0.00		0 700		0.707							
Non-Native Gra			0.00		0.796		0.797						_	
	Subtotal Up	bland	0.00	)1	0.796		0.797							
Other Land Cove			<0.0	01	2.237		2.237							
Subtotal Other La		Types	<0.0		2.237		2.237							
		<u>.</u> .	0.04		3.036		3.076							

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of the Maintenance Facility'
Special status species observed during 2019	News
field surveys within the Facility Buffer	None
Threatened/Endangered species historically	
known to occur within the Facility Buffer	N/A
Threatened/Endangered species having	
Designated Critical Habitat within the Facility	None
Buffer	
Threatened/Endangered species historically	Tricolored blackbird (Agelaius tricolor) (, CE)
known to occur within 1.0 mile of the Facility	Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC)
Buffer	
Other non-listed special status species	
historically known to occur within the Facility	None
Buffer	
Other non-listed special status species	
historically known to occur within 1.0 mile of	None
the Facility Buffer	
Are species surveys recommended?	Y N N If Yes, for what
	species?
Will work occur in the breeding season (Feb-Au	gust)? Y ⊠ N □
P	PART III. ADDITIONAL NOTES/COMMENTS

The majority of the channel is earthen (upstream end) and the downstream most end becomes asphalt-lined. Channel is a roadside ditch that runs along the roads edge and is primarily unvegetated. Channel supported shelving and had flowing water at the time of the survey.

# Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

**3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

# PART IV. REPRESENTATIVE FACILITY PHOTOGRAPHS

	Representative Photograph 1. Facing S. Unvegetated channel and inlet
The second se	
and the second second	



E-57 - Bienvenido and Vista

			PA	RT I.	MAINTENANCE	FACILITY INF	ORMA	TION			
Facility Name	Bienvenie	lo and	Vista			Facility ID	E-57	7			
Location	Bienvenie	lo Lane	e and Vista Ave	enue							
Latitude <sup>1</sup>	33.1542	36	Longitude <sup>1</sup>	-11	7.089045	Maintenanc	e Freq	uency (y	ears)	Annual	у
Maintenance F	acility Typ	е	Inlet			Lining Type	Eart	hen			
		Re	move accumul	ated s	sediment and wee	ed removal					
Proposed Mair Activities	ntenance	cha	annel for clean	exca	ed on the street a vation. ent along banks a				be used to	scoop sediment	out of
Will work occur	r when wa	ter is in	the channel?		Y 🖂 N			II dewate	ering or e needed?	YNN	
					PART II. SURVE				- necucu:		
Surveyors	Lanika Ce	ervante	s and William ł	Kohn			Da	ate of Su	irvey	2/18/2019	
Was water in the survey?	he channe	l at the	time of the		Y 🖾 N	Hydrolo					o 🗆
Nearest Name	d Waterbo	dy E	scondido Cree	ek		NWI Inc	lex No	t classifi	ed		
	Ramona sa	indy loa	am, 2 to 5 perc	ent slo	opes						
Section II.a. S	ummary	of USA	CE/RWQCB/C	DFW	Waters of the U	.S. and State	Within	the Mai	intenance	Facility	
USACE 404/R	WQCB 40	1 Juriso	diction	Y	🛛 N 🗆	USACE 404 F	Regula	ted Activ	ity	Y 🗌 N	$\boxtimes$
										Only Temporary structures are re	
USACE Nonwe Waters Presen		Y	🛛 N 🗌	We	ACE Itland Waters	Y 🗌 N		Datapo Taken		Y 🛛 N	
Associated Dat	tasheet(s)		OHWM Da	ta She	eet						
Summary of Aquatic Habita		of Juris	dictional Water		Habita	t Description <sup>3</sup>			Acres D Mainten	Impact Tier⁵	
(Waters of the	N	onwetla	and Waters			U/E				П	
U.S. and State	•							TOTAL		0.002	
Section II.b. S CDFW 1600	Summary				ate Only Within		ice Fac	cility			
Jurisdiction Be			Y 🛛 N [		CDFW Regulate	ed Activity			ΥX	N 🗌	
Summary of		of Juris	dictional Water		Habit	at Description <sup>3</sup>				elineated within nance Footprint <sup>4</sup>	Impact Tier⁵
Aquatic Habita (Waters of the		nannel	Bank			U/E				0.003	II
State Only)								TOTAL		0.003	
Section II.c. S	Summary	of Vege	etation Comm		es and Cover Ty		d Adja	cent to t	the Mainte	enance Facility	
Vegetation C	Communi	ies and	d	Acr	es within Study	Area <sup>6</sup>					
	er Types		Maintena Footpri		100-Foot Buffer	Total			Dominant	/Significant Spe	
Other Land Co	over Type	5	rooph			IUtal					
Urban/Develo	oped		-		0.817	0.817					
Disturbed Ha	bitat		0.003		0.145	0.14					
Subtotal Other				}	0.962	0.965					
	GRAND	TOTAL	6		0.962	0.965					

city of esconarao channel maintenance	KGP – Fuchicy Summary	E-57 - Dienveniao ana vista
Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of the	he Maintenance Facility <sup>7</sup>
Special status species observed during 2019		
field surveys within the Facility Buffer	None	
Threatened/Endangered species historically	N1/A	
known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having		
Designated Critical Habitat within the Facility	None	
Buffer		
Threatened/Endangered species historically	Tricolored blackbird (Agelaius tricolor) (-	
known to occur within 1.0 mile of the Facility Buffer	Coastal California gnatcatcher (Polioptila	
Duilei	Least Bell's vireo (Vireo bellii pusillus) (F	·E, SE)
Other non-listed special status species		
historically known to occur within the Facility	None	
Buffer		
Other non-listed special status species		
historically known to occur within 1.0 mile of	None	
the Facility Buffer	Nono	
and r domity Burier		
Are species surveys recommended?	Y N N If Yes, for	
	what species?	
Will work occur in the breeding season (Feb-Aug	gust)?	Y 🛛 N 🗖
P	ART III. ADDITIONAL NOTES/COMMEN	ITS
Channel is a small roadside ditch that supported		
ornamental trees on banks and directly adjacent completed for this site to be used as a represent		
completed for this site to be used as a represent		5.
Footnotes:		
1. Coordinates are based on the centroid of the facility.		
2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral,	D = Open Water	
3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earth	en, C = Concrete	
4. Impact areas are subject to change based on agency recommend	lations and/or maintenance design changes.	
5. The impact tier determines thresholds for O&M activities under	this RGP, and prescribes mitigation ratios for permanent/r	epeated impacts. A methodology for determining impact tier is
included in the permit package.		
6. Totals may not add up due to rounding.		
7. Sources: California Natural Diversity Database (CNDDB) (CDFW	2019) and U.S. Fish and Wildlife Critical Habitat Data (USF)	WS 2019).
	. REPRESENTATIVE FACILITY PHOTO	GRAPHS
		tograph 1. Facing N. Channel with non-native
	i topi oscilitative i no	





Arid West Ephemeral and Intermit	ttent Streams OHWM Datasheet
Project: City of Escendido Project Number: Stream: Investigator(s): / Cervantes	Date: )/8/19 Time: Town: Escandido State: A Photo begin file#: Photo end file#:
Y / N  Do normal circumstances exist on the site?	Location Details: E-57
Y / N Is the site significantly disturbed? Potential anthropogenic influences on the channel system Highly Urbanized area, so this area.	Projection: Datum: Coordinates: See Source
Potential anthropogenic influences on the channel syst	tem: Les staus dicerted into
Highly urbanized area, a	GORM WAILI I MAS COMPANY
	ing road. Area surrounded and dominated by nonratives.
Checklist of resources (if available):	an data
Aerial photography Stream gay Dates: Gage num	-
Topographic maps Period of p	
	ry of recent effective discharges
	ts of flood frequency analysis recent shift-adjusted rating
	heights for 2-, 5-, 10-, and 25-year events and the
	recent event exceeding a 5-year event
Global positioning system (GPS)	
Other studies	
Hydrogeomorphic	Floodplain Units
Active Floodplain	Low Terrace
he was a free free free free free free free fr	
Low-Flow Channels	/ / OHWM Paleo Channel
<b>Pr</b> ocedure for identifying and characterizing the floo	dplain units to assist in identifying the OHWM:
1 - Walk the channel and floodplain within the study area	
vegetation present at the site.	
2 - Select a representative cross section across the channel	
3 - Determine a point on the cross section that is characte	ristic of one of the hydrogeomorphic floodplain units.
<ul><li>a) Record the floodplain unit and GPS position.</li><li>b) Describe the sediment texture (using the Wentwort)</li></ul>	h 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	
<b>5</b> . Identify the OHWM and record the indicators. Record	
Mapping on aerial photograph Digitized on computer	GPS Other:

			rtn Siz	10	TIL 1		
SS	Wentworth size clas	m)	limeters (n	Mill		in)	Inches (i
	Boulder		256			.08	10.
Gravel	Cobble		64	-	منتعمته	.56 —	2.
Ø	Pebble	د معدد	4			.157	0.
	Granule		2.00			.079 —	
	Very coarse sand		1.00	<b>047</b>		.039 —	0.
1 C	Coarse sand		0 50	0-da-		.020	0.
Sand	Medium sand	barara i	0.25			.0098	1/2 0
	Fine sand	anatic: a	0.125	0000-	-	.005 —	1/4 0
*****	Very fine sand Coarse silt		0.0625			0025	1/8 — 0
	Medium sit	4000440	0.031			.0012 —	1/16 0
t.	Fine silt	;	0.0156	.' ***		00061	1/32 0
	Very fine silt	·	0.0078	***		00031 -	1/64 0
	very mie sat	}	0.0039	******		.00015	1/128 — 0
Man	Clay						

Wentworth Size Classes

Cross section drawi	Cross section ID:		Date: 2/18/19	Time:
	ng:			
	w _ other	otterm E		· · · · · · · ·
	Č,	J. J		
		F		
OHWM				
GPS point:				
Indicators:				
🖄 Change in ve	erage sediment texture getation species getation cover	Other:	n bank slope	
<b>_</b>	-			
Comments:	oidal roadside à	Irainage.	- thrack it	s s app.
110010	glear change in	vegetat	ion - Ulear II	( SIM -
	~w?	~		
	<u></u>			
Floodplain unit:	Low-Flow Channel		Floodplain	] Low Terrace
				-
GPS point:			· · · · · · · · · · · · · · · · · · ·	
Characteristics of the Average sediment tex	floodplain unit: ture: Medium san	A	and the second	and 1960 - Santa Santa Santa Santa 1960 - Namara Santa Santa Santa Santa
Average sediment tex Total veg cover: <u>\O</u>	ture: <u>Medium san</u> ) % Tree: <u>@</u> % S	d hrub: <u>0</u> %		
Average sediment tex	ture: <u>Medium san</u> ) % Tree: <u>@</u> % S	hrub: <u>Ø</u> %		
Average sediment tex Total veg cover: <u>\O</u> Community successio NA	ture: <u>Medium san</u> ) % Tree: <u>@</u> % S	hrub: $\mathcal{O}$ %	Herb: <u>\</u> %	plings)
Average sediment tex Total veg cover: <u>\O</u> Community successio NA	ture: <u>Medium San</u> ) % Tree: <u>6</u> % S mal stage:	hrub: $\mathcal{O}$ %	Herb: <u>\</u> ≶_% erbaceous, shrubs, sa	plings)
Average sediment tex Total veg cover: <u>\0</u> Community successio NA Early (herbac <b>Indicators:</b> Mudcracks	ture: <u>Medium San</u> ) % Tree: <u>6</u> % S mal stage:	hrub: <u>&amp; %</u> Mid (h Late (h Soil de	Herb: <u>\</u> 5_% erbaceous, shrubs, sa erbaceous, shrubs, m velopment	plings)
Average sediment tex Total veg cover: <u>\O</u> Community successio <u>I</u> NA Early (herbac <b>Indicators:</b>	ture: <u>Medium San</u> ) % Tree: <u>@</u> % S onal stage: ceous & seedlings)	hrub: <u>&amp; %</u> Mid (h Late (h Soil de	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings)
Average sediment tex Total veg cover: <u>\</u> Community successio NA Early (herbace Indicators: Mudcracks Ripples Drift and/or of Presence of b	ture: <u>Medium San</u> ) % Tree: <u>@</u> % S mal stage: ceous & seedlings) debris	hrub: <u>&amp; %</u> Mid (h Late (h Soil de	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings)
Average sediment tex Total veg cover: <u>\0</u> Community successio NA Early (herback) Indicators: Mudcracks Ripples Drift and/or of Presence of the Benches	ture: <u>Medium San</u> Markov Si Markov Si Markov Si Medium San Medium San Medium San Medium San Medium San Medium San San Medium San San San San San San San San	hrub:% Mid (h Late (h Soil de Surface Other: Other: Other:	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings) ature trees)
Average sediment tex Total veg cover: <u>\0</u> Community successio NA Early (herback) Indicators: Mudcracks Ripples Drift and/or of Presence of the Benches	ture: <u>Medium San</u> Markov Si Markov Si Markov Si Medium San Medium San Medium San Medium San Medium San Medium San San Medium San San San San San San San San	hrub:% Mid (h Late (h Soil de Surface Other: Other: Other:	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings) ature trees)
Average sediment tex Total veg cover: <u>\0</u> Community successio NA Early (herback) Indicators: Mudcracks Ripples Drift and/or of Presence of the Benches	ture: <u>Medium San</u> ) % Tree: <u>@</u> % S mal stage: ceous & seedlings) debris	hrub:% Mid (h Late (h Soil de Surface Other: Other: Other:	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings) ature trees)
Average sediment tex Total veg cover: <u>\0</u> Community successio NA Early (herback) Indicators: Mudcracks Ripples Drift and/or of Presence of the Benches	ture: <u>Medium San</u> Markov Si Markov Si Markov Si Medium San Medium San Medium San Medium San Medium San Medium San San Medium San San San San San San San San	hrub:% Mid (h Late (h Soil de Surface Other: Other: Other:	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings) ature trees)
Average sediment tex Total veg cover: <u>\0</u> Community successio NA Early (herback) Indicators: Mudcracks Ripples Drift and/or of Presence of the Benches	ture: <u>Medium San</u> Markow Market Market Market Medium San Medium San Medium San Medium San Medium San Medium San Medium San San Medium San San San San San San San San	hrub:% Mid (h Late (h Soil de Surface Other: Other: Other:	Herb: <u>\5</u> % erbaceous, shrubs, sa erbaceous, shrubs, m velopment e relief	plings) ature trees)

roject ID:Cross section IDIoodplain unit: Low-Flow Channel	<b>Date:</b> $2/18/19$ <b>Time:</b> Active Floodplain $\Box$ Low Terrace	<b>A</b>
<b>IOUCHTAIN UNIT</b> .		
PS point:		
Characteristics of the floodplain unit: Average sediment texture: <u>Coarse sat</u> Total veg cover: <u>0</u> % Tree: <u>0</u> % Community successional stage: NA Early (herbaceous & seedlings)	Shrub: <u>\∂</u> % Herb: <u>60</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	
ndicators:		
Mudcracks	Soil development	
Ripples C Drift and/or debris	Surface relief Other:	
Presence of bed and bank	U Other:	
🔀 Benches	Other:	
and bromus sp.	inated by iceptant, tumble weed	
Floodplain unit: 🗌 Low-Flow Channel	Active Floodplain  Low Terrac	e
GPS point:		
Characteristics of the floodplain unit:	1911	
Average sediment texture: COAISE 501	$\frac{nd}{n!}$ is $\lambda = 0$ . Here $\sum n'$	
Total veg cover: <u>5</u> % Tree: <u>5</u> %	Shrub: $1/2$ % Herb: $30$ %	
Community successional stage.		
Community successional stage:	Mid (herbaceous, shrubs, saplings)	
	<ul> <li>Mid (herbaceous, shrubs, saplings)</li> <li>Late (herbaceous, shrubs, mature trees)</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> </ul>	Late (herbaceous, shrubs, mature trees)	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> </ul>	<ul><li>Late (herbaceous, shrubs, mature trees)</li><li>Soil development</li></ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> <li>Benches</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> <li>Benches</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> <li>Benches</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> <li>Benches</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> <li>Benches</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> <li>Indicators:</li> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> <li>Benches</li> </ul>	<ul> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	

PART I. MAINTENANCE FACILITY INFORMATION										
Facility Name	Reidy C	reek Go	If Course		Facility ID	E-58				
Location	North Br	oadway	and Merion Gle	n						
Latitude <sup>1</sup>	33.166	997	Longitude <sup>1</sup>	-117.090040	Maintenance	Maintenance Frequency (years) Annually				
Maintenance F	acility Ty	ре	Channel		Lining Type	Earthen				
Proposed Main Activities	itenance	need Equ with Acce sedi Sed	ded with handtoo pment to be with n pilot channel a ess routes as sho ment and debris ment and debris	nin channel to clear f area to allow access own on figures will be	or pilot channel. for equipment e trimmed using n site. If needed	Native vegeta handtools to a	ation will be trir	nmed using h ut of channel	andtools to remove	
Will work occur	r when w	ater is ir	the channel?	Y 🗆 N		es, will dewate rsion be need		Y 🗌 N	$\boxtimes$	
				PART II. SURVE			ou.			
Surveyors	Lanika C	ervante	s and William Ko	ohn		Date of Su	irvey	2/18/2019		
Was water in th survey?	ne chann	el at the	time of the	Y 🖾 N	Hydrolog	ıy Type <sup>2</sup>		] E 🗌 (	<b>c</b>	
Nearest Name	d Waterb	ody F	Reidy Creek		NWI Inde	ex Freshwater	Emergent We	etland		
NRCS Soils	'isalia sai	ndy loan	n, 0 to 2 percent	slopes and Ramona	sandy loam, 2 t	o 5 percent slo	opes			
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility										
USACE 404/R	WQCB 4	01 Juriso	diction	Y 🛛 N 🗆	USACE 404 R	egulated Activ	vity Y	N N		
USACE Nonwe Waters Presen		Y	N 🗆	USACE Wetland Waters Present						
Associated Dat	tasheet(s	)	Wetland San	nple Points 1.1 and 1	.2; OHWM Data	a Sheet				
0	Туре	of Jurisd	ictional Water	Habi	itat Description. <sup>3</sup>		Acres Deline Maintenance	Impact Tier <sup>5</sup>		
Summary of Aquatic Habita	ts Wet	and Wa	ters		V/E		0.1	I		
(Waters of the U.S. and State)	Non	wetland	Waters		U/C		0.0	03	IV	
	)					TOTAL	0.1	69		
	ummary	of CDF	W Waters of the	e State Only Within	the Maintenan	ce Facility				
CDFW 1600 Jurisdiction Be USACE Waters			Y 🛛 N 🗌	CDFW Regulate	·		Y 🗌 N			
Summary of	Туре	of Jurisd	ictional Water	Hab	itat Description. <sup>3</sup>			eated within e Footprint⁴	Impact Tier <sup>5</sup>	
Aquatic Habita (Waters of the	ts Ripa	rian Ext	ent		V/E			166		
State Only)	Stre	ambed			U/C	TOTAL		)03	IV	
Section II.c. S	ummarv	of Vea	etation Commu	nities and Cover Ty	pes Within and			69 nce Facility		
Vegetation C Cove	commun er Types	ties and		Acres within Study				Dominant/Significant Species		
Riparian and W Coastal and V		eshwate	r –	0.027	0.027	Typha dor	mingensis			
Marsh	, and y i h	Simulo		0.021	0.021	i ypria dor				
Emergent We			-	0.118	0.118	Juncus s				
Mulefat Scrub	C		-	0.074	0.074	Baccharis	salicifolia			

City of Escondido Channel Ma	intenance	E-58 - Reidy Creek Golf Course								
So. Cottonwood-willow Riparian Forest	0.166	2.345	2.510	Salix lasiolepis and Populus fremontii						
Southern Arroyo Willow Riparian Forest	-	0.218	0.218	Salix lasiolepis						
Southern Riparian Scrub	-	0.300	0.300							
Subtotal Riparian and Wetland	0.166	3.082	3.244							
Upland										
Non-Native Grassland		0.022	0.022							
Subtotal Upland	-	0.022	0.022							
Other Land Cover Types		L								
Urban/ Developed	0.003	2.241	2.244							
Subtotal Other Land Cover Type	0.003	2.241	2.244							
GRAND TOTAL <sup>6</sup>	0.169	5.341	5.510							
Section II.d. Threatened/Endange	ered/Special	Status Species With	in the Vicinity	of the Maintenance Facility <sup>7</sup>						
Special status species observed du field surveys within the Facility Buff	er	None								
Threatened/Endangered species hi known to occur within the Facility B	uffer	N/A								
Threatened/Endangered species ha Designated Critical Habitat within th Buffer		None								
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer		Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE)								
Other non-listed special status spec historically known to occur within th Buffer		None	None							
Other non-listed special status spec historically known to occur within 1. the Facility Buffer		Summer holly ( <i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i> ) (CRPR 1B.2) Southern rufous-crowned sparrow ( <i>Aimophila ruficeps canescens</i> ) (WL)								
Are species surveys recommended	l?	Y 🖾 N 🗆	If Yes, for what species?	Least Bell's vireo and San Diego Ambrosia						
Will work occur in the breeding sea	son (Feb-Au	gust)?		Y N D						
		ART III. ADDITIONAL	NOTES/COMM	MENTS						

Channel is within a golf course, therefore receives additional hydrology from the irrigation of the surrounding course. Low flow channel supports flowing water with steep banks on either side of the channel on the upstream end. All wetlands occur within the OHWM. A small wetland basin is located west of this channel. It is outside of the maintenance footprint, however mapped within the buffer area.

# Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

# PART IV. REPRESENTATIVE FACILITY PHOTOGRAPHS





Arid West Ephemeral and Intermit	tent Streams OHWM Datasheet
Project: City of Exandido RGP Project Number:	Date: 2/18/19 Time: 8:30 am Town: Escondido State: CA
Stream: Quidy Lieta Investigator(s): L. Cervantes	Photo begin file#: Photo end file#:
$Y \square / N \square$ Do normal circumstances exist on the site?	Location Details: E-58
Y / N Is the site significantly disturbed?	Projection: Datum: Coordinates: See A.G.Ke
Potential anthropogenic influences on the channel syst E-58 is blated in a g and irrigation affects	df cause, therefore human usage
and irrigation affects	this site
Brief site description: Cottonward-willaw 1	₩.*
Confined drainage du	e to golf course.
Checklist of resources (if available):	
Aerial photography	-
Dates: Gage num Topographic maps Period of r	
Little robotenting and here an	y of recent effective discharges
	ts of flood frequency analysis
Soils maps 🗌 Most	recent shift-adjusted rating
	heights for 2-, 5-, 10-, and 25-year events and the
	recent event exceeding a 5-year event
Global positioning system (GPS)	
Other studies	
Hydrogeomorphic	Floodplain Units
Active Floodplain	Low Terrace
Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the floo	
1. Walk the channel and floodplain within the study area	to get an impression of the geomorphology and
vegetation present at the site.	Drew the areas parties and lobal the floodslain units
2. Select a representative cross section across the channel	. Draw the cross section and laber the hoodplain units.
3 - Determine a point on the cross section that is character a) Record the floodplain unit and GPS position.	Tistic of one of the hydrogeomorphic hoodplath diffe.
b) Describe the sediment texture (using the Wentwort	h class size) and the vegetation characteristics of the
floodplain unit.	a class size, and the regenation emilionerships
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	
Mapping on aerial photograph	GPS GPS
Digitized on computer	Other:

Wentworth size class Inches (in) Millimeters (mm) Boulder 10.08 256 Gravel Cobble 2.56 64 Pebble 0.157 4 Granule 0.079 2.00 Very coarse sand 0.039 1.00 Coarse sand 0.020 0.50 Sand Medium sand 1/2 0.0098 0.25 Fine sand 1/4 0.005 0.125 Very fine sand 1/8 ----0.0025 0.0625 Coarse silt 1/16 0.0012 0.031 Medium silt 0.00061 S 1/32 0.0156 Fine silt 1/84 0.00031 0.0078 -Very fine silt 1/128 — 0.00015-0.0039 Mud Clay

Wentworth Size Classes

	· · · · · · · · · · · · · · · · · · ·
Cross section drawing:	
E Terrale John	F LF
<u>OHWM</u>	
GPS point:	
Indicators: Change in average sediment texture Change in vegetation species Change in vegetation cover	Break in bank slope Other: Other:
Comments: Within otturn = Cal Outside otturn = Mu Immed System.	rtails, willows, cottonwood, + wild a lefat, coyote brush, isocoma, late slope at of othum, confined
<b>Floodplain unit:</b> Kow-Flow Channel	Active Floodplain Low Terrace
GPS point:	
Characteristics of the floodplain unit: Average sediment texture: Fine Kitt Total veg cover: 60 % Tree: 8 % Sh Community successional stage: NA Early (herbaceous & seedlings)	rub: <u>%</u> Herb: <u>%</u> Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Characteristics of the floodplain unit: Average sediment texture: File Kilt Total veg cover: 60 % Tree: 6% Sh Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris	<ul> <li>Mid (herbaceous, shrubs, saplings)</li> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> </ul>
Characteristics of the floodplain unit: Average sediment texture: File Kilt Total veg cover: 60 % Tree: 6% Sh Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris	<ul> <li>Mid (herbaceous, shrubs, saplings)</li> <li>Late (herbaceous, shrubs, mature trees)</li> <li>Soil development</li> <li>Surface relief</li> <li>Other:</li> </ul>

<b><u>Floodplain unit</u></b> :  Low-Flow Channel	E-58Date: 2/\8/9Time:Active FloodplainIow Terrace	
GPS point:		
Gi 5 point.		
Characteristics of the floodplain unit: Average sediment texture: <u>Medium 6</u> Total veg cover: <u>6</u> % Tree: <u>30</u> % Community successional stage:	<u> +</u> Shrub: <u>6</u> % Herb: <u>6</u> %	
<ul> <li>NA</li> <li>Early (herbaceous &amp; seedlings)</li> </ul>	<ul> <li>Mid (herbaceous, shrubs, saplings)</li> <li>Late (herbaceous, shrubs, mature trees)</li> </ul>	
Indicators:		· 1
<ul> <li>Mudcracks</li> <li>Ripples</li> <li>Drift and/or debris</li> </ul>	Soil development Surface relief Other:	<i>n</i> 1
Presence of bed and bank Benches	Uther:	
Comments: Active Flood plain su Debris and ser	pports nature trees 4 cattails. Jiment deposition throughout	1 (J. 1
GPS point: Characteristics of the floodplain unit:		e service é e service
Average sediment texture: <u>Medium s</u> Total veg cover: <u>SO</u> % Tree: <u>D</u> %	Shrub: $50\%$ Herb: $2\%$	
Community successional stage: NA Early (herbaceous & seedlings)	Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	
Indicators:	Soil development	
<ul> <li>Ripples</li> <li>Drift and/or debris</li> <li>Presence of bed and bank</li> </ul>	Surface relief     Other:     Other:     Other:	
Renches		elevat
Benches Comments:	ch., Area is 15th night in	Teleficie
Benches Comments: NO evidence of Rram offwm	Other: flow. Area is 15ft higher in e n limits. Steep slopes.	

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Cha	annel Maintenar	nce RGP	City/County:	condido/San Die	ego	Sampling	Date:2/18/	/2019	
Applicant/Owner: City of Escondido	)			Sta	te:CA	_ Sampling I	Point:E-58	8 WSP 1.1	
Investigator(s): Lanika Cervantes; V	Villiam Kohn		Section, Township, Range:						
Landform (hillslope, terrace, etc.): dra	Local relief (co	Local relief (concave, convex, none):concave Slope (%):2				%):2			
Subregion (LRR): C - Mediterranear	166846	Long:-1	17.089945		Datum:				
Soil Map Unit Name: Ramona sandy	loam, 2 to 5 pe	rcent slopes			NWI classif	cation:Fresh	water En	nergent Wet	
Are climatic / hydrologic conditions on	the site typical for	r this time of ye	ear?Yes 🖲	No 🔿 (If r	no, explain in	Remarks.)			
Are Vegetation Soil or	Hydrology	significantly	disturbed?	Are "Normal Ci	rcumstances"	present? Y	es 💿	No 🔿	
Are Vegetation Soil or	Hydrology	naturally pro	oblematic?	(If needed, exp	lain any answ	ers in Remar	ˈks.)		
SUMMARY OF FINDINGS -	Attach site ma	ap showing	sampling p	oint locations	, transects	s, importa	nt featu	res, etc.	
Hydrophytic Vegetation Present?	Yes 💿	No 🔘							
Hydric Soil Present?	Yes 💿	No 🔘	Is the S	Sampled Area					
Wetland Hydrology Present?	Yes 💽	No 🔘	within	a Wetland?	Yes 🖲	No C	)		
Remarks:Sample point taken with	hin OHWM.								

# VEGETATION

	Absolute	Dominant		Dominance Test w	vorksheet	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?		Number of Dominar				
1.Populus fremontii	25	Yes	FAC	That Are OBL, FAC	W, or FA	C: 4	(	(A)
2.Salix laseolepis	20	Yes	FACW	Total Number of Do	ominant			
3				Species Across All	Strata:	4	(	(B)
4				Percent of Dominar	nt Snacias	2		
Total Cove	r: 45 %			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0			0% (	A/B)
Sapling/Shrub Stratum								
1				Prevalence Index				
2				Total % Cover		Multiply		
3.				OBL species	50	x 1 =	50	
4.				FACW species	20	x 2 =	40	
5.				FAC species	40	x 3 =	120	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
1. Typha domingensis	50	Yes	OBL	Column Totals:	110	(A)	210	(B)
2.				_		. ,		
3.				Prevalence In	dex = B/I	A =	1.91	
4.			·	Hydrophytic Vege	tation Inc	licators:		
5.				X Dominance Te	st is >50%	0		
6.				× Prevalence Ind	lex is ≤3.0	) <sup>1</sup>		
7.				Morphological				ng
8.						n a separate s	,	
Total Cover	50 %			Problematic Hy	/drophytic	· Vegetation <sup>1</sup> (	Explain	)
Woody Vine Stratum	. 50 %							
1.Rubus ursinus	15	Yes	FAC	<sup>1</sup> Indicators of hydri	c soil and	I wetland hyd	rology n	nust
2.				be present.				
Total Cover	: 15 %			Hydrophytic				
% Bare Ground in Herb Stratum 50 % % Cover	of Biotic C	Cruct	0/	Vegetation Present?	Yes 🖲	No		
		JIUSI	%	Fiesent?	res 🛡			
Remarks:								

# SOIL

Profile Des	cription: (Describe to	o the de	pth needed t	o docum	ent the	indicator	or confirm	n the absence of	indicators.)			
Depth	Matrix			Redox	Feature							
(inches)	Color (moist)	%	Color (mo	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks	
0-10	10-YR 4/2	90	5 YR 4/3		10	С	М	Loamy/Clay	Loamy/Clay soils very wet.			
	· ·											
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RN	I=Reduced M	atrix, CS=	=Covere	ed or Coate	ed Sand G	rains. <sup>2</sup> Locatio	on: PL=Pore L	ining, M	=Matrix.	
Hydric Soil	Indicators: (Applicable	e to all Ll	RRs, unless of	herwise r	noted.)			Indicators for	Problematic H	lydric Sc	oils:	
Histoso	l (A1)		San	dy Redox	(S5)			1 cm Muc	k (A9) ( <b>LRR</b> (	C)		
Histic E	pipedon (A2)		Stri	ped Mat	rix (S6)			2 cm Muc	k (A10) ( <b>LRR</b>	<b>B</b> )		
	listic (A3)			my Muck		( )		Reduced Vertic (F18)				
	en Sulfide (A4)			my Gleye		. ,		Red Parent Material (TF2)				
	d Layers (A5) (LRR C)	)	· · ·	leted Ma	. ,			Other (Explain in Remarks)				
	uck (A9) ( <b>LRR D</b> )			ox Dark \$		( )						
	ed Below Dark Surface	(A11)	·	leted Dar		( )						
	ark Surface (A12)			ox Depre		(F8)		<sup>3</sup> Indicators of I	, , ,	0		
	Mucky Mineral (S1)		Ver	nal Pools	(F9)			wetland hydr	•••	•	t,	
· · ·	Gleyed Matrix (S4)							unless distur	bed or proble	matic.		
Restrictive	Layer (if present):											
Type:												
Depth (ir	nches):							Hydric Soil Pr	esent? Ye	s 💿	No 🔿	
Remarks: V	Vater encountered at	t 10 inc	hes.									

# HYDROLOGY

Wetland Hydrology Indicators:								
Primary Indicators (any one indicator is suff	ficient)		Se	condary Indicators (2 or more required)				
Surface Water (A1)		Salt Crust (B11)			Water Marks (B1) (Riverine)			
High Water Table (A2)		Biotic Crust (B12)			Sediment Deposits (B2) ( <b>Riverine</b> )			
Saturation (A3)	Aquatic Invertebrates (B13)			X Drift Deposits (B3) ( <b>Riverine</b> )				
Water Marks (B1) (Nonriverine)		Hydrogen Sulfide Odor (C1)		X	Drainage Patterns (B10)			
Sediment Deposits (B2) (Nonriverine)		Oxidized Rhizospheres along I	iving Roots (C3)		Dry-Season Water Table (C2)			
Drift Deposits (B3) (Nonriverine)		Presence of Reduced Iron (C4	)		Crayfish Burrows (C8)			
Surface Soil Cracks (B6)				Saturation Visible on Aerial Imagery (C9)				
Inundation Visible on Aerial Imagery (E	Recent Iron Reduction in Plow	ed Soils (C6)						
Water-Stained Leaves (B9)				FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present? Yes 〇	No 💿	Depth (inches):						
Water Table Present? Yes •	No 🔿	Depth (inches): 10 inches						
Saturation Present? Yes • (includes capillary fringe)	No 🔿	Depth (inches): surface	Wetland Hy	drol	ogy Present? Yes 💿 No 🔿			
Describe Recorded Data (stream gauge, m	onitoring	well, aerial photos, previous insp	pections), if availa	able:				
Remarks: Multiple hydrology indicators	5.							
1 9 89								

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Ch	annel Maintena	nce RGP	City/County:Escondido/San Diego		Diego	Sampling Date:2/18/2019			
Applicant/Owner: City of Escondido	)		_		State:CA	Sampling Point:E	-58 WSP 1.2		
Investigator(s): Lanika Cervantes; V	William Kohn		Section, Town	Section, Township, Range:					
Landform (hillslope, terrace, etc.): Slo	Local relief (c	oncave, conve	x, none):convex	Slop	be (%):30				
Subregion (LRR):C - Mediterranear	.166864	Long	g:-117.089892	Datur	n:				
Soil Map Unit Name: Visalia sandy	loam, 0 to 2 per	cent slopes			NWI classifi	cation:Freshwater	Forested/Shruh		
Are climatic / hydrologic conditions or	the site typical fo	r this time of ye	ear?Yes 🖲	No 🔿	(If no, explain in F	Remarks.)			
Are Vegetation Soil or	r Hydrology	significantly	v disturbed?	Are "Norma	al Circumstances"	present? Yes 💿	No 🔿		
Are Vegetation Soil or	r Hydrology	naturally pro	oblematic?	(If needed,	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS -	Attach site ma	ap showing	sampling p	oint locatio	ons, transects	s, important fea	itures, etc.		
Hydrophytic Vegetation Present?	Yes 💿	No 🔘							
Hydric Soil Present?	Yes 🔘	No 💿	Is the S	Sampled Area					
Wetland Hydrology Present?	Yes 🔘	No 💿	within	a Wetland?	Yes 🔿	No 🖲			
Remarks:Sample point taken on	hillslope outside	e of OHWM.	, r						

# VEGETATION

	Absolute	Dominant		Dominance Test w	vorksheet			
		Species?		Number of Domina				
1.Populus fremontii	10	Yes	FAC	That Are OBL, FAC	CW, or FA	C: 3	(	(A)
2.Salix laseolepis	10	Yes	FACW	— Total Number of Dominant				
3				Species Across All Strata: 5			(	(B)
4				Percent of Domina	nt Snacias			
Total Cover Sapling/Shrub Stratum	: 20 %			That Are OBL, FACW, or FAC: 60.0 %			) % (	A/B)
1.Baccharis sarathoides	25	Yes	FACU	Prevalence Index	workshee	et:		
2.Baccharis salicifolia	10	Yes	FAC	Total % Cover	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4				FACW species	10	x 2 =	20	
5.				FAC species	20	x 3 =	60	
Total Cover	35 %			FACU species	35	x 4 =	140	
Herb Stratum	/-			UPL species	50	x 5 =	0	
1. Cortaderia selloana	10	Yes	FACU	Column Totals:	65	(A)	220	(B)
2							2.20	
3.				Prevalence Ir			3.38	
4.				Hydrophytic Vege				
5.				X Dominance Te				
6.				Prevalence Inc	dex is ≤3.0	1		
7				Morphological		ns <sup>1</sup> (Provide s n a separate s		ng
8				- Problematic H			,	)
Total Cover Woody Vine Stratum	: 10 %				,,		, r ,	, ,
1				<sup>1</sup> Indicators of hydri	ic soil and	wetland hyd	rology n	nust
2.				be present.				
Total Cover	: %			Hydrophytic				
	of Biotic C		%	Vegetation Present?	Yes 🖲	No 🔿		
Remarks: Hillslope supports a mixture of wetland and	nd nonwe	etland veg	etation.	_				

# SOIL

Profile Des	cription: (Describe t	o the de	pth needed to do	cument the	indicator	or confirm	m the absence of	indicators.)					
Depth	Matrix			dox Feature									
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks				
0-14	10-YR 3/3	100	N/A				Loamy/Clay	moist soils but no redox.					
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RN	I=Reduced Matrix,	CS=Covere	ed or Coate	d Sand G		on: PL=Pore Lining, M	<u>^</u>				
Hydric Soil	Indicators: (Applicable ol (A1)	e to all Ll	RRs, unless otherw					Problematic Hydric So ck (A9) (LRR C)	ils:				
Histic E	pipedon (A2)		Stripped	Matrix (S6)			2 cm Muc	ck (A10) ( <b>LRR B</b> )					
Black F	listic (A3)		Loamy N	lucky Minera	al (F1)		Reduced Vertic (F18)						
Hydrog	en Sulfide (A4)		Loamy G	leyed Matriz	x (F2)		Red Parent Material (TF2)						
Stratifie	ed Layers (A5) ( <b>LRR C</b>	)	Depleted	I Matrix (F3)			Other (Explain in Remarks)						
1 cm M	luck (A9) (LRR D)		Redox D	ark Surface	(F6)								
Deplete	ed Below Dark Surface	e (A11)	Depleted	I Dark Surfa	ce (F7)								
Thick D	ark Surface (A12)		Redox D	epressions	(F8)		<sup>3</sup> Indicators of	hydrophytic vegetation	and				
Sandy	Mucky Mineral (S1)		Vernal P	ools (F9)			wetland hydrology must be present,						
Sandy	Gleyed Matrix (S4)						unless disturbed or problematic.						
Restrictive	Layer (if present):												
Type:													
Depth (ir	nches):						Hydric Soil Pr	esent? Yes 🔿	No 🖲				
Remarks: N	lo redox observed.												

# HYDROLOGY

Wetland Hydrology Indicators:									
Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)								
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)							
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )							
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )							
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)							
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C	C3) Dry-Season Water Table (C2)							
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)							
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)							
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (C6)	Shallow Aquitard (D3)							
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)							
Field Observations:									
Surface Water Present? Yes O No 💿	Depth (inches):								
Water Table Present? Yes O No 💿	Depth (inches):								
Saturation Present? Yes O No 💿	Depth (inches):								
(includes capillary fringe)		Hydrology Present? Yes () No (•)							
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if av-	ailable:							
Remarks:No hydrology indicators observed. Sa	ample Point approximately 6 feet higher in	n elevation from 1.1							

PART I. MAINTENANCE FACILITY INFORMATION																			
Facility Name	E. Side Cer	entre City Pkwy and 13 <sup>th</sup>					Fac	cility ID	E-5	9									
Location	Centre City	y Parkway (east side) and West 13 <sup>th</sup> Avenue																	
Latitude <sup>1</sup>	33.107853	3 Longitude <sup>1</sup> -117.078549					Ма	Maintenance Frequency (years) Annually											
Maintenance Fa	acility Type	C	Channel	1				Lini	ing Type	Earth	nen								
		Remo	ove accumula	ted s	edimer	nt and w	eed	d rem	oval										
Proposed Maint Activities	tenance	chanr	nel for clean e	will be staged on the street and backhoe or excavator will be used to scoop sediment out of clean excavation. g of equipment along banks and no equipment in channel.															
Will work occur	when water	r is in th	e channel?		Y 🛛	_			wat	er div	ill dewat rersion b			?	Y	$\square$	N		
				F	PART I	I. SURV	/EY	INF	ORMATI	ON									
Surveyors	Lanika Cerv	antes a	and William K	ohn						C	ate of S	Surve	еу		2	2/26/2	2019		
Was water in th survey?	e channel a	it the tin	ne of the		Y [		ID	3	Hydrolog	gy Ty	pe <sup>2</sup>	Ρ				E		<b>)</b>	]
Nearest Named	I Waterbody	Esco	ndido Creek						NWI Ind	ex N	ot Classi	ified	I						
NRCS Soils Pl	acentia san	dy loan	n, 2 to 9 perce	ent slo	opes														
Section II.a. Su	ummary of	USACE	E/RWQCB/CL	DFW	Waters	s of the	U.S	S. an	d State I	Nithii	n the Ma	ainte	enanc	e Fac	cility	7			
USACE 404/RWQCB 401 Jurisdiction				Y N D USACE 404 Regulated Activ					tivity Y I N Only Temporary structures are re-										
USACE Nonwe Waters Present		Y 🛛	N 🗌		ACE tland W sent						apoint(s) en Y 🗌 N 🖾								
Associated Data	asheet(s)																		
Summary of		urisdicti	onal Water	Habitat Description. <sup>3</sup>					Acres Delineated within Maintenance Footprint <sup>4</sup>						Impa	nct Tier⁵			
Aquatic Habitat (Waters of the		tland Waters			U			U/E	U/E			0.022							
U.S. and State)								TOTAL						0.022					
Section II.b. Su	ummary of	CDFW	Waters of th	ie Sta	ate Onl	y Withi	n tl	he M	aintenan	ice Fa	cility								
CDFW 1600 Jurisdiction Bey USACE Waters	rond	Y	⊠ N 🗆	]	CDFW Regulated Activity					Y	Y 🛛 N 🗆								
Summary of		lurisdicti	onal Water	Habitat Description <sup>6</sup>					Acres Delineated Maintenance Foo						Impa	act Tier <sup>9</sup>			
Aquatic Habitat (Waters of the	el Bank			U/E								0.0	0.035				П		
State Only)					TOTAL						L		0.0	)35					
Section II.c. Summary of Vegetation Communities and Cover Types Within and Adjacent to the Maintenance Facility																			
Vegetation Communities and Acres within Study Area <sup>6</sup>																			
Cover Types			Maintenar Footprin					Total			Dominant/Significant Specie					cies			
Riparian and WetlandUnvegetated Channel0.001								0.025											
Subtotal Ripal		tland	0.001					0.035											
Upland			0.001		0				0.000										
Eucalyptus Woodland 0.003					0	.147	0.150												
Subtotal Upla	nd		0.003		0	.147			0.150										

Other Land Cover Types			-						
Urban/Developed	0.003	2.039	2.039						
Subtotal Other Land Cover Types	0.003	2.039	2.042						
GRAND TOTAL <sup>6</sup>	0.041	2.187	2.228						
Section II.d. Threatened/Endange	ered/Special	Status Species Wit	hin the Vicinity c	of the Maintenance Facility <sup>7</sup>					
Special status species observed du field surveys within the Facility Buff		None							
Threatened/Endangered species hi known to occur within the Facility B		N/A							
Threatened/Endangered species has Designated Critical Habitat within the Buffer	aving ne Facility	None							
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer	Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST) Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FT, SE) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)								
Other non-listed special status spec historically known to occur within th Buffer		None							
Other non-listed special status spec historically known to occur within 1. the Facility Buffer	Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California legless izard ( <i>Anniella stebbinsi</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC) Southern California rufous-crowned sparrow ( <i>Aimophila ruficeps canescens</i> ) (WL) Bell's sage sparrow ( <i>Artemisiospiza belli belli</i> ) (WL) Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL) Pallid bat ( <i>Antrozous pallidus</i> ) (SSC) Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC) Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC) Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC) Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC)								
Are species surveys recommended	l?	Y 🗌 N 🖾	If Yes, for what species?						
Will work occur in the breeding sea	son (Feb-Aug	just)?		Y 🛛 N 🗆					

# PART III. ADDITIONAL NOTES/COMMENTS

Channel is a roadside ditch that supports shelving and wrack throughout. Channel is mostly unvegetated with some patches of nonnative grasses including *Bromus diandrus*, *Erodium sp.*, *cynodon dactylon*, and *Lactuca serriola*. No water was present during the time of the survey.

# Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



E-60 -	Oak	Valley	' Lane
		,	

			PAF	RT I. I	MAINT	FENANC	E FA		NFO	RMA	TION								
Facility Name	Oak Valley	ak Valley Lane					Facility ID E-60												
Location	Oak Valley	Lane							•										
Latitude <sup>1</sup>	33.14264	5	5 Longitude <sup>1</sup> -117.020359 Maintenance Frequency (						(yea	rs)			Anı	nually	/				
Maintenance Fa	acility Type		Outlet				I	_ining Ty	ре	Earth	nen								
Proposed Main Activities	tenance	Trimm	nulated sedimo ing of native t me willow tree	rees/	shrubs	s as need	ded w	ith hand	tools			y do	wnstre	am of	out	let a	nd bl	ocking	
Will work occur	when wate	er is in t	he channel?		Y N N I If Yes, will dewatering or wate diversion be needed?							ater	r y ⊠ n 🗆						
					PART	II. SURV	'EY I	NFORMA	ATIO	N									
Surveyors			ntes and Willia	am Ko	ohn					Da	ate of S	Surv	еу		2/	/26/2	2019		
Was water in th survey?	e channel	at the ti	ime of the		Y	□ N	$\boxtimes$	Hydro	ology	у Туре	e <sup>2</sup>	Ρ		I 🛛	E	Ξ		<b>)</b>	
Nearest Named	d Waterbod	y San	Dieguito Cree	ek				NWI	Inde	x Fre	shwat	er P	ond						
NRCS Soils	Escondi	do very	fine sandy lo	am, 1	5 to 3	0 percen	t slop	es											
Section II.a. Se	ummary of	USAC	E/RWQCB/CI	DFW	Water	rs of the	U.S.	and Sta	te W	/ithin	the M	laint	enanc	e Fac	ility				
USACE 404/RWQCB 401 Jurisdicti			ction	Y	Y 🖾 N 🔲 USACE 404 Regulated .					Only 1				■ N ⊠ Temporary diversion tures are regulated					
USACE Nonwe Waters Present		Y 🗆	] N 🛛			/etland resent						Ν							
Associated Dat	asheet(s)		Wetland Sar	mple	Point	1.1 and 1	1.2												
Summary of Aquatic	Type of J	urisdictio	onal Water	nal Water				Habitat Description. <sup>3</sup>					Acres Delineated within Maintenance Footprint <sup>4</sup>					Impac	t Tier⁵
Habitats (Waters of the	Wetla	nd Wat	ers					V/E				0.016						1	
U.S. and State)				•	т					TOTAL 0.016									
Section II.b. S	ummary of	f CDFN	Waters of th	ne Sta	ate Or	nly Withi	n the	Mainter	nanc	e Fac	ility								
CDFW 1600 Jurisdiction Bey USACE Waters		Y	″ 🛛 N 🗌		CDFW Regulated Activity					Y 🖾				Ν	N 🗌				
Summary of Aquatic	Type of J	urisdictio	onal Water			at Description <sup>3</sup>					Deline enance				Impa	ct Tier⁵			
Habitats (Waters of the		ian Exte	ent					V/E						0.0	016				
State Only)											ΤΟΤΑ	۱L		0.	016				
Section II.c. S	ummary o	f Veget	ation Commu	ınitie	s and	Cover 1	ypes	Within	and	Adja	cent t	o th	e Main	tenar	ice l	Faci	lity		
				Acres within Study					Area <sup>6</sup>										
Vegetation Communities and Cover Types		Maintenar Footprin					Total			Dominant/Significant Species									
Riparian and W																			
Emergent We	tland		-		(	0.196		0.196 Juncus a			ncus acutus, Distichlis spicata								
Southern Will	ow Scrub		0.016		(	0.143		0.159 Salix lasiolep			ois								
Subtotal Riparian and Wetland			0.016	0.340				0.35	5										

Upland									
Diegan Coastal Sage Scrub	0.017	0.017	Eriogonum fasciculatum						
Subtotal Upland	0.017	0.017							
Other Land Cover Types									
Urban/Developed	-	0.540	0.540						
Disturbed Habitat	-	0.040	0.040						
Subtotal Other Land Cover Types	-	0.579	0.579						
GRAND TOTAL <sup>6</sup>	0.016	0.936	0.951						
Section II.d. Threatened/Endange	ered/Special	Status Species With	hin the Vicinity o	of the Maintenance Facility <sup>7</sup>					
Special status species observed du field surveys within the Facility Buff	er	None							
Threatened/Endangered species hi known to occur within the Facility B	storically uffer	N/A							
Threatened/Endangered species ha Designated Critical Habitat within th Buffer		None							
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer		Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE)							
Other non-listed special status spec historically known to occur within th Buffer		None							
Other non-listed special status spec historically known to occur within 1. the Facility Buffer		Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC)							
Are species surveys recommended	l?	Y 🛛 N 🗌	If Yes, for what species?	Least Bell's vireo during breeding season and San Diego Ambrosia					
Will work occur in the breeding sea	son (Feb-Au	gust)?		Y N D					
	Р	ART III. ADDITIONA	L NOTES/COMM	IENTS					

Channel starts at an outfall structure, flow indicators such as wrack, sediment deposition, and minor shelving observed. Area tends to sheetflow the area as a clear channel was not observed however the area supports wetland habitat. Within the buffer area there are old irrigation lines and dead Typha that seems to indicate that the downstream area was irrigated frequently in the past, however no current hydrology was observed within that area.

# Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

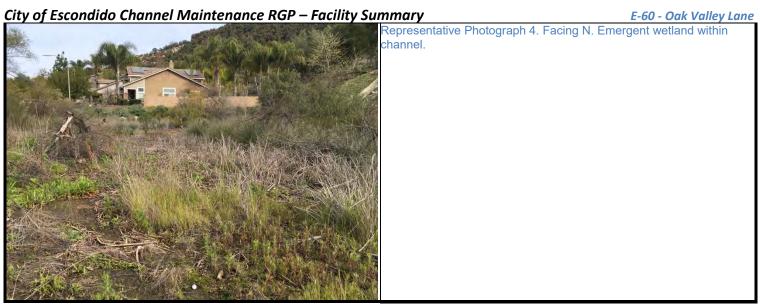
5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is

included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).





# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Char	nel Maintena	ince RGP	City/County:Es	condido/San Die	ego	Sampling Date:2	/26/2019
Applicant/Owner: City of Escondido				Sta	te:CA	Sampling Point:	-60 WSP 1.1
Investigator(s): Lanika Cervantes; W	illiam Kohn		Section, Towns	hip, Range:			
Landform (hillslope, terrace, etc.): Drai	nage		Local relief (co	ncave, convex, no	ne):concave	Slo	oe (%):0
Subregion (LRR):C - Mediterranean	California	Lat: 33	.142687	Long:-11	7.020346	Datu	m:
Soil Map Unit Name: Escondido very	fine sandy loa	am, 15 to 30 j	percent slopes		NWI classific	cation:Freshwater	Pond
Are climatic / hydrologic conditions on t	he site typical fo	or this time of y	ear?Yes 🖲	No 🔿 (lf r	no, explain in R	Remarks.)	
Are Vegetation Soil or H	lydrology	significantl	y disturbed?	Are "Normal Ci	rcumstances"	present? Yes 🖲	No 🔿
Are Vegetation Soil or H	lydrology	naturally p	roblematic?	(If needed, expl	ain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS - A	ttach site m	ap showing	g sampling p	oint locations	, transects	, important fea	atures, etc.
Hydrophytic Vegetation Present?	Yes 💿	No 🔘					
Hydric Soil Present?	Yes 💽	No 🔘	Is the S	ampled Area			
Wetland Hydrology Present?	Yes 💽	No 🔘	within a	Wetland?	Yes 🔘	No O	

Remarks:Sample point taken near outfall structure within the dense wetland area.

### VEGETATION

	Absolute	Dominant		Dominance Test w	orksheet	:		
Tree Stratum (Use scientific names.)		Species?		Number of Dominan				
1.Salix laseolepis	50	Yes	FACW	That Are OBL, FAC	N, or FAC	C: 3	(	A)
2				Total Number of Do	minant			
3				Species Across All S	Strata:	4	(	B)
4				Percent of Dominan	t Snacias			
Total Cove Sapling/Shrub Stratum	r: 50 %			That Are OBL, FAC			) % (	A/B)
1.Baccharis salicifolia	10	Yes	FAC	Prevalence Index v	vorkshee	et:		
2.	·	·		Total % Cover of	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.				FACW species	75	x 2 =	150	
5.				FAC species	10	x 3 =	30	
Total Cover	: 10 %			FACU species		x 4 =	0	
Herb Stratum	10 /0			UPL species	5	x 5 =	25	
1. Juncus acutus	25	Yes	FACW	Column Totals:	90	(A)	205	(B)
2. <i>Heterotheca grandiflora</i>	5	Yes	Not Listed		20			. ,
3.				Prevalence Inc			2.28	
4.				Hydrophytic Veget	ation Ind	licators:		
5.			·	X Dominance Tes	t is >50%	, D		
6.				× Prevalence Inde	ex is ≤3.0	1		
7.	·	·		Morphological A		ns <sup>1</sup> (Provide s n a separate s		ng
8.							,	
Total Cover	30 %			Problematic Hyd	aropnytic	vegetation (	Explain)	)
Woody Vine Stratum	2 0 70			1				
1				<sup>1</sup> Indicators of hydric be present.	soil and	wetland hyd	rology n	nust
2								
Total Cover	: %			Hydrophytic				
	of Biotic C		%	Vegetation Present?	Yes 🖲	No 🔿		
Remarks: Area is dominated with wetland vegetation	on. Very f	lat area.						

### SOIL

Profile Des	cription: (Describe t	to the de	pth needed to docum	ent the	e indicator	or confirm	m the absence of	indicators.)	
Depth	Matrix		Redox	Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rei	marks
0-4	10-YR 2/1	100	N/A				Loamy/Clay	moist soils	
4-16	10 YR 4/2	85	5YR 4/6	15	С	M	Loamy/Clay	_	
								_	
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM	/=Reduced Matrix, CS	=Cover	ed or Coate	ed Sand G	arains. <sup>2</sup> Locati	on: PL=Pore Lining,	M=Matrix.
Hydric Soil	Indicators: (Applicabl	e to all L	RRs, unless otherwise	noted.)			Indicators for	Problematic Hydric	Soils:
Histoso	l (A1)		Sandy Redox	(S5)			1 cm Mu	ck (A9) ( <b>LRR C</b> )	
	pipedon (A2)		Stripped Mat	rix (S6)	)		2 cm Mu	ck (A10) ( <b>LRR B</b> )	
Black H	listic (A3)		Loamy Muck	y Mine	ral (F1)		Reduced	l Vertic (F18)	
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matr	ix (F2)		Red Pare	ent Material (TF2)	
	ed Layers (A5) (LRR C	;)	X Depleted Ma	trix (F3	)		Other (Ex	xplain in Remarks)	
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	e (F6)				
	ed Below Dark Surface	e (A11)	Depleted Da		( )				
Thick D	ark Surface (A12)		Redox Depre		(F8)		<sup>3</sup> Indicators of	hydrophytic vegetati	on and
	Mucky Mineral (S1)		Vernal Pools	(F9)			wetland hyd	rology must be prese	ent,
Sandy	Gleyed Matrix (S4)						unless distu	rbed or problematic.	
Restrictive	Layer (if present):								
Type:								-	-
Depth (ir	nches):						Hydric Soil Pi	resent? Yes 🖲	Νο 🔿
Remarks: R	edox observed with	hin this	area.						

## HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	X Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (	C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (C6)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 💿	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes No ( includes capillary fringe)	Depth (inches): Wetland	Hydrology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if av	ailable:
Remarks:Sediment and drift deposition observe	ed. Lots of sediment deposition directly d	ownstream of outfall. Area is very flat and
water tends to slowing flow downstre	am. No very clear break in slope in this a	rea indicating main channel.

# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance RGP	City/County: Escondido/Sa	n Diego	Sampling Date: 2/26/2019
Applicant/Owner: City of Escondido		State:CA	Sampling Point:E-60 WSP 1.2
Investigator(s):Lanika Cervantes; William Kohn	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Outerfloodplain	Local relief (concave, conve	ex, none):none	Slope (%):0
Subregion (LRR).C - Mediterranean California Lat: 33	.142756 Lor	ng:-117.020310	Datum:
Soil Map Unit Name: Escondido very fine sandy loam, 15 to 30	percent slopes	NWI classif	ication:Freshwater Pond
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 💿 No 🔿	(If no, explain in	Remarks.)
Are Vegetation Soil or Hydrology significant	y disturbed? Are "Norn	nal Circumstances'	present? Yes 💿 No 🔿
Are Vegetation Soil or Hydrology naturally p	roblematic? (If needed	l, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locat	ions, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes  No			
Hydric Soil Present? Yes No 💿	Is the Sampled Area	а	
Wetland Hydrology Present? Yes No (	within a Wetland?	Yes C	No 🖲

Remarks:Sample point taken approximately 1.5 feet higher in elevation from 1.1.

### VEGETATION

	Absolute	Dominant		Dominance Test worksho	et:		
Tree Stratum (Use scientific names.)		Species?		Number of Dominant Spec			,
1.Salix laseolepis	10	Yes	FACW	That Are OBL, FACW, or F	FAC: 2	(A)	.)
2				- Total Number of Dominant			
3				Species Across All Strata:	2	(B)	)
4				Percent of Dominant Spec	ies		
Sapling/Shrub Stratum Total Cove	r: 10 %			That Are OBL, FACW, or F		).0 % (A/	/B)
1.				Prevalence Index worksh	ieet:		
2.				Total % Cover of:	Multiply	/ by:	
3.				OBL species	x 1 =	0	
4.				FACW species 70	x 2 =	140	
5.			·	FAC species	x 3 =	0	
Total Cover	: %		-	FACU species	x 4 =	0	
Herb Stratum				UPL species 10	x 5 =	50	
1. Juncus acutus	60	Yes	FACW	Column Totals: 80	(A)	190	(B)
2. Erodium sp.	10	No	Not Listed				( )
3.				Prevalence Index =	_,	2.38	
4.				Hydrophytic Vegetation			
5.				X Dominance Test is >5	0%		
6.				Prevalence Index is ≤			
7				Morphological Adapta			
8				- Problematic Hydrophy	•	,	
Total Cover	70 %				lio vogotation	(Explain)	
1				<sup>1</sup> Indicators of hydric soil a	nd wetland hyd	drology mu	ust
2.				be present.			
Total Cover	%			Hydrophytic Vegetation			
	r of Biotic C		%	Present? Yes	• No ()		
Remarks: Area is dominated by juncus but no hydro	ology indi	icators wit	thin this are	ea.			

### SOIL

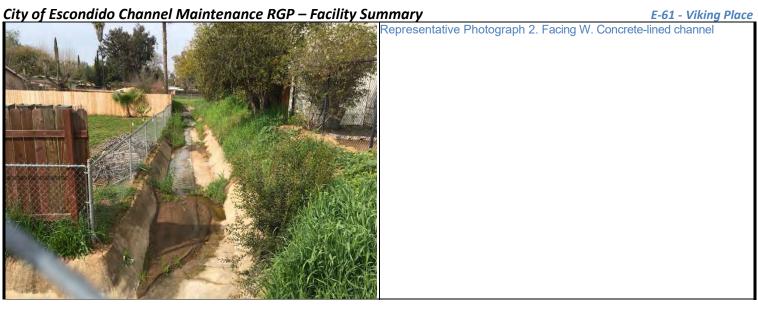
Profile Des	scription: (Describe	to the de	pth needed to docu	ment the indicato	or or confirm	m the absence of indicators.)	
Depth	Matrix		Redo	ox Features			
(inches)	Color (moist)	%	Color (moist)	%Туре	<sup>1</sup> Loc <sup>2</sup>	Texture Ren	narks
0-14	10-YR 4/3	100	N/A			Loamy/Clay	
<sup>1</sup> Type: C=0	Concentration, D=Depl	letion, RN	I=Reduced Matrix, C	S=Covered or Coa	ated Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, I	M=Matrix.
Hydric Soil	Indicators: (Applicabl	le to all Li	RRs, unless otherwis	e noted.)		Indicators for Problematic Hydric S	Soils:
Histoso	ol (A1)		Sandy Rede	ox (S5)		1 cm Muck (A9) (LRR C)	
	Epipedon (A2)		Stripped M	( )		2 cm Muck (A10) ( <b>LRR B</b> )	
	Histic (A3)			cky Mineral (F1)		Reduced Vertic (F18)	
	gen Sulfide (A4)			eyed Matrix (F2)		Red Parent Material (TF2)	
	ed Layers (A5) (LRR C	<b>C</b> )	Depleted N	. ,		Other (Explain in Remarks)	
	luck (A9) ( <b>LRR D</b> )			rk Surface (F6)			
	ed Below Dark Surface	e (A11)		Dark Surface (F7)			
	Dark Surface (A12)		·	pressions (F8)		<sup>3</sup> Indicators of hydrophytic vegetation	
	Mucky Mineral (S1)		Vernal Poo	ols (F9)		wetland hydrology must be prese	nt,
Sandy	Gleyed Matrix (S4)					unless disturbed or problematic.	
	e Layer (if present):						
Type:							
Depth (ii	nches):					Hydric Soil Present? Yes 🔿	No 🖲
Remarks: N	No Redox observed	within the	nis area.				
1							

# HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living R	Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils	s (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 🖲	Depth (inches):	
Water Table Present? Yes O No 🖲	Depth (inches):	
Saturation Present? Yes No ( (includes capillary fringe)	Depth (inches): We	etland Hydrology Present? Yes 🔿 No 💿
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections	s), if available:
Remarks:No hydrology indicators observed v	within this area. Soils were still moist.	, but no redox. Area about 1.5 feet higher in
elevation from 1.1.		Č.

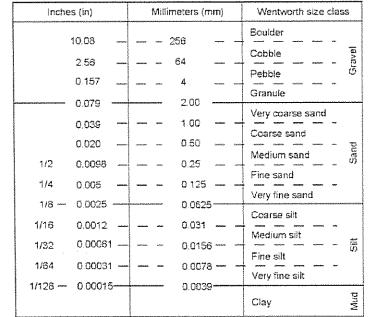
			PA	RT I. I	AINTENA				ATION			
Facility Name	Viking Plac	e					Facility ID	E-6	61			
Location	Mountain \	/iew Dri	ive and Vikin	g Plac	e							
Latitude <sup>1</sup>	33.12700	8 I	Longitude <sup>1</sup>	-11	7.040172		Maintenan	ce Fre	quency (y	/ears)	Annual	ly
Maintenance Fa	cility Type	(	Channel				Lining Type	e Co	ncrete			
Drenssed M		Remo	ove accumul	ated s	ediment and	d vege	etation within	Concr	ete Chan	Inel		
Proposed Maint Activities	enance	Equip	pment will be	stage	d on develo	oped a	ireas adjacen	t to ch	annel.			
Will work occur	when wate	er is in tl	he channel?		Y	N			ill dewate be need	ering or wa led?	ter Y 🛛 N	
					PART II. SU	JRVEY	(INFORMAT	ION				
Surveyors L	anika Cer	vantes a	and William I	Kohn				C	ate of Su	urvey	2/26/2019	
Was water in the survey?	e channel :	at the ti	me of the		Y 🛛	N	Hydrolo	ogy Ty	pe <sup>2</sup>	P 🗌 I	□ E ⊠	o 🗆
Nearest Named	Waterbod	y Esco	ondido Creek				NWI In	dex N	ot <mark>classif</mark> i	ied		
NRCS Soils Pla	acentia sar	ndy loar	m, 2 to 9 per	cent sl	opes							
Section II.a. Su	immary of	USAC	E/RWQCB/C	DFW	Waters of t	the U.	S. and State	Withi	n the Ma	intenance	Facility	
USACE 404/RW	VQCB 401	Jurisdio	ction	Y	N N		USACE 404	Regul	ated Activ	vity	Y 🗌 N	$\boxtimes$
					_			0			Only Temporar structures are r	y diversion
USACE Nonwet Waters Present		Y 🛛	] N 🗆		ACE Wetlan ers Present		Y 🗌 N	$\boxtimes$	Datap Taker	point(s) n	Y 🖾 N	
Associated Data	asheet(s)		OHWM Dat	ta She	et							
Associated Data Summary of Aquatic		urisdictic	OHWM Dat	ta She		Habita	t Description. <sup>3</sup>				elineated within nance Footprint⁴	Impact Tier⁵
Summary of Aquatic Habitats	Type of J	urisdictio	onal Water	ta She		Habita	t Description. <sup>3</sup>					Impact Tier⁵
Summary of Aquatic	Type of J		onal Water	ta She		Habita	•		TOTAL	Mainter	nance Footprint <sup>4</sup>	-
Summary of Aquatic Habitats (Waters of the	Type of J	tland W	l onal Water /aters				U/C	nce Fa		Mainter	nance Footprint <sup>4</sup>	-
Summary of Aquatic Habitats (Waters of the U.S. and State)	Type of June 1990	tland W	/aters / Waters of t	he Sta		ithin t	U/C	nce Fa		Mainter	nance Footprint <sup>4</sup>	-
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of	Type of June Nonwe	tland W CDFW Y	/aters /aters / Waters of t	he Sta	ate Only Wi	<i>ithin t</i> julatec	U/C	nce Fa		Mainter	0.035 0.035	-
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats	Type of J Nonwe	tland W CDFW Y	Jonal Water /aters / Waters of t / ∑ N [ Donal Water	he Sta	ate Only Wi	<i>ithin t</i> julatec	U/C the Maintena d Activity	nce Fa		Mainter	nance Footprint <sup>4</sup> 0.035         0.035         N         Delineated within	IV
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the	Type of J Nonwe	tland W	Jonal Water /aters / Waters of t / ∑ N [ Donal Water	he Sta	ate Only Wi	<i>ithin t</i> julatec	U/C the Maintena d Activity at Description <sup>3</sup>	nce Fa		Mainter Y X Mainte	nance Footprint <sup>4</sup> 0.035         0.035         N         Delineated within nance Footprint <sup>4</sup>	IV Impact Tier⁵
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only)	Type of J Nonwe Immary of ond Type of J Channe	tland W CDFW Y urisdictic	onal Water /aters / Waters of t / ⊠ N [ onal Water	he Sta	ate Only Wi	ithin t julatec Habita	U/C the Maintena d Activity at Description <sup>3</sup> U/C		acility TOTAL	Mainter	nance Footprint <sup>4</sup> 0.035         0.035         N         Delineated within nance Footprint <sup>4</sup> 0.047         0.047	IV Impact Tier⁵
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su	Type of J Nonwe Immary of ond Type of J Channe Immary of	tland W CDFW Y urisdictic el Bank	onal Water /aters / Waters of t / ⊠ N [ onal Water	he Sta	ate Only Wi	ithin t julated Habita	U/C the Maintena d Activity at Description <sup>3</sup> U/C		acility TOTAL	Mainter	nance Footprint <sup>4</sup> 0.035         0.035         N         Delineated within nance Footprint <sup>4</sup> 0.047	IV Impact Tier⁵
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su Vegetation Co	Type of J Nonwe Immary of ond Type of J Channe Immary of	tland W CDFW Y urisdictic el Bank	onal Water /aters / Waters of t / ⊠ N [ onal Water	he Sta	ate Only Wi CDFW Reg s and Cove	ithin t julated Habita er Typ tudy A	U/C the Maintena d Activity at Description <sup>3</sup> U/C Des Within an Area <sup>6</sup>		acility TOTAL	Mainter	nance Footprint <sup>4</sup> 0.035         0.035         N         Delineated within nance Footprint <sup>4</sup> 0.047         0.047	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su Vegetation Co	Type of Junior Monwelling Monwell	tland W CDFW Y urisdictic el Bank	Aters  / Waters of t  / Maintena	he Sta	ate Only Wi CDFW Reg s and Cove	ithin t julated Habita er Typ tudy A	U/C the Maintena d Activity at Description <sup>3</sup> U/C Des Within an Area <sup>6</sup>		acility TOTAL	Mainter	Annee Footprint <sup>4</sup> 0.035 0.035 0.035 N Delineated within nance Footprint <sup>4</sup> 0.047 0.047 0.047 enance Facility	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su Vegetation Co Cover	Type of Junnary of ond Type of J Channe Ummary of ommunitie r Types	tland W CDFW Y urisdictic el Bank	Aters  / Waters of t  / Maintena	he Sta	ate Only Wi CDFW Reg s and Cove	ithin t julated Habita er Typ tudy A Buffer	U/C the Maintena d Activity at Description <sup>3</sup> U/C Des Within an Area <sup>6</sup>		acility TOTAL	Mainter	Annee Footprint <sup>4</sup> 0.035 0.035 0.035 N Delineated within nance Footprint <sup>4</sup> 0.047 0.047 0.047 enance Facility	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su Vegetation Co Cover Upland Urban/Develop	Type of Junnary of ond Type of J Channe Ummary of ommunitie r Types	tland W CDFW Y urisdictic el Bank	Aters Aters Aters Aters Aters Aters Aters Aters Aters Ater Aters Ater Ater Ater Ater Ater Ater Ater Ater	he Sta	ate Only Wi CDFW Reg s and Cove es within St 100-Floot B	ithin t julated Habita er Typ tudy A Buffer	U/C the Maintena d Activity at Description <sup>3</sup> U/C Des Within an Area <sup>6</sup> Total		acility TOTAL	Mainter	Annee Footprint <sup>4</sup> 0.035 0.035 0.035 N Delineated within nance Footprint <sup>4</sup> 0.047 0.047 0.047 enance Facility	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su Vegetation Co Cover Upland Urban/Develop	Type of J Nonwe Immary of ond Type of J Channe Immary of Ommunitie r Types	tland W CDFW Y urisdictic el Bank Vegeta s and OTAL <sup>6</sup>	Aters Ater Ater Ater Ater Ater Ater Ater Ater	he Sta	ate Only Wi CDFW Reg S and Cove es within St 100-Floot B 2.158 2.158	ithin t julated Habita er Typ tudy A Buffer	U/C the Maintena d Activity at Description <sup>3</sup> U/C Des Within an Area <sup>6</sup> Total 2.209 2.209	nd Adj	TOTAL acent to	Mainter	Annee Footprint <sup>4</sup> 0.035 0.035 N Delineated within nance Footprint <sup>4</sup> 0.047 0.047 0.047 enance Facility t/Significant Spe	Impact Tier <sup>5</sup>
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. Su CDFW 1600 Jurisdiction Bey USACE Waters Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Su Vegetation Co Cover Upland	Type of J Nonwe Immary of ond Type of J Channe Immary of Channe Immary of Open open GRAND To Species obs thin the Fac	tland W CDFW Y urisdictic el Bank Vegeta s and OTAL <sup>6</sup> (Endang served c cility Bu	Aters Ater Aters Ater Ater Ater Ater Ater Ater Ater Ater	he Sta	ate Only Wi CDFW Reg S and Cove es within St 100-Floot B 2.158 2.158 tus Species	ithin t julated Habita er Typ tudy A Buffer	U/C the Maintena d Activity at Description <sup>3</sup> U/C Des Within an Area <sup>6</sup> Total 2.209 2.209	nd Adj	TOTAL acent to	Mainter	Annee Footprint <sup>4</sup> 0.035 0.035 N Delineated within nance Footprint <sup>4</sup> 0.047 0.047 0.047 enance Facility t/Significant Spe	Impact Tier <sup>5</sup>

Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird ( <i>Agelaius tricolor</i> ) Least Bell's vireo ( <i>Vireo bellii pusillus</i> )	
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Dulzura pocket mouse ( <i>Chaetodipus</i> o	californicus femoralis) (SSC)
Are species surveys recommended?	Y N N If Yes, for what species?	
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛛 N 🗆
F	PART III. ADDITIONAL NOTES/COMM	ENTS
Concrete-lined channel surrounded by urban de patchs of <i>Erodium sp.</i> and <i>Avena sp.</i> OHWM ta		
<ul> <li>included in the permit package.</li> <li>6. Totals may not add up due to rounding.</li> <li>7. Sources: California Natural Diversity Database (CNDDB) (CDFW)</li> </ul>	hen, C = Concrete dations and/or maintenance design changes. this RGP, and prescribes mitigation ratios for permanen 2019) and U.S. Fish and Wildlife Critical Habitat Data (U	
PART IN	<b>PRESENTATIVE FACILITY PHO</b> Representative P	TOGRAPHS hotograph 1. Facing N. Concrete-lined channel



	Arid West Ephemeral and Intermit	tent Streams OHWM Datasheet
	Project: City of Escandido Project Number: Stream: 1 Investigator(s): L. Cervantes	Date: $2/26/19$ Time: $10:00am$ Town: EscondidoState: $CA$ Photo begin file#:Photo end file#:
	Y $\square$ / N $\square$ Do normal circumstances exist on the site?	Location Details: E-61
	Y $\square$ / N $\not \square$ Is the site significantly disturbed?	Projection: Datum: Coordinates: See Figure
	Potential anthropogenic influences on the channel syst Concrete-lined channel s	em: urrainded by urban development
	Brief site description: Concrete channel with section mostly unvegetated with section	ections of nyinch sediment. is of eradium, avena, and malva.
C	Vegetation maps       Result         Soils maps       Most r         Rainfall/precipitation maps       Gage l	ber:
	Hydrogeomorphic I	Floodplain Units
· .	Active Floodplain	OHWM Paleo Channel
	<ul> <li>Procedure for identifying and characterizing the flood</li> <li>1. Walk the channel and floodplain within the study area vegetation present at the site.</li> <li>2. Select a representative cross section across the channel.</li> <li>3. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> <li>4. Repeat for other points in different hydrogeomorphic</li> <li>5. Identify the OHWM and record the indicators. Record Mapping on aerial photograph Digitized on computer</li> </ul>	to get an impression of the geomorphology and Draw the cross section and label the floodplain units. ristic of one of the hydrogeomorphic floodplain units. In class size) and the vegetation characteristics of the floodplain units across the cross section.

A State State State



### Wentworth Size Classes

stars starst 0 cm 1 0 in

Project ID: Cross sec Cross section drawing:		
WF	LEF. TETRACE E	
<u>OHWM</u>		
GPS point:		1. H
Indicators: Change in average sediment Change in vegetation species Change in vegetation cover	t texture es Other: Other:	
Comments: concrete channer (FF above c	hel, change in slope. Othum take channel bottom based on water s	n about
Floodplain unit: A Low-Flow	Channel Active Floodplain Low T	errace
Floodplain unit: A Low-Flow		errace the state
GPS point: Characteristics of the floodplain uni A verage sediment texture: $N/A$	iit: Concrete	
GPS point: Characteristics of the floodplain uni A verage sediment texture: $N/A$	iit: <u>Concrete</u> <u>8</u> % Shrub: <u>8</u> % Herb: <u>15</u> % Mid (herbaceous, shrubs, saplings)	ens of Ga Galeria (B Galeria (C Galeria Galeria G
GPS point: Characteristics of the floodplain unit A verage sediment texture: $\[Matharrow /A]$ Total veg cover: $\[Matharrow S] \$ Tree: $\[A]$ Community successional stage: $\[Matharrow NA]$ $\[Matharrow Early (herbaceous & seedling)$	iit: <u>Concrete</u> <u>8</u> % Shrub: <u>8</u> % Herb: <u>15</u> % Mid (herbaceous, shrubs, saplings)	ens of Ga Galeria (B Galeria (C Galeria Galeria G
GPS point: Characteristics of the floodplain unit A verage sediment texture: $\wedge /A$ Total veg cover: $\wedge \leq \%$ Tree: $A$ Community successional stage: $\square$ NA $\square$ Early (herbaceous & seedling Indicators: $\square$ Mudcracks	<pre>it: Concrete</pre>	ens of Ga Galeria (B Galeria (C Galeria Galeria G
GPS point: Characteristics of the floodplain unit A verage sediment texture:	nit: Concrete % Shrub: % Herb: 5 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature tree Soil development Surface relief	دین ۲۳۵۵ (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵)
GPS point: Characteristics of the floodplain unit A verage sediment texture:	nit: Concrete % Shrub: % Herb: 5 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature tree Soil development Surface relief	دین ۲۳۵۵ (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵)
GPS point: Characteristics of the floodplain unit A verage sediment texture:	nit: Concrete % Shrub: % Herb: 5 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature tree Soil development Surface relief	دین ۲۳۵۵ (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵)
GPS point: Characteristics of the floodplain unit A verage sediment texture:	nit: Concrete % Herb: <u>5</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature tree Soil development Surface relief	دین ۲۳۵۵ (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵) (یونی ۱۹۹۵)

roject ID: Cross section ID:	E-61 Date: 2/21		·
loodplain unit: Low-Flow Channel	Active Floodplain	Low Terrace	
PS point:			N
haracteristics of the floodplain unit: Average sediment texture: <u>Abble</u> Fotal veg cover: <u>0</u> % Tree: <u>16</u> % Sh Community successional stage: <u>NA</u> Early (herbaceous & seedlings)	rub: <u>5</u> % Herb: <u>50</u> % Mid (herbaceous, shru X. Late (herbaceous, shru		
		ios, matare reesj	
Image: Addicators:         Image: Mudcracks         Image: Addicator Reprint         Image: Addit Reprint <td>Soil development Surface relief Other: Other: Other:</td> <td></td> <td></td>	Soil development Surface relief Other: Other: Other:		
omments: Upper banks are eart nonnative herb spi	<u></u>	Langage of	
<b>Low-Flow Channel</b>	Active Floodplain	Low Terrace	
<b>Plood plain unit:</b> Low-Flow Channel <b>GPS point:</b> Characteristics of the flood plain unit:		promoto	
<b>Boodplain unit:</b> Low-Flow Channel	Active Floodplain	Low Terrace	
<b>I oodplain unit:</b> Low-Flow Channel <b>GPS point:</b>	Active Floodplain Active Floodplain Mid (herbaceous, shru Late (herbaceous, shru Soil development	Low Terrace % abs, saplings) .bs, mature trees)	
<b>`loodplain unit:</b> Low-Flow Channel         GPS point:	Active Floodplain Active Floodplain Mid (herbaceous, shru Active Floodplain Soil development Surface relief Other: Other: Other:	Low Terrace % hbs, saplings) ubs, mature trees)	
<b>`loodplain unit:</b> Low-Flow Channel         GPS point:	Active Floodplain Active Floodplain Mid (herbaceous, shru Active Floodplain Mid (herbaceous, shru Soil development Surface relief Other: Other: Other: Other: Other:	Low Terrace % hbs, saplings) ubs, mature trees)	

### E-62 – Reidy Creek – Lincoln Ave

			PAR	RT I. MAI	NTE	NANC	E F	ACILI	ry info	DRM	IATIO	Ν							
Facility Name	Reidy Creel	k – Lincoln A	Ave					Facil	ity ID	E-	-62								
Location	Reidy Creel	k/Lincoln Av	enue																
Latitude <sup>1</sup>	33.131138	89 Longi	tude <sup>1</sup>	-117.09	9401 <sup>-</sup>	11		Maintenance Frequency (years) Annually											
Maintenance Fa	cility Type	Chan	nel					Lining Type Concrete											
Proposed Maint Activities	enance	Remove a Equipmen					-							es.					
Will work occur when water is in the channel? Y N N If Yes, will dewee water diversion water diversion PART II. SURVEY INFORMATION											di	emp vers		coffer oructure	dam or e will be				
Surveyors	Lapika Co	ervantes an			(1 11.	SUR		INFO			Date o	of Qu	nuov			11/1	/2019		
Was water in the				Y		1 .	1	1	ludrolog									_	
survey?				r	$\boxtimes$				lydrolog			P		ID		Е		0	
Nearest Named	Waterbody	Reidy C	eek					١	WI Inde	ex	Riverir	ne							
NRCS Soils	Visalia sa	ndy loam,	2 to 5 p	percent	slop	es													
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility																			
USACE 404/RV	/QCB 401 J	urisdiction		Y     N     USACE 404 Regulated Activity     Y     Temporary regulated.							⊠ ersior	ı is							
USACE Nonwer Waters Present		Y 🛛 N		USACE Wetlan Presen	nd Waters 🛛 Y 🔲 N 🖾 🛛 Taken				pint(s)	Y	,		N	$\boxtimes$					
Associated Data	asheet(s)	N/A																	
Summary of	Type of Juris	dictional Wat	er			На	bitat I	Descrip	tion <sup>3</sup>				Acres Delineated within Maintenance Footprint <sup>4</sup>			Imp	act Tier⁵		
Aquatic Habitats	Nonwetl	and Waters						U/C					0.40				IV		
(Waters of the																			
U.S. and State)											т	OTAL		(	0.40	0			
Section II.b. Su	mmary of (	CDFW Wate	ers of th	ne State	Only	With	in th	e Mai	ntenan	ce F	acility	/							
CDFW 1600 Jun Beyond USACE		Y 🛛	N 🗆	]	CDI		-		ctivity				Y 🛛	N					
Summary of	Type of Jur	isdictional Wa	iter			Hab	oitat D	escript	ion <sup>3</sup>					es Delin ntenanc				Imp	act Tier⁵
Aquatic Habitats	Stream	bed						U/C						C	).40	)			IV
(Waters of the																			
State Only)												DTAL			).40				
Section II.c. Su						over i thin S				Adj	jacem	t to t	he Ma	intena	nce	e Fa	cility		
Vegetation Co	ommunities Types	and Cover	Main	tenance otprint	1	00-Fo Buffe	oot		Total			[	Domin	ant/Sig	gnif	ficar	nt Spe	cies	
Upland	e e elle re el					0.44			0.44		Sahin								
Non-Native W Eucalyptus Wo				-		0.11			0.11 0.36		Schinus molle Eucalyptus sp.								
Non-native Gr				-		0.30		0.37											
	Subtotal Up	land		-		0.84	!		0.84										

### City of Escondido Channel Maintenance RGP – Facility Summary Other Land Cover Types

Other Land Cover Types			-						
Disturbed habitat	-	1.16	1.16						
Urban/Developed	0.40	1.30	1.69						
Subtotal Other Land Cover Types	0.40	2.45	2.85						
GRAND TOTAL <sup>6</sup>	0.40	3.29	3.69						
Section II.d. Threatened/Endangered/S		Species Within	n the Vicinity o	of the Maintenance Facility					
Special status species observed during 20 field surveys within the Facility Buffer	None								
Threatened/Endangered species historica known to occur within the Facility Buffer	lly N/A	N/A							
Threatened/Endangered species having Designated Critical Habitat within the Faci Buffer		None							
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer       Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Swainson's hawk (Buteo swainsoni) (, ST) Western yellow-billed cuckoo (Coccyzus americanus occidentalis) (FT, SE) California black rail (Laterallus jamaicensis coturniculus) (, ST/FP)									
Other non-listed special status species historically known to occur within the Facility Buffer									
Other non-listed special status species historically known to occur within 1.0 mile the Facility Buffer	of Southe Orang Coast Burrow White- Pallid I Dulzur Towns Weste Pocket Big fre	Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California legless lizard ( <i>Anniella stebbinsi</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC) Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL) Pallid bat ( <i>Antrozous pallidus</i> ) (SSC) Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC) Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC) Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC) Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC) American badger ( <i>Taxidea taxus</i> ) (SSC)							
Are species surveys recommended?	Υ	N 🛛	If Yes, for what	N/A					
Will work occur in the breeding season (F	eb-August)?			Y N D					
	PART III.	ADDITIONAL	NOTES/COMM	IENTS					
PART III. ADDITIONAL NOTES/COMMENTS         Maintenance area starts at concrete apron north of Lincoln Avenue and then a concrete-lined box channel with vertical walls located south of Lincoln Avenue. Flowing water was present within the channel at the time of the surveys and other than algae no vegetation was present. Access into this site can occur from entering the concrete apron north of Lincoln and entering the box culvert. This is the downstream segment of Reidy Creek.         A small ephemeral drainage occurs in the buffer area. This drainage is natural bottom and unvegetated. It flows into Reidy Creek. No maintenance activities are proposed within this area.									
<ul> <li>Footnotes:</li> <li>1. Coordinates are based on the centroid of the facility.</li> <li>2. Hydrology Types: P = Perennial, I = Intermittent, E = Eph</li> <li>3. Habitat Descriptions: V = Vegetated, U = Unvegetated /</li> <li>4. Impact areas are subject to change based on agency rec</li> <li>5. The impact tier determines thresholds for O&amp;M activities included in the permit package.</li> <li>6. Totals may not add up due to rounding.</li> <li>7. Sources: California Natural Diversity Database (CNDDB)</li> </ul>	E = Earthen, C = Con ommendations and, as under this RGP, ar	crete /or maintenance desi nd prescribes mitigati	on ratios for perman	ent/repeated impacts. A methodology for determining impact tier is (USFWS 2019).					



### H-02 - 1840 S Centre City Pkwy

			PART	I. MAINTEN	ANCE F	ACILITY INF	ORMAT	ION				
Facility Name	1840 S Ce	ntre City	y Pkwy			Facility ID	H-02	A				
Location	1840 Sout	h Centre	e City Parkway									
Latitude <sup>1</sup>	33.10001	0 L	Longitude <sup>1</sup>	-117.040172		Maintenance	e Frequ	ency (ye	ars)	Annual	ly	
Maintenance F	acility Type	. (	Channel			Lining Type Earthen						
			ing RGP Site p	roposed for E	xpansio			ted sedir	ment and	weed removal.		
Proposed Mair Activities	ntenance	chan	nel for clean ex	cavation.		et and backhoe or excavator will be used to scoop sediment out of						
Will work occu	r when wate	er is in th	he channel?	ΥX	Ν				ing or wa	ter Y 🛛 N		
				_				e neede	d?			
Surveyere	Lopiko Cor	vontes	and William Ka					o of Sum		2/26/2040		
Surveyors Was water in t			and William Ko					e of Sur	wey	2/26/2019		
survey?				Y 🛛	N	Hydrolo	ду Туре	<sup>2</sup> P		🗆 E 🖾	<b>o</b>	
Nearest Name	d Waterbod	ly San	Dieguito River			NWI Ind	lex Not	classifie	b			
NRCS Soils	Placentia sa	ndy loar	n, 2 to 9 percei	nt slopes								
Section II a S	ummary o	f USACI	E/RWQCB/CDI	FW Waters of	the U.S	S. and State	Within 4	he Main	tenance	Facility		
USACE 404/R	WQCB 401	Jurisdic	ction	Y 🖾 N		USACE 404 F	Regulate	ed Activit	У	Y D N		
										Only Temporar structures are r		
USACE Nonwe Waters Presen		ΥX		USACE Wetla Waters Prese		Y 🗌 N		Datapo Taken	int(s)	Y 🗌 N	$\boxtimes$	
Associated Dat	tasheet(s)											
Summary of		of Jurisdic	ctional Water		Habit	at Description. <sup>3</sup>				elineated within ance Footprint⁴	Impact Tier⁵	
Aquatic Habita (Waters of the	ts Nonw	etland V	Naters			V/E			mannon	II		
U.S. and State	)						1	OTAL		0.090		
Section II.b. S	Summary o	f CDFW	/ Waters of the	State Only V	Vithin tl	he Maintenar	nce Faci	ilitv <sup>7</sup>				
CDFW 1600												
Jurisdiction Be USACE Waters		Y	N 🗌	CDFW Re	gulated	Activity			′ 🛛	N 🗌		
Summary of			ctional Water		Habi	tat Description <sup>3</sup>				Delineated within nance Footprint⁴	Impact Tier⁵	
Aquatic Habita (Waters of the			an Extent nel Bank			V/E V/E		[		0.088		
State Only)		Gnam				V/E		TOTAL		0.091 0.178	11	
Section II.c. S	Summary o	f Vegeta	ation Commun	ities and Cov	/er Typ	es Within and			ne Mainte	enance Facility		
					C 4	r00 <sup>6</sup>						
Vegetation C		es and		Acres within S	Study A	vrea						
Cov	er Types		Maintenanc Footprint	e 100-Foot	Buffer	Total		D	ominant	/Significant Spe	cies	
Riparian and V							1			<b>-</b>		
Unvegetated			0.090	<0.00		0.090						
Subtotal Ripa	arian and W	etland	0.090	<0.00	)1	0.090						
Upland Non-Native V	Voodland		0.088	0 40	7	0 495	Fr.	calvntus	ssp 1//2	shingtonia robus	ta	
INCH-INALIVE V							Jaiypius	oop., wa	Simigronia robus	ш,		
	Subtotal	Jpland	0.088	0.40	7	0.495						

Other Land Cover Types									
Urban/developed	0.001	3.630	3.631						
Subtotal Other Land Cover Types	0.001	3.630	3.631						
GRAND TOTAL <sup>6</sup>	0.179	4.038	4.216						
Section II.d. Threatened/Endang	ered/Special	Status Species Wit	hin the Vicinity of	the Maintenance Facility <sup>7</sup>					
Special status species observed du field surveys within the Facility Buff	None								
Threatened/Endangered species h known to occur within the Facility B	uffer	N/A							
Threatened/Endangered species has Designated Critical Habitat within the Buffer	ne Facility	None							
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer	ne Facility	Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST) Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FT, SE) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)							
Other non-listed special status spe historically known to occur within the Buffer		None							
Other non-listed special status spe historically known to occur within 1 the Facility Buffer	.0 mile of	Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California legless lizard ( <i>Anniella stebbinsi</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Coast horned lizard ( <i>Phrynosoma blainvillii</i> ) (SSC) Coronado skink ( <i>Plestiodon skiltonianus interparietalis</i> ) (SSC) Burrowing owl ( <i>Athene cunicularia</i> ) (SSC) Coastal cactus wren ( <i>Campylorhynchus brunneicapillus sandiegensis</i> ) (SSC) White-faced ibis ( <i>Plagadis chihi</i> ) (WL) Pallid bat ( <i>Antrozous pallidus</i> ) (SSC) Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC) Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC) Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC) Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC) American badger ( <i>Taxidea taxus</i> ) (SSC)							
Are species surveys recommended	1?	Y 🗌 N 🖾	If Yes, for what species?						
Will work occur in the breeding sea	son (Feb-Aug	ust)?		Y 🛛 N 🗆					

### PART III. ADDITIONAL NOTES/COMMENTS

Upstream segment of this channel is a roadside ditch that supports shelving and sediment deposition. No water was observed within this section of channel and channel is dominated with *Bromus diandrus*, *Erodium sp., Malva sp.,* and *Hordeum murinum*. A 4-foot-wide outfall enters the channel and downstream of that outlet the channel supported flowing water and lots of wrack and sediment deposition. Within the channel it was mostly unvegetated supporting palms, *Eucalyptus sp.,* and *Quercus agrifolia*.

#### Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).







H-14	-	Miller	Ave

									ION			
Facility Name	Miller Ave						Facility ID	H-14				
Location	Miller Aver	nue										
Latitude <sup>1</sup>	33.09504	5	Longitude <sup>1</sup>	-117.0	79358		Maintenance	Frequ	ency (y	ears)	Annual	V
Maintenance F	I acility Type		Channel				Lining Type	Earth		,		, ,
Maintenance r			move accumulat	ed sedi	ment and v	weed		Larti				
		T CI		icu scui		Necu	TCHIOVAI					
Proposed Main Activities	tenance					et and	l backhoe or e	excava	tor will I	pe used to	scoop sediment	out of
,			annel for clean e dragging of equ			(s and	d no equipme	nt in ch	annel.			
					_					ring or wat	er –	
Will work occur	when wate	er is in	the channel?	Y	M N	L			e neede			
				PAF	RT II. SURV	VEY	INFORMATIC	DN				
Surveyors	William Ko	hn and	d Ryan Layden						te of Su	rvov	2/27/2019	
Was water in th										ivey		
survey?				Y		N 🛛	Hydrolog	у Туре	<sup>2</sup> P		🗌 E 🖾	0
	d Waterboo	y Sa	n Dieguito Rive	r			NWI Inde	x Not	classifie	ed		
			n, 2 to 9 percent									
			CE/RWQCB/CD	OFW Wa								
USACE 404/R	NQCB 401	Jurisc	liction	ΥĽ	] N 🛛	1 L	JSACE 404 R	egulate	ed Activ	ity	Y 🗌 N	$\boxtimes$
											Only Temporary	
						_					structures are r	egulated
USACE Nonwe		ΥI	_ N ⊠	USACE	_	Y	′ □ N		Datap		Y D N	$\bowtie$
Waters Presen	L	· [		Presen	d Waters it				Taken			
Associated Dat	asheet(s)				-							
Summary of	. ,					Habita	at Description. <sup>3</sup>			Acres De	lineated within	
Aquatic Habita	ts Type of	of Juriso	dictional Water							Maintena	Impact Tier⁵	
(Waters of the		nwetla	nd Waters				1.1./				0.016	П
U.S. and State							U/E					
									FOTAL		0.016	
	ummary o	f CDF	W Waters of th	e State	Only With	in th			-		0.016	
CDFW 1600		f CDF	W Waters of the Y □ N ⊠		Only With		e Maintenane		-	Y 🛛	0.016 N	
CDFW 1600 Jurisdiction Be USACE Waters	yond	f CDF					e Maintenane		-	Y 🛛		
Jurisdiction Be USACE Waters	yond S		Y 🗌 N 🖾			ated <i>i</i>	e Maintenane		-	Acres D	N	Impact Tior <sup>5</sup>
Jurisdiction Be USACE Waters Summary of Aquatic Habita	yond S Type o	of Juriso	Y 🗌 N 🖾 dictional Water			ated <i>i</i>	e Maintenand Activity at Description <sup>3</sup>		-	Acres D	N	Impact Tier <sup>5</sup>
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the	yond S Type o	of Juriso	Y 🗌 N 🖾			ated <i>i</i>	e <i>Maintenano</i> Activity	ce Faci	ility	Acres D	N elineated within ance Footprint <sup>4</sup> 0.030	Impact Tier <sup>5</sup>
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only)	yond s ts	of Juriso	Y D N A	CD	FW Regula	ated A	e Maintenand Activity at Description <sup>3</sup> U/E	ce Faci	ility TOTAL	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030	
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only)	yond s ts	of Juriso	Y D N M dictional Water hannel Bank	CD nities a	FW Regula	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and	ce Faci	ility TOTAL	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030	
Jurisdiction Bey USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C	yond s ts <i>Type o</i> cummary o communitio	of Juriso Cl	Y D N M dictional Water hannel Bank	nities a	FW Regula	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and	ce Faci	ility TOTAL	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030	
Jurisdiction Bey USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C	yond s ts fummary o	of Juriso Cl	Y D N M dictional Water hannel Bank	nities al Acres v ce	FW Regula	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and	ce Faci	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and V	yond ts Type of ourmary o communitio er Types	of Juriso Cl	Y IN X dictional Water hannel Bank etation Commu Maintenan Footprint	nities al Acres v ce	nd Cover within Stud	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total	ce Faci	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated	yond ts Type of ts cummary o communition communitio	of Juriso Cl f Vege es and	Y N Maintenan Footprint	nities al Acres v ce	oFW Regula nd Cover within Stud 0-Foot Buf 0.009	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total	ce Faci	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated Subtotal Ripa	yond ts Type of ts cummary o communition communitio	of Juriso Cl f Vege es and	Y N Maintenan Footprint	nities al Acres v ce	nd Cover within Stud	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total	ce Faci	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated Subtotal Ripa	yond ts Type of ts communitie communitie communitie tran and W	of Juriso Cl f Vege es and	Y N Maintenan Footprint	nities al Acres v ce	oFW Regula nd Cover T within Stud 0-Foot Buf 0.009	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total	Adjac	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated Subtotal Ripa	yond ts Type of cummary of communitie er Types Vetland Channel orian and W assland	of Juriso Cl f Vege es anc éetland	Y N X dictional Water hannel Bank etation Commu Maintenan Footprint 0.030	nities al Acres v ce	nd Cover within Stud 0-Foot Buf 0.009 0.009	Habit	e Maintenand Activity tat Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total 0.039 0.039	Adjac	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated Subtotal Ripa	yond ts Type of ourmary of communitie er Types Vetland Channel trian and W assland Subtotal 0	of Juriso Cl f Vege es anc éetland	Y N X dictional Water hannel Bank etation Commu Maintenan Footprint 0.030	nities al Acres v ce	PFW Regula nd Cover 1 within Stud 0-Foot Buff 0.009 0.009 0.097 0.097	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total 0.039 0.039 0.097 0.097	Adjac	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated Subtotal Ripa Upland	yond ts Type of ourmary o communition or Types Vetland Channel rrian and W assland Subtotal 0 ver Types	of Juriso Cl f Vege es anc éetland	Y N X dictional Water hannel Bank etation Commu Maintenan Footprint 0.030	nities al Acres v ce	PFW Regula nd Cover 1 within Stud 0-Foot Buf 0.009 0.009 0.097 0.097 2.731	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total 0.039 0.039 0.097 0.097 2.731	Adjac	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II
Jurisdiction Bey USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Cove Riparian and W Unvegetated Subtotal Ripa Upland Nonnative Gr	yond ts Type of communities	of Juriso Cl f Vege es anc fetland Jpland	Y N X dictional Water hannel Bank A Maintenan Footprint 0.030 0.030 0.030 1 - 1 - 1 - 1 - 5 - 5 -	nities al Acres v ce	PFW Regula nd Cover 1 within Stud 0-Foot Buff 0.009 0.009 0.097 0.097	Habit	e Maintenand Activity at Description <sup>3</sup> U/E s Within and rea <sup>6</sup> Total 0.039 0.039 0.097 0.097	Adjac	ility TOTAL ent to t	Acres D Mainten	N elineated within ance Footprint <sup>4</sup> 0.030 0.030 0.030 0.030	II

city of Escondido Channel Maintenanci						
	al Status Species Within the Vicinity of the Maintenance Facility <sup>7</sup>					
Special status species observed during 2019	None					
field surveys within the Facility Buffer						
Threatened/Endangered species historically	N/A					
known to occur within the Facility Buffer						
Threatened/Endangered species having Designated Critical Habitat within the Facility	None					
Buffer	None					
Threatened/Endangered species historically						
known to occur within 1.0 mile of the Facility	Tricolored blackbird (Agelaius tricolor) (, CE)					
Buffer	Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC)					
	Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE)					
	Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST)					
	Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> ) (FE, ST) California black rail ( <i>Laterallus jamaicensis coturniculus</i> ) (, ST/FP)					
	California black fall (Lateralius jarriaicensis coturniculus) (, ST/FP)					
Other non-listed special status species						
historically known to occur within the Facility	None					
Buffer						
Other non-listed special status species	Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1)					
historically known to occur within 1.0 mile of	Southern California legless lizard (Anniella stebbinsi) (SSC)					
the Facility Buffer	Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC)					
	Coast horned lizard (Phrynosoma blainvillii) (SSC)					
	Coronado skink (Plestiodon skiltonianus interparietalis) (SSC)					
	Burrowing owl (Athene cunicularia) (SSC)					
	White-faced ibis ( <i>Plagadis chihi</i> ) (WL)					
	Pallid bat (Antrozous pallidus) (SSC)					
	Coastal cactus wren ( <i>Campylorhynchus brunneicapillus sandiegensis</i> ) (SSC)					
	Dulzura pocket mouse ( <i>Chaetodipus californicus femoralis</i> ) (SSC)					
	Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> ) (SSC) Western yellow bat ( <i>Lasiurus xanthinus</i> ) (SSC)					
	Pocketed free-tailed bat ( <i>Nyctinomops femorosaccus</i> ) (SSC)					
	Big free-tailed bat ( <i>Nyctinomops macrotis</i> ) (SSC)					
	American badger ( <i>Taxidea taxus</i> ) (SSC)					
Are species surveys recommended?	Y N If Yes, for what					
	species?					
Will work occur in the breeding season (Feb-A	ugust)? Y 🗌 N 🖾					
	PART III. ADDITIONAL NOTES/COMMENTS					
Nithin the maintenance facility, there is only a	asphalt dip within the road. No jurisdictional waters occur within this area. Within the					
buffer area, there is an earthen roadside ditch						
valier area, mere is an earmen roadside alter	and supports showing and is unvogetated.					
a						
Footnotes:						
<ol> <li>Coordinates are based on the centroid of the facility.</li> </ol>						
<ol> <li>Hydrology Types: P = Perennial, I = Intermittent, E = Ephemera</li> </ol>	•					
3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Ear						
<ol> <li>Impact areas are subject to change based on agency recomme</li> <li>The impact tier determines thresholds for O&amp;M activities undeincluded in the permit package.</li> </ol>	ndations and/or maintenance design changes. er this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is					

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

# City of Escondido Channel Maintenance RGP – Facility Summary PART IV. REPRESENTATIVE FACILITY PHOTOGRAPHS

Representative Photograph 1. Facing S. Roadside drainage, mostly

H-15 -	Sierra	Linda

			P	ART I.	MAINTEN	ANCE	FACI		ORMA	TION				
Facility Name	Sierra Linda	a					Fac	cility ID	H-15	5				
Location	Sierra Linda	a Driv	е											
Latitude <sup>1</sup>	33.068112	2	Longitude <sup>1</sup>	-11	17.050255		Ma	intenance	e Frequ	iency (y	years)		Annuall	у
Maintenance F	acility Type		Outlet				Lin	ing Type	Earthe	en				
		Ren	nove accumu	lated	sediment a	and wee	ed ren	noval						
Proposed Mair Activities	ntenance	out	ipment will b sediment to u dragging of e	unclog	outlet.							avator wil	l be used	to scoop
Will work occu	r when wate	r is in	the channel?		Y 🖂	Ν					tering or be needed	? Y		
					PART II. S	SURVE	Y INF	ORMATI				_		
Surveyors	William Koh	n							Da	ate of S	Survey	:	2/27/2019	
Was water in t survey?	he channel a	it the t	time of the		Y 🗆	Ν	$\boxtimes$	Hydrolo	ду Тур	e <sup>2</sup>	Р 🗌	I 🗌	E	o 🗆
Nearest Name	d Waterbody	/ Sar	n Dieguito Ri	ver				NWI Ind	ex No	t classi	fied			
NRCS Soils	/ista coarse	sandy	loam, 15 to	30 per	cent slope	S								
Section II.a. S	Summary of	USA	CE/RWQCB/	CDFN	/ Waters o	of the U	l.S. ar	nd State	Within	the Ma	aintenanc	e Facility	y	
USACE 404/R	WQCB 401 .	Jurisd	iction	Y	N N		USA	CE 404 F	Regulat	ed Acti	vity	Y [	N	$\boxtimes$
						_			0		,	Only T		diversion
USACE Nonwe Waters Presen		Y 🛛	⊠ N 🗆	We	ACE etland Wate esent	and Waters Y I N 🛛			$\boxtimes$	Datap Take	point(s) n	Y	□ N	
Associated Da	tasheet(s)													
Summary of A		Ту	vpe of Jurisdicti	onal Wa	ater		Habitat Description <sup>3</sup>			Acres Delineated within Maintenance Footprint⁴		Impact Tier⁵		
Habitats (Wate U.S. and State			Nonwetland	Water	S			V/E				0.001		П
				41 0						TOTA	L	0.001		
Section II.b. S	summary of	CDFV	w waters of	the S	tate Only	within	the M	aintenar	ice Fac	cility				
CDFW 1600 Jurisdiction Be USACE Waters		١	Y 🛛 N		CDFW R	egulate	ed Act	ivity			Y 🛛	N [	]	
		Ту	vpe of Jurisdicti	onal W	ater		Hat	oitat Descrij	ption. <sup>3</sup>			Delineated enance Fo		Impact Tier⁵
Summary of A Habitats (Wate			Channel Bar					V/E				0.001		1
State Only)			Channel Bar	IK				V/E		ΤΟΤΑ		0.001		II
Section II.c. S	Summary of	Vege	tation Com	nuniti	es and Co	ver Tv	nes V	Vithin an						
					res within								-r-aomty	
Vegetation Cov	Communitie er Types	s and	Mainten			July								
Footprint 100-Foot Buffer Total Dominant/Sign								nt/Signif	icant Spe	cies				
Unvegetated			0.00	1	0.00	)7		0.009						
Subtotal Ripa		etland			0.00			0.009						
Upland												_ ·		
Diegan Coas			0.00		0.55						culatum			
	Subtotal U	pland	0.00	1	0.55		0.560	0.560						

H-15	- Sierra	Linda

Other Land Cover Types							
Urban/Developed	-	0.276	0.276				
Subtotal Other Land Cover Types	-	0.276	0.276				
GRAND TOTAL <sup>6</sup>	0.003	0.843	0.845				
Section II.d. Threatened/Endange	ered/Special S	tatus Species With	nin the Vicinity of	the Maintenance Facility <sup>7</sup>			
Special status species observed du		lone					
field surveys within the Facility Buff	51	ione					
Threatened/Endangered species his		I/A					
known to occur within the Facility B							
Threatened/Endangered species ha Designated Critical Habitat within th Buffer		Coastal California gr	natcatcher ( <i>Poliopt</i>	tila californica califorica) (FT, SSC)			
Threatened/Endangered species hi known to occur within 1.0 mile of th Buffer	e Facility	ricolored blackbird Coastal California gr east Bell's vireo ( <i>V</i> / wainson's hawk ( <i>B</i>	natcatcher (Poliopt ireo bellii pusillus)	ila californica califorica) (FT, SSC) (FE, SE)			
Other non-listed special status spec historically known to occur within th Buffer		None					
Other non-listed special status spec historically known to occur within 1. the Facility Buffer	0 mile of	Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Smooth tarplant ( <i>Centromadia pungens</i> ssp. <i>laevis</i> ) (CRPR 1B.1) Decumbent goldenbush ( <i>Isocoma menziesii</i> var. <i>decumbens</i> ) (CRPR 1B.2) Western spadefoot ( <i>Spea hammondii</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Southern rufous-crowned sparrow ( <i>Aimophila ruficeps canescens</i> ) (WL) Bell's sage sparrow ( <i>Artemisiospiza belli belli</i> ) (WL) Coastal cactus wren ( <i>Campylorhynchus brunneicapillus sandiegensis</i> ) (SSC) San Diego black-tailed jackrabbit ( <i>Lepus californicus bennittii</i> ) (SSC) San Diego woodrat ( <i>Neotoma lepida intermedia</i> ) (SSC)					
Are species surveys recommended	? Y	′ 🛛 N 🗆	If Yes, for what species?	Coastal California gnatcatcher year-round			
Will work occur in the breeding seas	son (Feb-Augu	st)?		Y 🛛 N 🗆			

### PART III. ADDITIONAL NOTES/COMMENTS

Ephemeral channel starts from and outlet structure. Channel bottom is unvegetated while the banks and surrounding habitat is dominated by coastal sage scrub. Approximately 50 feet downstream of the outfall structure the channel forms a large gully as it travels west.

Footnotes:

**1.** Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is

included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

City of Escondido Channel Mo	aintenance RGP – Facility Su PART IV. REPRESENTATIV	mmary	H-15 - Sierra Linda
	PART IV. REPRESENTATIV	E FACILITY PHOTOGRAPHS Representative Photograph 1. Facing W. Channel ir	Diegan Coastal
		Sage Scrub	Diegan Coastai
		Representative Photograph 2. Facing E. Blocked ou	tfall
		Representative Photograph 3. Facing E. Headcut in approximately 50 feet downstream.	channel

### H-16 - Concerto and Beethoven

			PA	RT I. I	MAINT	ENAN	CE F		LITY INFO		TION				
Facility Name	Concerto a	ind Bee	ethoven					Fa	cility ID	H-1	6				
Location	Concerto G	Glen an	nd Beethoven	Drive											
Latitude <sup>1</sup>	33.06402	5	Longitude <sup>1</sup>	-11	7.0574	197		Ma	aintenance	e Freq	uency	(years)	Annual	ly	
Maintenance F	acility Type		Outlet					Lin	ning Type	Earth	en				
		Rem	nove accumula	ated s	edime	nt and \	Need	d rer	noval						
Proposed Main Activities	itenance	outs	ipment will be sediment to ur dragging of eq	nclog	outlet	and cre	ate i	pilot	channel.				ator will be used	to scoop	
Will work occur	r when wate	er is in	the channel?		-	N N			wat	er div		itering or be needed?	YN	1	
					PART	II. SUR	VEY	' INF	ORMATIO	ON					
-			Ryan Layden							D	ate of \$	Survey	2/27/2019	)	
Was water in th survey?	he channel a	at the t	time of the		Y		N [	$\triangleleft$	Hydrolog	ду Тур	be <sup>2</sup>	P 🗌 I	🗆 E 🖾	o 🗆	
Nearest Name	d Waterbod	y Sar	n Dieguito Rive	er					NWI Ind	ex Fr	eshwat	er Forested	Shrub Wetland		
NRCS Soils	ieneba coa	rse sar	ndy loam, 15 t	o 30 p	percen	t slopes	6								
Section II.a. S	ummary of	USAC	CE/RWQCB/C	DFW	Water	's of the	e U.	S. ai	nd State J	Nithir	the M	aintenance	Facility		
Section II.a. Summary of USACE/RWQCB/CDFW           USACE 404/RWQCB 401 Jurisdiction         Y						N D USACE 404 Regulated									
USACE Nonwetland W Present	aters	Y 🗵	3 N 🗆	Wet	ACE tland V sent	Vaters		Y	N	$\boxtimes$	Data Take	point(s) en	Y 🖾 N		
Associated Dat	tasheet(s)		Wetland Sa	mple	Point	1.1									
Summary of Ac	quatic	Туре о	of Jurisdictional V		Habitat Description. <sup>3</sup>							elineated within ance Footprint⁴	Impact Tier⁵		
Habitats (Wate	rs of the	Nonw	vetland Waters	6		V/E						I			
U.S. and State	)				TOTAL						AL 0.003				
Section II.b. S	ummary of	CDFV	N Waters of th	he Sta	ate Or	aly With	nin t	he N	laintenan	ce Fa	cility				
CDFW 1600 Jurisdiction Be USACE Waters		١	YNC	]	CDFV	V Regu			-			Y 🛛	N 🗌		
Summary of A	quatic	Туре с	of Jurisdictional V	Nater			На	abitat	Description	1. <sup>3</sup>			elineated within ance Footprint <sup>4</sup>	Impact Tier⁵	
Habitats (Wate	ers of the	Ripar	ian Extent						V/E				0.005	I	
State Only)											TOTA	L	0.005		
Section II.c. S	Summary of	f Vege	tation Comm	unitie	s and	Cover	Тур	es V	Vithin and	d Adja	icent t	o the Mainte	enance Facility		
		_		Acr	es wit	hin Stu	dy /	Area	6						
	er Types	es and	Maintena Footpri		100-Foot Buffer Total					 Dominant/Significant Species					
Riparian and V			0.000			0 101			0.100	٨	opoio				
Southern Rip			0.009			0.191 <i>0.191</i>			0.199 <i>0.199</i>	A	cacia				
Upland			0.009			0.131			0.199						
Diegan Coas	tal Sage Sc	rub	-			0.422			0.422	A	rtemisi	a californica	, Eriogonum fase	ciculatum	

Subtotal Upland	-	0.422	0.422							
Other Land Cover Types										
Urban/Developed	-	0.532	0.532	N/A						
Subtotal Other Land Cover Types	-	0.532	0.532							
GRAND TOTAL <sup>6</sup>	0.009	1.145	1.154							
Section II.d. Threatened/Endang	ered/Special St	atus Species Witł	nin the Vicinity of	<sup>f</sup> the Maintenance Facility <sup>7</sup>						
Special status species observed du field surveys within the Facility Buff	er No	None								
Threatened/Endangered species hi known to occur within the Facility B	uffer	N/A								
Threatened/Endangered species has Designated Critical Habitat within the Buffer	ne Facility	one								
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer	e Facility Sa Tr Co	San Diego ambrosia ( <i>Ambrosia pumila</i> ) (FE,, CRPR 1B.1) Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST)								
Other non-listed special status spec historically known to occur within th Buffer		ty None								
Other non-listed special status spec historically known to occur within 1. the Facility Buffer	0 mile of So W O So B C So So	Decumbent goldenbush ( <i>Isocoma mensiesii</i> var. <i>decumbens</i> ) (CRPR 1B.2) Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Western spadefoot ( <i>Spea hammondii</i> ) (SSC) Orange-throated whiptail ( <i>Aspodpscelis hyperythra</i> ) (SSC) Southern California rufous-crowned sparrow ( <i>Aimophila ruficeps canescens</i> ) (WL) Bell's sage sparrow ( <i>Artemisiospiza belli belli</i> ) (WL) Coastal cactus wren ( <i>Campylorhynchus brunneicapillus sandiegensis</i> ) (SSC) San Diego desert woodrat ( <i>Neotoma lepida intermedia</i> ) (SSC) San Diego black-tailed jackrabbit ( <i>Lepus californicus bennettii</i> ) (SSC)								
Are species surveys recommended	? Y	⊠ N 🗌	If Yes, for what species?	Coastal California gnatcatcher year-round and San Diego Ambrosia						
Will work occur in the breeding sea	son (Feb-Augus	t)?		Y 🛛 N 🗆						
	PAR	T III. ADDITIONAL	NOTES/COMME	ENTS						
	and runs south. this location and	Directly downstrea	im of outfall there e area did not mee	are <i>Salix lasiolepis</i> and <i>Scirpus californicus,</i> a et the criteria for wetlands. The majority of this						

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Chan	nel Maintena	nce RGP	City/County:Escondido	/San Diego	Sampling Date:2/27/2019				
Applicant/Owner: City of Escondido				State:CA	Sampling Point:H-16 WSP 1.1				
Investigator(s): William Kohn; Ryan I	Layden		Section, Township, Ran	ge:					
Landform (hillslope, terrace, etc.): Drain	lage		Local relief (concave, c	Local relief (concave, convex, none):concave Slope (					
Subregion (LRR): C - Mediterranean C	California	Lat: 33	.064028	Long:-117.057507	Datum:				
Soil Map Unit Name: Cieneba coarse s	andy loam, 1	5 to 30 perce	nt slopes, eroded	NWI classif	fication:N/A				
Are climatic / hydrologic conditions on th	e site typical fo	or this time of ye	ear? Yes 💿 🛛 No 🔿	(If no, explain in	Remarks.)				
Are Vegetation Soil or Hy	/drology	significantly	y disturbed? Are "N	Normal Circumstances	' present? Yes 💿 No 🔿				
Are Vegetation Soil or Hy	/drology	naturally pr	oblematic? (If nee	eded, explain any answ	vers in Remarks.)				
SUMMARY OF FINDINGS - At	tach site m	ap showing	sampling point lo	cations, transect	s, important features, etc.				
Hydrophytic Vegetation Present?	Yes 💽	No 🔘							
Hydric Soil Present?	Yes 🔘	No 💿	Is the Sampled	Area					
Wetland Hydrology Present?	Yes 🔘	No 🜘	within a Wetland	d? Yes 🔿	No 🖲				

### VEGETATION

	Absolute	Dominant		Dominance Test	workshee	t:		
Tree Stratum (Use scientific names.)		Species?		Number of Domina				
1.Salix laseolepis	25	Yes	FACW	That Are OBL, FA	CW, or FA	C: 3	; (	(A)
2				- Total Number of D	ominant			
3				Species Across All	Strata:	5	í (	(B)
4				Percent of Domina	nt Species	s		
Total Cover Sapling/Shrub Stratum	r: 25 %			That Are OBL, FAG			.0 % (	A/B)
1.Baccharis salicifolia	20	Yes	FAC	Prevalence Index	workshe	et:		
2.Malosma laurina	$\frac{20}{10}$	Yes	Not Listed	Total % Cover	of	Multipl	v bv	
3.	10	105		OBL species	5	x 1 =	5	
4.				FACW species	25	x 2 =	50	
				FAC species	20	x 3 =	60	
5	20 %			FACU species	20 5	x 4 =	20	
Total Cover Herb Stratum	: 30 %				5			
1.Scirpus californica	5	Yes	OBL	UPL species	10	x 5 =	50	
2.		103		_ Column Totals:	65	(A)	185	(B)
3.				Prevalence li	ndex = B/	A =	2.85	
4.				Hydrophytic Vege	etation Ind	dicators:		
5.				- 🗙 Dominance Te	est is >50%	6		
6.				× Prevalence Ind	dex is ≤3.0	) <sup>1</sup>		
7.				Morphological	Adaptatio	ns <sup>1</sup> (Provide	supportir	ng
8.	·		·			n a separate		
Total Cover	5 %			- Problematic H	ydrophytic	vegetation	(Explain)	)
Woody Vine Stratum	5%							
1. Toxicodendron diversiloba	5	Yes	FACU	<sup>1</sup> Indicators of hydr be present.	ic soil and	d wetland hy	drology n	nust
2								
Total Cover	: 5 %			Hydrophytic				
% Bare Ground in Herb Stratum 55 % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes 🖲	No 🤇	)	
Remarks: Area is dominated with wetland vegetation	n. Vegeta	ation chan	ges to upla	and vegetation as d	rainage f	lows down	stream.	

### SOIL

Profile Des	scription: (Describe t	to the de	pth needed to document the indicator or co	confirm the absence of indicators.)
Depth	Matrix		Redox Features	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	Loc <sup>2</sup> Texture Remarks
0-12	10-YR 2/1	100	N/A	Loamy/Clay
<sup>1</sup> Type: C=0	Concentration, D=Depl	letion, RN		and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick E Sandy		;)	RRs, unless otherwise noted.)         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 Soils <sup>3</sup> : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type:Ro	<b>Layer (if present):</b> ocky bottom			Hvdric Soil Present? Yes O No 🔍
Remarks: 1			Soils are dry and there are no indication of near outfall then flow downstream.	Hydric Soil Present? Yes No O

## HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Ty-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed	Soils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 🖲	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes No •	Depth (inches):	Wetland Hydrology Present? Yes O No •
(includes capillary fringe) Describe Recorded Data (stream gauge, monitorir	a well parial photos, provious inspac	
Describe Recorded Data (stream gauge, monitorii	ig weil, aerial priotos, previous inspec	lions), il available.
		73.6.1.1.
Remarks:Only drift deposits observed within	the channel. These are also OHW	/M indicators.
US Army Corps of Engineers		

H-17 - Bear Valley Pkwy

			PAR	T I. N	IAIN	TENANCI	F	ACI	ILITY INF	OR	RMAT	ION									
Facility Name	Bear Valle	y Pkwy						Fa	cility ID		H-17										
Location	Bear Valle	y Parkv	vay																		
Latitude <sup>1</sup>	33.07040	2	Longitude <sup>1</sup>	-117	7.060	563		Ma	aintenanc	ж F	requ	ency	(yea	ars)				Anr	nually	/	
Maintenance Fa	acility Type		Outlet					Lir	ning Type	Ea	arthe	n									
		Rem	iove accumulat	ed se	edime	ent and we	eed	l rer	noval												
Proposed Main Activities	tenance	out s	pment will be s sediment to und lragging of equ	clog o	outlet.									or ex	cava	tor v	vill b	e u	sed t	o sco	юр
Will work occur	when wate	er is in t	he channel?		-	N	[		div	ers	s, will sion b				wate	er ,	Y		N		
				F	PART	II. SURV	ΕY	INF	ORMAT	101											
			and Ryan Layden Date of S										Sur∖	/ey			2/2	27/2	2019		
Was water in th survey?	e channel a	at the ti	ime of the		Y	□ N	$\triangleright$	3	Hydrolo	рgy	Туре	2	Ρ		I	$\boxtimes$	Ε	[			]
Nearest Nameo	d Waterbod	y San	Dieguito River						NWI Inc	dex	Free	shwat	ter F	orest	ted/S	Shrul	b We	etla	nd		
NRCS Soils	amona san	dy loar	n, 2 to 5 percei	nt slo	pes																
Section II.a. Su	ummary of	USAC	E/RWQCB/CD	FW	Wate	rs of the	U.S	S. ai	nd State	Wi	thin t	the N	lain	tenar	nce F	acil	ity				
USACE 404/RV	VQCB 401	Jurisdi	ction	Y	$\boxtimes$	N 🗌	l	USA	ACE 404 I	Reg	gulate	ed Ac	tivity	/		Y			Ν	$\boxtimes$	
																	diver gulat				
USACE Nonwe Waters Present		Υ	] N 🗆			Vetland resent	•	Y	N N		ב	Data Tak		nt(s)		Y	$\boxtimes$		Ν		
Associated Data	asheet(s)		Wetland San	nple	Point	1.1 and 1	.2.														
Summary of Aquatic Habitat		of Juriso	dictional Water		Habitat Description. <sup>3</sup>						Acres Delineated within Maintenance Footprint <sup>4</sup>					Impa	ict Tier⁵				
(Waters of the U		etland \	Waters		V/E							0.003					П				
and State)												ΓΟΤΑ	۱L			0.00	)3				
Section II.b. St CDFW 1600	ummary of	CDFV		e Sta	ate Oi	nly Withii	n th	he N	laintenar	nce	Faci	ility									
Jurisdiction Bey USACE Waters		Y	′ 🛛 N 🗌		CDFV	V Regula	ted	Act	ivity				Y			N					
Summary of		of Juriso	dictional Water				Hat	oitat	Description	n³					res De intena					Imp	act Tier⁵
Aquatic Habitat (Waters of the	is Ri	p <mark>arian</mark> l	Extent						V/E							0.0	03				II
State Only)												тот	AL			0.0	03				
Section II.c. S	ummary of	<sup>F</sup> Veget	tation Commu	nitie	s ano	Cover T	ype	es k	Vithin an	nd A	Adjac	ent t	o th	e Ma	inte	nano	ce Fa	acil	ity		
Vegetation C	ommunitie	s and		Acre	es wit	hin Stud	y A	rea	6												
	er Types	o una	Maintenan													_					
Riparian and W	/etland		Footprint	t	100-F	oot Buffe	er		Total				D	omin	ant/	Sign	ifica	ant	Spe	cies	
Emergent We			-			0.068			0.068		An	Anemopsis californica, Distichlis spicata									
Southern Arro Forest	yo Willow I	Riparia	n -			0.711			0.711		Sai	lix las	siole	pis							
Subtotal Ripa	rian and W	etland	0.01			0.81	+		0.82												

Upland									
Non-native grassland	-	0.215	0.215						
Non-Native Woodland	0.013	0.030	0.043						
Subtotal Upland	-	0.21	0.21						
Other Land Cover Types									
Urban/Developed	-	0.677	0.677						
Subtotal Other Land Cover Types	-	0.68	0.68						
GRAND TOTAL <sup>6</sup>	0.013	1.701	1.714						
Section II.d. Threatened/Endang	ered/Specia	Status Species Wit	hin the Vicinity of	the Maintenance Facility <sup>7</sup>					
Special status species observed du field surveys within the Facility Buff	ring 2019 er	None	,						
Threatened/Endangered species hi known to occur within the Facility B	uffer	N/A	N/A						
Threatened/Endangered species has Designated Critical Habitat within the Buffer	ne Facility	None							
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer		San Diego ambrosia ( <i>Ambrosia pumila</i> ) (FE,, CRPR 1B.1) Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST)							
Other non-listed special status spec historically known to occur within the Buffer		None							
Other non-listed special status spe historically known to occur within 1. the Facility Buffer	cies 0 mile of	Decumbent goldenbush ( <i>Isocoma mensiesii</i> var. <i>decumbens</i> ) (CRPR 1B.2) Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Southern California rufous-crowned sparrow ( <i>Aimophila ruficeps canescens</i> ) (WL) Coastal cactus wren ( <i>Campylorhynchus brunneicapillus sandiegensis</i> ) (SSC) San Diego desert woodrat ( <i>Neotoma lepida intermedia</i> ) (SSC) San Diego black-tailed jackrabbit ( <i>Lepus californicus bennettii</i> ) (SSC)							
Are species surveys recommended	?	Y 🛛 N 🗆	If Yes, for what species?	Least Bell's vireo during breeding season and San Diego Ambrosia					
Will work occur in the breeding sea	son (Feb-Au	gust)?		Y N D					
	F	PART III. ADDITIONA	L NOTES/COMME	ENTS					
The maintenance area is an outfall	that drains i	nto an unnamed tribut	ary to Santa Ysab	el Creek. The channel supports wetland habitat					

within the OHWM, wetlands are dominated by *Anemopsis californica*, *Scirpus californicus*, and *Salix lasiolepis*. No defined channel or wetland habitat occurs at the outfall structure; wetland sample point 1.2 was taken directly downstream of the outfall structure to confirm no wetlands occur within that area. Additionally, no shelving or OHWM indicators or swale feature occurs downstream of the outfall.

#### Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance RGP	City/County:Escondido/San Diego	Sampling Date: 2/27/2019
Applicant/Owner: City of Escondido	State:CA	Sampling Point:H-17 WSP 1.1
Investigator(s): William Kohn; Ryan Layden	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Drainage	Local relief (concave, convex, none):con	slope (%):0
Subregion (LRR): <u>C</u> - Mediterranean California Lat: 33	E.070441 Long:-117.0606	551 Datum:
Soil Map Unit Name: Ramona sandy loam, 2 to 5 percent slopes	NWI c	lassification:N/A
	y disturbed? Are "Normal Circumstar roblematic? (If needed, explain any	,
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       No         Wetland Hydrology Present?       Yes       No         Remarks:Sample point taken within willow riparian habitat a		s 🔍 No 🔿

### VEGETATION

Tree Stratum (llos scientific nomes)	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Use scientific names.)		Species?		Number of Dominant Species
1.Salix laseolepis	60	Yes	FACW	That Are OBL, FACW, or FAC: 3 (A)
2				- Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				<ul> <li>Percent of Dominant Species</li> </ul>
Total Cove	r: 60 %			That Are OBL, FACW, or FAC: 100.0 % (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3.				OBL species $40 \times 1 = 40$
4.				FACW species $60 \times 2 = 120$
5				FAC species $x 3 = 0$
Total Cover	: %			FACU species $x 4 = 0$
Herb Stratum	,,,			UPL species $x 5 = 0$
1.Scirpus californica	30	Yes	OBL	Column Totals: 100 (A) 160 (B)
2. Anemopsis californica	10	Yes	OBL	
3.				Prevalence Index = $B/A = 1.60$
4.				Hydrophytic Vegetation Indicators:
5.				X Dominance Test is >50%
6.				× Prevalence Index is ≤3.0 <sup>1</sup>
7.				Morphological Adaptations <sup>1</sup> (Provide supporting
8.				data in Remarks or on a separate sheet)
Total Cover	40 %			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum	40 %			
1.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover	: %			Hydrophytic
% Bare Ground in Herb Stratum $60 \%$ % Cover	r of Biotic C	Crust	%	Vegetation Present? Yes No
Remarks: Area is at the edge of riparian and emerge	ent wetlar	nd habitat	dominated	by wetland vegetation.
· ·				-

### SOIL

Profile Des	cription: (Describe t	to the de	pth needed to docum	ent the	indicator	or confirm	m the absence of indicators.)					
Depth	Matrix		Redox	Feature	es	_Loc <sup>2</sup>						
(inches)	Color (moist)	%	Color (moist)	%	% Type <sup>1</sup>		Texture Remarks					
0-5	10YR 3/1	100	N/A				Loamy/Clay					
5-16	10 YR 4/2	92	7.5 YR 4/5	8	С	M	Loamy/Clay					
<sup>1</sup> Type: C=C	Concentration, D=Depl	letion, RM	/=Reduced Matrix, CS	=Cover	ed or Coat	ed Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.					
Hydric Soil	Indicators: (Applicabl	e to all L	RRs, unless otherwise	noted.)			Indicators for Problematic Hydric Soils:					
Histoso	ol (A1)		Sandy Redox	(S5)			1 cm Muck (A9) ( <b>LRR C</b> )					
Histic E	Epipedon (A2)		Stripped Ma	` '			2 cm Muck (A10) ( <b>LRR B</b> )					
	listic (A3)		Loamy Muck	v Minei	al (F1)		Reduced Vertic (F18)					
	en Sulfide (A4)		Loamy Gley		( )		Red Parent Material (TF2)					
	ed Layers (A5) (LRR C	:)	X Depleted Ma		. ,		Other (Explain in Remarks)					
	luck (A9) (LRR D)	- )	Redox Dark	,	,							
	ed Below Dark Surface	e (A11)	Depleted Da		( )							
	ark Surface (A12)		Redox Depr		· · ·		<sup>3</sup> Indicators of hydrophytic vegetation and					
	Mucky Mineral (S1)		Vernal Pools		(10)		wetland hydrology must be present,					
	Gleyed Matrix (S4)			, (i 0)			unless disturbed or problematic.					
- <u> </u>	Layer (if present):											
Type:	Luyer (in present).											
Depth (ir	nches):						Hydric Soil Present? Yes  No					
Remarks: R	Redox observed at 5	inches.	Area supports hydr	ic soils								
			J.									

# HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (	C3) Try-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (C6)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No	Depth (inches):	
Water Table Present? Yes O No	Depth (inches):	
Saturation Present? Yes O No (includes capillary fringe)	Depth (inches): Wetland	Hydrology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:Sediment and drift deposits located throughout the channel. Area is flat and appears to pond when inundated.		

Project/Site: City of Escondido Channel Maintenance RGP	City/County:Escondido/San Dieg	go	Sampling Date: 2/27/2019			
Applicant/Owner:City of Escondido	State	ə:CA	Sampling Point:H-1	7 WSP 1.2		
Investigator(s): William Kohn; Ryan Layden	Section, Township, Range:					
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, convex, non	e):convex	Slope	(%):2		
Subregion (LRR): <u>C</u> - Mediterranean California Lat: 33.	070401 Long:-117	7.060598	Datum:			
Soil Map Unit Name: Ramona sandy loam, 2 to 5 percent slopes		NWI classific	ation:N/A			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes  No (If no	o, explain in R	emarks.)			
Are Vegetation Soil or Hydrology significantly	disturbed? Are "Normal Circ	cumstances" p	oresent? Yes 💿	No 🔿		
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If needed, expla	ain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations,	transects,	important featu	ires, etc.		
Hydrophytic Vegetation Present? Yes 🕥 No 💿						
Hydric Soil Present? Yes 🕥 No 💿	Is the Sampled Area					
Wetland Hydrology Present? Yes  No	within a Wetland?	Yes 🔿	No 💿			
Remarks:Sample point taken at outlet of the outfall structure.	Located approximately 2 feet h	igher in elev	vation from 1.1.			

#### VEGETATION

Tree Stratum       (Use scientific names.)       % Cover       Species?       Status       Number of Dominant Species         1.	
2 Total Number of Dominant	
3. Species Across All Strata: 3 (B)	
Total Cover: % Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)	`
Sapling/Shrub Stratum       Total Cover:       %       That Are OBL, FACW, or FAC:       0.0 %       (A/B)	)
1.Baccharis sarathoides15YesFACUPrevalence Index worksheet:	
2. Total % Cover of: Multiply by:	
3. OBL species x 1 = 0	
4. FACW species x 2 = 0	
5. FAC species x 3 = 0	
Total Cover: 15 % FACU species 15 x 4 = 60	
<u>Herb Stratum</u> UPL species $80 \times 5 = 400$	
1. Cynodon dactylon 75 Yes Not Listed Column Totals: 95 (A) 460 (B	3)
2. <i>Hirshfeldia incana</i> 5 Yes Not Listed	
3 Prevalence Index = B/A = 4.84	
4. Hydrophytic Vegetation Indicators:	
5. Dominance Test is >50%	
6. Prevalence Index is ≤3.0 <sup>1</sup>	
7. Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
8 Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Total Cover: 80 %	
<u>Woody Vine Stratum</u> <sup>1</sup> Indicators of hydric soil and wetland hydrology must	•
be present	•
2	
Total Cover: % Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 20 % % Cover of Biotic Crust % Present? Yes No •	
Remarks: Area is dominated by upland vegetation.	

Profile Des	cription: (Describe t	o the de	pth needed to docur	ment the indicate	or or confirm	m the absence of	indicators.)	
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%Type	<sup>1</sup> Loc <sup>2</sup>	Texture	Remarks	S
0-8	10YR 2/1	100	N/A			Loamy/Clay	dry soils	
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RN	I=Reduced Matrix, CS	S=Covered or Coa	ated Sand G	trains. <sup>2</sup> Locatio	on: PL=Pore Lining, M=M	latrix.
Hydric Soil	Indicators: (Applicable	e to all L	RRs, unless otherwise	e noted.)		Indicators for	Problematic Hydric Soils	
Histoso	ol (A1)		Sandy Redo	ox (S5)		1 cm Muc	k (A9) ( <b>LRR C</b> )	
	pipedon (A2)		Stripped Ma	( )			ck (A10) ( <b>LRR B</b> )	
	listic (A3)			cky Mineral (F1)			Vertic (F18)	
	en Sulfide (A4)			yed Matrix (F2)			nt Material (TF2)	
	ed Layers (A5) (LRR C	:)	Depleted M			Other (Ex	plain in Remarks)	
	luck (A9) ( <b>LRR D</b> )			k Surface (F6)				
	ed Below Dark Surface	e (A11)		ark Surface (F7)		0		
	Oark Surface (A12)		·	ressions (F8)			hydrophytic vegetation a	nd
	Mucky Mineral (S1)		Vernal Pool	ls (F9)		,	ology must be present,	
Sandy	Gleyed Matrix (S4)					unless distur	bed or problematic.	
Restrictive	Layer (if present):							
Type:Co	obble/Rock							
Depth (ir	nches):8 inches					Hydric Soil Pr	esent? Yes 🔿	No 💿
Remarks: N	No redox observed a	nd soils	drying than those	observed within	the wetlar	nd area.		
	Rocks and cobbles ir							
			-	•				

Wetland Hydrology Indicators:				
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)		
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)		
High Water Table (A2)	Biotic Crust (B12)	X Sediment Deposits (B2) (Riverine)		
Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )		
Water Marks (B1) (Nonriverine)	] Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (C6)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	Nater-Stained Leaves (B9) Other (Explain in Remarks)			
Field Observations:				
Surface Water Present? Yes O No 💿	Depth (inches):			
Water Table Present? Yes O No 💿	Depth (inches):			
Saturation Present? Yes No ( includes capillary fringe)	Depth (inches): Wetland Hy	ydrology Present? Yes 💿 No 🔿		
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if avail	able:		
Remarks:Sediment and drift deposits within this	is area as the area is located downstream of	an outfall structure. No defined channel or		
swale, only sheetflow from outfall int	to the channel at bottom of slope.			
-				

Facility Name	Kit Ca	rson Bike	Trail						Facility	' ID	H-1	18										
Location	Beeth	oven Drive	9																			
Latitude <sup>1</sup>	33.07	74552	Longitud	de <sup>1</sup>	-117.0	6806	63		Mainte	nance	Fre	quency	(yea	ırs)				An	nnual	у		
Maintenance F	acility	Туре	Channe						Lining	Туре	Con	crete										
Proposed Mair Activities	ntenanc	A po ce Equi A bo	nove accu prtion of co ipment/ter obcat will co porary spo	oncrete nporary Irive to	is brok y spoil the do	ten a piles wnsti	nd requ	uire: on t	s repairs rail/distu	s. irbed a	area	S.		ısh a	accu	umula	ated	sec	dimer	nt up	ostrea	am to
Will work occur	r when			-	Y		Ν					vill dew 1 be ne			r wa	ter	Y	$\boxtimes$	] N			
,			PART II. SURVEY INF				_	Date of Survey					2/26/2019									
survey?	ne char	nnei at the	ume or m	e	Y		] N	I	🛛 🛛 Hy	drolog	ју Ту	pe <sup>2</sup>	Р		I		) E	Ξ	$\boxtimes$	0		
Nearest Name	d Wate	rbody Sa	an Dieguite	River					NV	VI Inde	ex R	iverine										
NRCS Soils	Ramona	a sandy loa	am, 2 to 5	percer	nt slope	s																
Section II.a. S							of the		S. and S USACE						nce	Y			N	V div	/ ersio	on
	- 411					Structures are regu																
USACE Nonwe Waters Presen		Y	N N		Waters				Υ	Ν	$\boxtimes$	Tal		nt(s)	)	Y	$\triangleright$	3	Ν			
Associated Dat	tasheet	t(s)	Wetla	nd Sam	nple Po	int 1.	1 and	1.2														
Type of Jurisdictional Water																						
Summary of		Type of Juri	isdictional V	/ater				Hab	oitat Desci	ription <sup>3</sup>						)eline nance				In	npact T	lier⁵
Summary of Aquatic Habita (Waters of the	ts U.S.	Wetland V	Vaters					Hab	V/C	ription <sup>3</sup>	i					nance 0.02	Foot			In		lier⁵
Aquatic Habita	ts U.S.	••	Vaters					Hab		ription <sup>3</sup>		TOT				0.02	Foot 20 99			In		Γier <sup>5</sup>
Aquatic Habita (Waters of the and State)	ts U.S.	Wetland V Nonwetlar	Vaters nd Waters		State	Only	v With		V/C U/C			TOT	AL			nance 0.02	Foot 20 99			In		Fier⁵
Aquatic Habita (Waters of the	uts U.S.	Wetland V Nonwetlar	Vaters nd Waters W Waters				Regula	in tl ated	V/C U/C he Main Activity	tenan	ce Fa		AL Y	Ma		0.02	Foot 20 99			In		ſier⁵
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters	uts U.S.	Wetland V Nonwetlar	Vaters nd Waters W Waters Y 🛛 I	s of the			Regula	in tl ated	V/C U/C he Main Activity	tenan	ce Fa			Ma	rres	0.02 0.09 0.1	Foot 20 99 19	with	t <sup>4</sup>			
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita	ts U.S. Summa yond s	Wetland V Nonwetlar	Vaters nd Waters W Waters Y X I	s of the			Regula	in tl ated	V/C U/C he Main Activity itat Descr V/E	tenan	ce Fa			Ma	res	0.02 0.09 0.1 N Deline nance	Foot 20 99 19 19	with	t <sup>4</sup>		III IV mpact	Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the	ts U.S. Summa yond s	Wetland V Nonwetlar ry of CDF Type of Juri Riparian E Riparian E	Vaters nd Waters W Waters Y 🛛 I isdictional V Extent Extent	s of the			Regula	in tl ated	V/C U/C he Main Activity	tenan	ce Fa			Ma	res	0.02 0.02 0.1 N Deline co.0 0.0	Foot 20 39 19 19 20 20	with	t <sup>4</sup>			Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita	ts U.S. Summa yond s	Wetland V Nonwetlar ry of CDF Type of Juri Riparian E	Vaters nd Waters W Waters Y 🛛 I isdictional V Extent Extent	s of the			Regula	in tl ated	V/C U/C he Main Activity itat Descr V/E	tenan	ce Fa	acility	Y	Ma	res	0.02 0.09 0.11 N Deline nance <0.0 0.0	Foot 20 99 19 20 20 20 20 69	with	t <sup>4</sup>		III IV mpact	Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only)	ts U.S. umma yond s	Wetland V Nonwetlar ry of CDF Type of Juri Riparian E Riparian E Channel E	Vaters nd Waters W Waters Y N I isdictional V Extent Extent Bank	s of the		DFW	Regula	in tl ated Hab	V/C U/C he Main Activity itat Descr V/E V/C	tenan	ce F	acility	AL	Ma C Ac	inter Cres   ainte	0.02 0.09 0.11 N Deline nance <0.0 0.0 0.1	Foot 20 39 19 19 20 20 69 89	with	nin nt <sup>4</sup>		III IV mpact	Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the	ts U.S. Summa yond s tts	Wetland V Nonwetlar ry of CDF Type of Juri Riparian E Riparian E Channel E ry of Vega nities and	Vaters nd Waters W Waters Y X I isdictional V Extent Extent Bank etation C	s of the N  Vater	nities a	of W	Regula	in that ated Hab	V/C U/C he Main Activity itat Descr V/E V/C es With y Area <sup>6</sup>	tenan iption <sup>3</sup>	ce F	acility	AL to th	Ma , [] Ac Mi	inter Cres   ainte	0.02 0.09 0.11 N Deline nancc <0.0 0.0 0.1 0.1 0.1	Foot 20 39 19 19 20 20 20 20 20 69 89 89 62 69	with tprin	nin nt <sup>4</sup>		  V mpact	Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Riparian and V	ts U.S. Summa syond s ats Summa ommu Type	Wetland V Nonwetlar ry of CDF Type of Juri Riparian E Channel E ry of Vegu nities and es	Vaters Ind Waters W Waters W Waters Y X I isdictional V Extent Extent Bank etation C I Cover	s of the N  Vater	nities a Acre	of W	Regula Cover 1 ithin S 100-Fo Buffe	in that hated Hab	V/C U/C he Main Activity itat Descr V/E V/C es With y Area <sup>6</sup>	tenan iption <sup>3</sup>	ce F	acility TOT, iacent	AL to th	Ma Ac Mi e Mi	cres ainteres aint	0.02 0.09 0.1 <sup>4</sup> N Deline nance <0.0 0.0 0.1 0.1 0.1 0.1	Foot 20 39 19 19 20 20 20 20 20 69 89 89 62 69	with tprin	nin nt <sup>4</sup>		  V mpact	Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C	ts U.S. Summa syond s ats Summa ommu Type	Wetland V Nonwetlar ry of CDF Type of Juri Riparian E Channel E ry of Vegu nities and es	Vaters Ind Waters W Waters W Waters Y X I isdictional V Extent Extent Bank etation C I Cover	s of the N  Vater	nities a Acre	of W	Regula Cover 1 ithin S 100-Fo	in that hated Hab	V/C U/C he Main Activity itat Descr V/E V/C es With y Area <sup>6</sup>	tenan	ce F	acility	AL to th	Ma Ac Mi e Mi	cres ainteres aint	0.02 0.09 0.1 <sup>4</sup> N Deline nance <0.0 0.0 0.1 0.1 0.1 0.1	Foot 20 39 19 19 20 20 20 20 20 69 89 89 62 69	with tprin	nin nt <sup>4</sup>		  V mpact	Tier <sup>5</sup>
Aquatic Habita (Waters of the and State) Section II.b. S CDFW 1600 Jurisdiction Be USACE Waters Summary of Aquatic Habita (Waters of the State Only) Section II.c. S Vegetation C Riparian and V	ts U.S. yond s ats ommu Type <u>Vetlanc</u> alley Fre	Wetland V Nonwetlan ry of CDF Type of Juri Riparian E Riparian E Channel E ry of Vegu nities and es d eshwater M w Ripariar	Vaters nd Waters W Waters Y X I isdictional V Extent Extent Bank etation C I Cover Marsh	S of the N Vater Ommun Mainte Fool	nities a Acre	of W	Regula Cover 1 ithin S 100-Fo Buffe	in that hated Hab	V/C U/C he Main Activity itat Descr V/E V/C V/C es With y Area <sup>6</sup>	tenan iption <sup>3</sup>	ce Fa	acility TOT, iacent	AL Control of the second secon	Ma Ac Mi e Mi omin inge	cres ainteres aint	0.02 0.09 0.1 <sup>4</sup> N Deline nance <0.0 0.0 0.1 0.1 0.1 0.1	Foot 20 39 19 19 20 20 20 20 20 69 89 89 62 69	with tprin	nin nt <sup>4</sup>		  V mpact	Tier <sup>5</sup>

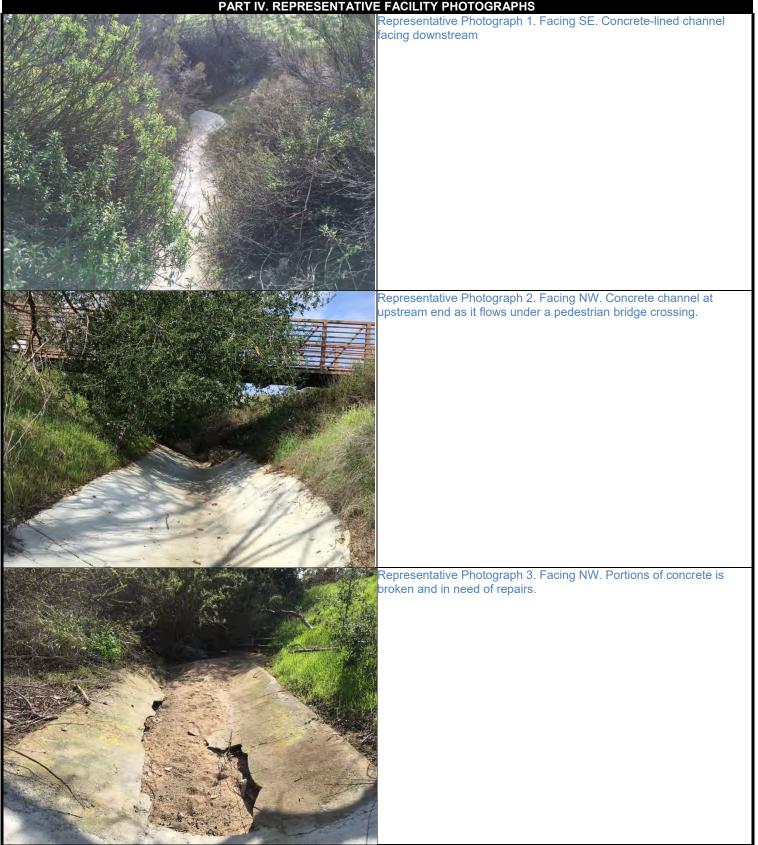
Mulefat Scrub	enance	_	0.066	0.066	H-18 - Kit Carson Bike Tra Baccharis salicifolia				
Subtotal Riparian and Wetland	0	-							
	0.0	020	1.230	1.250					
Upland Diegan Coastal Sage Scrub		-	2.011	2.011	Eriogonum fasciculatum				
Eucalyptus Woodland		-	0.315	0.315	Eucalyptus sp.				
Non-native Grassland		-	1.199	1.199					
Subtotal Upland			3.524	3.524					
Other Land Cover Types		-	3.024	5.524					
Urban/Developed	0.1	185	1.402	1.588					
Disturbed Habitat	0.	-	0.505	0.505					
Subtotal Other Land Cover Types	0	185	1.907	2.093					
GRAND TOTAL <sup>6</sup>	_	206	6.662	6.868					
Section II.d. Threatened/Endangered	/Special	Status S	Species Wit	hin the Vicinitv	of the Maintenance Facility <sup>7</sup>				
Special status species observed during field surveys within the Facility Buffer	2019	None							
Threatened/Endangered species histori known to occur within the Facility Buffer		N/A							
Threatened/Endangered species having Designated Critical Habitat within the Fa Buffer	acility	Coastal	California gr	natcatcher ( <i>Poli</i>	optila californica califorica) (FT, SSC)				
Threatened/Endangered species histor known to occur within 1.0 mile of the Fa Buffer		San Diego ambrosia (Ambrosia pumila (FE,, CRPR 1B.1) Tricolored blackbird ( <i>Agelaius tricolor</i> ) (, CE) Coastal California gnatcatcher ( <i>Polioptila californica califorica</i> ) (FT, SSC) Least Bell's vireo ( <i>Vireo bellii pusillus</i> ) (FE, SE) Swainson's hawk ( <i>Buteo swainsoni</i> ) (, ST)							
Other non-listed special status species historically known to occur within the Fa Buffer	icility	None							
Other non-listed special status species historically known to occur within 1.0 mi the Facility Buffer	Wart-stemmed ceanothus (Ceanothus cerrucosus) (CRPR 2B.2 Southern tarplant ( <i>Centromadia parryi</i> ssp. <i>australis</i> ) (CRPR 1B.1) Decumbent goldenbush ( <i>Isocoma menziesii</i> var. <i>decumbens</i> ) (CRPR 1B.2) Western spadefoot ( <i>Spea hammondii</i> ) (SSC) Coastal cactus wren ( <i>Campylorhynchus brunneicapillus sandiegensis</i> ) (SSC)								
Are species surveys recommended?		Y 🛛	N 🗌	If Yes, for what species?	t Least Bell's vireo during breeding season, Coasta California gnatcatcher year-round and San Diego Ambrosia				
Will work occur in the breeding season	(Feb-Au	rust)?		•	Y 🛛 N 🗆				

#### PART III. ADDITIONAL NOTES/COMMENTS

Channel is concrete-lined channel that flows along the bike trail and into a riparian area. As the concrete-lined channel enters the riparian habitat, small sections of the concrete has been undermined in both the channel bottom and a section of the western concrete bank has collapsed. Buffer area is within a large floodplain area that support small depressions, but is mostly dominated by higher floodplain habitat. Downstream portion of concrete channel is full of sediment, approximately 1-2 feet in depth.

#### Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).





#### H-18 - Kit Carson Bike Trail

Project/Site: City of Escondido C	hannel Maintenai	nce RGP	_ City/County: Escondido/San Diego			Sampling Date:2/18/2019			
Applicant/Owner: City of Escondic	lo			S	itate:CA	Sampling F	oint:H-18	3 WSP 1.1	
Investigator(s): Lanika Cervantes;	William Kohn		Section, Township, Range:						
Landform (hillslope, terrace, etc.): d	epression	Local relief (c	oncave, convex,	none):none		Slope (%):0			
Subregion (LRR): C - Mediterranea	an California	Lat: 33	.073834	Long:-	117.065588		Datum:		
Soil Map Unit Name: Chino silt loa	am, saline, 0 to 2	percent slope	es		NWI classif	ication:Fresh	water Fo	rested/Shru	
Are climatic / hydrologic conditions of	on the site typical fo	r this time of y	ear?Yes 🖲	No 🔿 🛛 (I	f no, explain in	Remarks.)			
Are Vegetation Soil	or Hydrology	significantly	y disturbed?	Are "Normal	Circumstances"	present? Ye	es 💿	No 🔿	
Are Vegetation Soil	or Hydrology	naturally pr	roblematic?	(If needed, ex	kplain any answ	ers in Remark	ks.)		
SUMMARY OF FINDINGS -	Attach site ma	ap showing	g sampling <sub>l</sub>	point location	ns, transects	s, importai	nt featu	res, etc.	
Hydrophytic Vegetation Present?	Yes 💿	No 🔘							
Hydric Soil Present?	Yes 💽	No 🔘	Is the	Sampled Area					
Wetland Hydrology Present?	Yes 💽	No 🔘	within	a Wetland?	Yes 🖲	No C			
Remarks:Sample point taken ne	ear edge of depres	sion							

#### VEGETATION

	Absolute	Dominant		Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar				
1.Salix laseolepis	20		FACW	That Are OBL, FAC	W, or FA	C: 3	(	(A)
2.salix gooddingii	20	Yes	FACW	- Total Number of Do	minant			
3				Species Across All S	Strata:	3	(	(B)
4				Percent of Dominan	t Species			
Sapling/Shrub Stratum Total Cove	r: 40 %			That Are OBL, FAC			0 % (	A/B)
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Multiply	by:	
3.				OBL species	60	x 1 =	60	
4.				FACW species	40	x 2 =	80	
5.	·	·		FAC species		x 3 =	0	
Total Cover	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
1.Scirpus californica	60	Yes	OBL	Column Totals:	100	(A)	140	(B)
2.					100	(,,)	110	(-)
3.		·		Prevalence Inc	dex = B/	A =	1.40	
4.				Hydrophytic Veget	ation Inc	dicators:		
5.				X Dominance Tes	st is >50%	6		
6.				× Prevalence Inde	ex is ≤3.0	) <sup>1</sup>		
7				Morphological A		ns <sup>1</sup> (Provide s n a separate s		ng
8				- Problematic Hy		•	,	)
Total Cover Woody Vine Stratum	60 %					, egetation ,		,
1				<sup>1</sup> Indicators of hydric	soil and	d wetland hyd	rology n	nust
2.				be present.				
Total Cover	%			Hydrophytic Vegetation				
	of Biotic C	Crust	%		Yes 🖲	No 🔿		
Remarks:								

Profile Des	cription: (Describe	to the depth	needed to docur	nent the ir	ndicator	or confirm	m the absence of	indicators.)		
Depth	Matrix		Redox	Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks
0-6	10-YR 3/2	100					Loamy/Clay	moist soils		
6-12	10YR 4/3	100					Sand			
<sup>1</sup> Type: C=C	Concentration, D=Depl	letion. RM=R	educed Matrix. CS		or Coate	 d Sand G	rains. <sup>2</sup> Locatio	n: PL=Pore I	inina. M	=Matrix.
	Indicators: (Applicabl						Indicators for		0.	2
Histoso			Sandy Redo					k (A9) ( <b>LRR</b>	•	
	Epipedon (A2)		Stripped Ma	trix (S6)				k (A10) ( <b>LRF</b>	,	
Black H	listic (A3)		Loamy Muc	ky Mineral	(F1)		Reduced	Vertic (F18)		
🗙 Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Pare	nt Material (T	F2)	
Stratifie	ed Layers (A5) ( <b>LRR C</b>	)	Depleted M	atrix (F3)			Other (Ex	plain in Rema	arks)	
🦳 1 cm M	luck (A9) ( <b>LRR D</b> )		Redox Dark	Surface (F	F6)					
Deplete	ed Below Dark Surface	e (A11)	Depleted Da	ark Surface	e (F7)					
Thick D	Oark Surface (A12)		Redox Depi	essions (F	8)		<sup>3</sup> Indicators of	hydrophytic v	egetatior	n and
Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)			wetland hydr	ology must b	presen	t,
Sandy	Gleyed Matrix (S4)						unless distur	bed or proble	matic.	
Restrictive	Layer (if present):									
Type:										
Depth (ir	nches):						Hydric Soil Pr	esent? Ye	s 💿	No 🔿
Remarks: N	lo redox observed h	nowever hy	drogen sulfide o	dor.						

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)	)	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
X Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	X Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roo	ots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soils (	C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No (	Depth (inches):	
Water Table Present? Yes  No (	Depth (inches): at surface	
Saturation Present? Yes  No ( includes capillary fringe)	Depth (inches): at surface Wetl	land Hydrology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous inspections),	if available:
Remarks:several hydrology indicators. a berr	m separates this depression from concre	ete-lined channel.
	<b>x x</b>	

Project/Site: City of Escondido Channel Maintenance H	RGP	City/Count	ty:Escondic	lo/San Diego	Sam	pling Date:	2/18/201	9
Applicant/Owner: City of Escondido				State:CA	 Sam	pling Point:	H-18 WS	SP 1.2
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	ange:	_			
Landform (hillslope, terrace, etc.): outerfloodplain		Local relie	ef (concave,	convex, none):convex		Slo	ope (%):1	
Subregion (LRR) C - Mediterranean California	Lat: 33.	.073856	•	Long:-117.065650		Dat	um:	
Soil Map Unit Name: Chino silt loam, saline, 0 to 2 perce	ent slope	s		NWI classi	ification	:Freshwate	er Foreste	ed/Shri
Are climatic / hydrologic conditions on the site typical for this	-		No (					
		/ disturbed?		"Normal Circumstances	" prese	nt? Yes (	No	$\bigcirc$
		oblematic?		eeded, explain any ansv				
SUMMARY OF FINDINGS - Attach site map s							eatures,	etc.
Hydrophytic Vegetation Present? Yes   Ves								
		ls t	the Sample	d Area				
			hin a Wetla			No 💿		
Remarks:Sample point taken within the outerfloodpla	ain that s						4 feet hi	gher
VEGETATION								
	Abaaluta	Dominont	t Indicator	Dominance Test wo	rkahaa	4.		
	Absolute <u>% Cover</u>			Number of Dominant				
1.Salix gooddingii	50	Yes	FACW	That Are OBL, FACW			2	(A)
2.unknown tree (ornamental)	15	Yes	Not Listed	_ - Total Number of Dom	ninant			
3				Species Across All S			3	(B)
4				Percent of Dominant	Species	S		
Sapling/Shrub Stratum	: 65 %			That Are OBL, FACW	V, or FA	C: 60	5.7 %	(A/B)
1.				Prevalence Index w	orkshe	et:		
2.				Total % Cover of	f:	Multip	bly by:	-
3.				OBL species		x 1 =	0	
4				FACW species	50	x 2 =	100	
5				FAC species	10	x 3 =	30	
Total Cover:	%			FACU species		x 4 =	0	
Herb Stratum 1.Conium maculatum	10	Yes	FAC	UPL species	15	x 5 =	75	(=)
2.	10	100		Column Totals:	75	(A)	205	(B)
3.				Prevalence Ind	ex = B/	A =	2.73	
4.				Hydrophytic Vegeta	tion Ind	dicators:		
5.				X Dominance Test	is >50%	6		
6.				Prevalence Inde				
7				Morphological A data in Rema				ng
8				- Problematic Hyd				)
Total Cover:	10 %				1 7 1	0	7 F 1997	,

Total Cover: %

% Cover of Biotic Crust

90 %

Woody	Vine	Stratum
-		

1				
	_			

2.\_\_\_\_\_

% Bare Ground in Herb Stratum

Remarks:

No 🔿

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present.

Yes 🖲

Hydrophytic Vegetation Present?

%

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator o	or confirm	m the absence of indica	tors.)
Depth	Matrix			Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10-YR 3/1	100					Loamy/Clay	
6-12	10YR 4/4	100					Sand	
<sup>1</sup> Type: C=C	Concentration, D=Dep	letion, RM=	Reduced Matrix, CS	=Covered	d or Coate	d Sand G	ains. <sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicabl	e to all LRF	Rs, unless otherwise	noted.)			Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Sandy Redox	(S5)			1 cm Muck (A9)	(LRR C)
Histic E	pipedon (A2)		Stripped Ma	trix (S6)			2 cm Muck (A10	) (LRR B)
Black H	listic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced Vertic	(F18)
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Mate	erial (TF2)
Stratifie	ed Layers (A5) (LRR C	;)	Depleted Ma	atrix (F3)			Other (Explain ir	n Remarks)
🦳 1 cm M	luck (A9) ( <b>LRR D</b> )		Redox Dark	Surface (	(F6)			
Deplete	ed Below Dark Surface	e (A11)	Depleted Da	ark Surfac	e (F7)			
Thick D	ark Surface (A12)		Redox Depr	essions (I	F8)		<sup>3</sup> Indicators of hydrop	hytic vegetation and
Sandy I	Mucky Mineral (S1)		Vernal Pool	s (F9)			wetland hydrology r	nust be present.
	Gleyed Matrix (S4)			( )			unless disturbed or	
	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes 🔿 No 🖲
Remarks: N	No redox observed.							

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed So	ils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes 🔿 No 💿	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): V	Netland Hydrology Present? Yes 🔿 No 💿
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspectio	ns), if available:
Remarks:No hydrology indicators observed w	ithin this area. approximately 4 fee	t higher in elevation from wetland area.

H-19 Encino and Amparo

				PAR	t I. Ma	INTE	NANCE	E FA	CILITY	INFC	ORMAT	ION						
Facility Name	Encino a	nd Amp	oaro					F	acility I	D	H-19							
Location	Encino D	rive an	d Amparo	Drive														
Latitude <sup>1</sup>	33.0989	16	Longitud	de <sup>1</sup>	-117.0	060170	)	N	laintena	ance	Freque	ency (y	ears	5)		Ar	nnually	/
Maintenance F	acility Typ	e	Outlet a	nd Inle	t			L	inina Tv	/pe	Earther	<u>ייי</u>						·
	5 51		nove accu	mulate	d sedir	nent a	nd wee											
Proposed Main Activities	tenance	sedi No c	ipment wil ment to u dragging c ative tree	nclog c of equip	outlet. oment a	along b	oanks a	and n	o equip	men	t in cha	nnel.				ill be u	sed to	scoop out
Will work occur	<sup>-</sup> when wa	ter is ir	n the chan	nel?	Y		Ν			dive	e <b>s</b> , will o ersion be			or wa	iter ,	Y 🗵	N	
					PA	RT II.	SURV	EY IN	FORM	ATIC	ON					_		
Surveyors	William K	ohn an	d Ryan La	ayden							Date	e of Su	urvey	/		2/27	/2019	
Was water in th survey?	ne channe	l at the	time of th	e	Y		Ν	$\boxtimes$	Hydr	olog	ıy Type <sup>2</sup>	<sup>2</sup> F	<b>&gt;</b> [	<u> </u>	$\boxtimes$	E		D 🗌
Nearest Name	arest Named Waterbody San Dieguito River NWI Index Riverine							rine										
NRCS Soils	amona sa	andy loa	am, 2 to 5	perce	nt slope	es												
Section II.a. S	ummary	of USA	CE/RWQ	CB/CL	FW W	aters	of the	U.S. (	and Sta	ate V	Vithin t	he Ma	inte	nance	Facil	lity		
USACE 404/R	NQCB 40	1 Juriso	diction		Υ [	X N		US	SACE 4	04 R	egulate	d Activ	/ity		Υ	$\boxtimes$	Ν	
USACE Nonwe Waters Presen		Y	□ N			E Wets S Pres		Y	$\boxtimes$	N		Datap Taker		(s)	Y	$\boxtimes$	Ν	
Associated Dat	asheet(s)																	
Summary of		of Juris	dictional Wa	ater		Habitat Description <sup>3</sup>				Acres Delineated within Maintenance Footprint <sup>4</sup>			Impact Tier⁵					
Aquatic Habitat (Waters of the U.S. and State	Wet	land W	aters			V/E TOTAL						0.054						
Section II.b. S	ummarv		W Water	s of th	o Stato	Only	Withi	n tha	Mainto	nan	co Eaci	litv						
CDFW 1600 Jurisdiction Ber USACE Waters	yond			N 🗌			Regulat			merri	cer ach	iity	Y		Ν			
Summary of		of Juris	dictional W	ater				Habit	at Descri	ption	3					ated wit Footpri		Impact Tier⁵
Aquatic Habita (Waters of the	Ripa	arian Ex	xtent						V/E						0.05	54		I
State Only)											Т	OTAL			0.05	54		
Section II.c. S	ummary	of Veg	etation C	ommu	nities a	and Co	over T	ypes	Within	and	l Adjace	ent to	the	Maint	enan	ce Fac	ility	
					Acres	within	n Study	y Are	a <sup>6</sup>									
Vegetation C Cove	ommunit er Types	ies and	Main	itenan	се			_					Deer				4.0	
Riparian and V	Vetland		FO	otprin	L  10	U-F00	t Buffe	;r	Tota	ai			Don	ninan	น <sub>์</sub> อเgr	nifican	i spe	cies
Southern willo			0	).055		-			0.05	5	Sali	ix lasio	lepi	s, Cor	taderi	a sello	ana	
Subtotal Ripa	rian and V	Vetland	d (	).055		-			0.05	55								
Upland											-							
Coast live oal				-		0.0			80.0		Que	ercus a	agrifo	olia				
Other Land Ca	Subtotal			-		0.0	82		0.08	32								
Other Land Co Urban/develo		5		-		1.0	06		1.00	)6								
			1					1										

ity of Escondido Channel Ma Disturbed Habitat	_	0.104	0.104	Encino and A
Cubtotal Other Land Cover Types	-	1.110	1.110	
GRAND TOTAL <sup>6</sup>	0.055	1.192	1.246	
Section II.d. Threatened/Endang Special status species observed du		Status Species Wit	thin the Vicinity of	the Maintenance Facility
ield surveys within the Facility Buff		None		
hreatened/Endangered species h	istorically	N1/A		
nown to occur within the Facility B	Junci	N/A		
Threatened/Endangered species h Designated Critical Habitat within tl Buffer		None		
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer	ne Facility	Least Bell's vireo (V Swainson's hawk (E Western yellow-bille	natcatcher (Poliop /ireo bellii pusillus) Buteo swainsoni) ( ed cuckoo (Coccyzi	ila californica califorica) (FT, SSC) (FE, SE)
Other non-listed special status spe historically known to occur within th Buffer		None		
Other non-listed special status spe historically known to occur within 1 the Facility Buffer	.0 mile of	Southern California Orange-throated wh Coast horned lizard Burrowing owl ( <i>Athe</i> Coastal cactus wren White-faced ibis ( <i>PI</i> Pallid bat ( <i>Antrozou</i> Dulzura pocket mou Townsend's big-ear Western yellow bat	legless lizard (Ann hiptail (Aspodpsceli (Phrynosoma blair ene cunicularia) (SS n (Campylorhynchu agadis chihi) (WL) is pallidus) (SSC) ise (Chaetodipus c ed bat (Corynorhin (Lasiurus xanthinu I bat (Nyctinomops Nyctinomops macro faxidea taxus) (SSC	SC) as brunneicapillus sandiegensis) (SSC) alifornicus femoralis) (SSC) us townsendii) (SSC) s) (SSC) femorosaccus) (SSC) otis) (SSC)
Are species surveys recommended		Y 🛛 N 🗌	If Yes, for what species?	Least Bell's vireo during breeding season
Will work occur in the breeding sea	aan (Eah Aug			

Area is within a locked gate, therefore assessment completed around the maintenance area where access was available. Wetland basin occurs at outlet structure, the area is dominated by Salix laseolepis and some Cortaderia selloana at the basin bottom.

Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

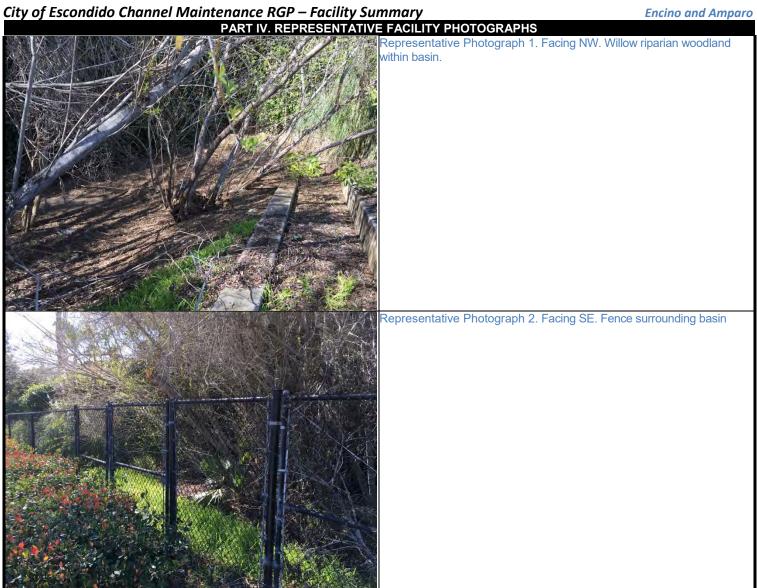
3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



H-20 - Sunset and Bear Valley

				PART	. MAINT	ENANC	E F	ACILI	TY INFO	DRM/	ATION						
Facility Name	Sunset	and Bea	ar Valley					Facil	ity ID	H-2	20						
Location	Sunset	Drive ar	nd Bear Valle	y Park	way					-							
Latitude <sup>1</sup>	33.094	4609	Longitude <sup>1</sup>	-1	117.0591	67		Main	tenance	Frec	luency	(year:	s)		A	nnually	/
Maintenance F	acility T	уре	Channel					Linin	д Туре	Earth	nen						
		Re	emove accum	nulated	l sedime	nt and w	eed	d remo	val	•							
Proposed Main Activities	itenance	un	uipment will clog outlet. dragging of										used to	) scoo	p out	sedim	ent to
Will work occur	r when v	vater is i	n the channe	?	YD	_			dive	ersion	ill dewa be nee			iter 、	Y D	⊠ N	
					PART	II. SURV	/EY	INFO	RMATIO								
-			nd Ryan Layo	len						D	ate of \$	Surve	ey (		2/27	/2019	
Was water in th survey?	he chani	nel at the	e time of the		Y	🗌 N	$\triangleright$	א   ו	lydrolog	ју Тур	be <sup>2</sup>	Ρ			Е	$\boxtimes$ (	
Nearest Name	d Waterl	body S	an Dieguito F	River				1	WI Inde	ex No	ot class	ified					
NRCS Soils	Ramona	sandy lo	am, 5 to 9 pe	ercent	slopes												
Section II.a. S	ummar	y of USA	ACE/RWQCE	B/CDF	W Water	s of the	U.S	S. and	State	Vithiı	n the M	lainte	enance	Facil	ity		
USACE 404/RWQCB 401 Jurisdiction Y						N 🗌			E 404 F					Y Only	□ / Tem		⊠ diversion egulated
USACE Nonwe Waters Presen		Y	N [		SACE W /aters Pr			Υ	Ν	$\boxtimes$	Data Tak	apoint en	t(s)	Y		Ν	$\boxtimes$
Associated Dat	tasheet(	s)															
Summary of		ype of Ju	risdictional Wate	ər	Habitat Description. <sup>3</sup>					Acres E Mainter				Impact Tier⁵			
Aquatic Habita (Waters of the		lonwetla	nd Waters					U/E						0.001			II
and State)											TOTA	Ĺ		0.00	1		
Section II.b. S	ummar	y of CDI	-W Waters o	of the S	State On	ly Withi	n tl	he Ma	intenan	ce Fa	cility						
CDFW 1600 Jurisdiction Be USACE Waters	yond s		Y 🛛 N		CDFW	/ Regula			-			Y		N			
Summary of		ype of Ju	risdictional Wat	er		I	labi	itat Des	cription <sup>3</sup>					Delinea nance			Impact Tier⁵
Aquatic Habita (Waters of the	ts C	Channel	Bank					U/E						0.00	1		II
State Only)											ΤΟΤΑ	L		0.00	1		
Section II.c. S	ummar	y of Veg	etation Com	muni	ties and	Cover 1	ур	es Wi	hin and	l Adja	acent t	o the	Maint	enand	e Fac	ility	
Vegetation C	ommur	nities an	d	Ac	cres with	nin Stud	y A	Area <sup>6</sup>									
Cove	er Types	S	Mainter Footp		100-Foot Buffer Total				Doi	minan	t/Sign	ifican	t Spe	cies			
Riparian and W Unvegetated C			0.0	01	0	.016		(	).017								
Subtotal Ripa		d Wetlan				0.02			0.02								
Upland																	
Coast Live O			-		-	.428			).428	G	luercus	agrif	folia				
	Subtot	tal Uplan	d -		C	).428			0.428								

Are species surveys recommended?     Y     N     species?     Diego Ambrosia       Will work occur in the breeding season (Feb-August)?     Y     N     I	Other Land Cover Types				
GRAND TOTAL <sup>6</sup> 0.001     1.456     1.458       Section II.d. Threatened/Endangered/Special Status Species Within the Vicinity of the Maintenance Facility     Special status species observed during 2019     None       Threatened/Endangered species historically known to occur within the Facility Buffer     N/A     None       Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer     None     None       Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer     Tricolored blackbird (Agelaius tricolor) (-, CE)       Coastal California gnatcatcher (Poloptile californica califorica) (FT, SSC)       Least Bell's vireo (Vireo bellin busilus) (FE, SE)       Swainson's hawk (Buteo swainson) (-, ST)       Westem yellow-billed cuckoo (Coccyzus americanus occidentalis) (FT, SE)       California black rail (Laterallus jamaicensis coturniculus) (-, ST/FP)       Other non-listed special status species inistorically known to occur within the Facility Buffer       Other non-listed special status species inistorically known to occur within 1.0 mile of the Facility Buffer       Other non-listed special status species inistorically (-, ST/FP)       Other non-listed special status species (-, ST)	Urban/Developed	-	1.01	1.01	
Section II.d. Threetened/Endargered/Special Status Species Within the Vicinity of the Maintenance Facility         Special status species observed during 2019         Fineatened/Endargered species historically         Known to occur within the Facility Buffer         Threatened/Endargered species historically         Roome         Threatened/Endargered species historically         Roome         Threatened/Endargered species historically         Roome         Threatened/Endargered species historically         Buffer         Threatened/Endargered species historically         Buffer         Threatened/Endargered species historically         Buffer         Other non-listed special status species         Instorically known to occur within 1.0 mile of the Facility         Buffer         Other non-listed special status species         historically known to occur within 1.0 mile of the Facility Buffer         Other non-listed special status species         historically known to occur within 1.0 mile of the Facility Buffer         None         Southern tarplant (Centromadia parryl ssp. australis) (CRPR 1B.1)         Southern California legless lizard (Anniella stebbins) (SSC)         Orange-throated thipselial (Aspodpscelia strue surfaction) (SSC)         Orange-throated thipselia (Aspodpscelia strue)	Subtotal Other Land Cover Types	-	1.01	1.01	
Special status species observed during 2019       None         Fined surveys within the Facility Buffer       None         Threatened/Endangered species historically       N/A         Threatened/Endangered species historically       None         Buffer       Tricolored blackbird (Agelaius tricolor) (, CE)         Threatened/Endangered species historically       None         Rinead/Endangered species historically       Tricolored blackbird (Agelaius tricolor) (, CE)         Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC)       Least Bell's vireo (Vireo belli pusillus) (FE, SE)         Swainson's hawk (Buteo swainson) (, ST)       Western yellow-billed cuckoo (Coccyzus americanus occidentalis) (FT, SE)         California black rail (Laterallus jamaicensis coturniculus) (, ST/FP)       None         Other non-listed special status species       Southern tarplant (Centromadia pary/ ssp. australis) (CRPR 1B.1)         Southern tarplant (Southern california legless lizard (Anniella stebbins)) (SSC)       Orage-throated whiptail (Aspodpscelis hyperythan) (SSC)         Other non-listed special status species       Southern tarplant (Centromadia pary/ ssp. australis) (CRPR 1B.1)         Southern tarplant (Centromadia pary/ ssp. australis) (SSC)       Orage-throated whiptail (Aspodpscelis hyperythan) (SSC)         Other non-listed special status species       Southern tarplant (Centromadia pary/ isp. australis) (CRPR 1B.1)         Southern	GRAND TOTAL <sup>6</sup>	0.001	1.456	1.458	
field surveys within the Facility Buffer       None         Threatened/Endangered species historically known to occur within the Facility Buffer       N/A         Buffer       None         Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer       None         Buffer       Tricolored blackbird (Agelaius tricolor) (-, CE) Coastal California gnatcatcher (Poliopitil californica califorica) (FT, SSC) Least Bell's vireo (Vireo belli' publicus) (FE, SE) Swainson's hawk (Buteo swainson) (-, ST)         Western yellow-billed cuckoo (Coccyzus americanus occidentalis) (FT, SE) California black rail (Laterallus jamaicensis coturniculus) (-, ST/FP)         Other non-listed special status species historically known to occur within the Facility Buffer       None         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Phrynosoma blainvillin) (SSC)         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1)         Other non-listed special status species       Southern tarplant (Kapodpscelis hyperythra) (SSC)         Coastal california legless lizard (Phrynosoma blainvillin) (SSC)       Burrowing owl (Athene cunicularia) (SSC)         Coastal california black rail (Plagadis chih) (WL)       Pallid bat (Antrozous pallidus) (SSC)         Dulzura pocket mouse (Chaa	Section II.d. Threatened/Endang	ered/Special S	tatus Species Wit	hin the Vicinity of	f the Maintenance Facility <sup>7</sup>
Inducts and the product of the second product product of the second product of the second product of					
known to occur within the Facility Buffer       N/A         Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer       None         Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer       Tricolored blackbird (Agelaius tricolor) (-, CE) Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Swainson's hawk (Buteo swainsoni) (-, ST)         Westem yellow-billed cuckoo (Coccyus americanus occidentalis) (FT, SE) California black rail (Laterallus jamaicensis coturniculus) (-, ST/FP)         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       None         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       Southern tarplant (Centromadia partyl ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbizi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coastal cactus wren (Campylorhynchus brunneicapillus sandiegensis) (SSC) Burrowing owl (Athene cunicularia) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Pocketed free-tailed bat (Nyctinomops macrotis) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC) Aree species surveys recommended?         Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia         Will work occur in the breeding season (Feb-August)?       Y       N       I			one		
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer       None         Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer       Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Swainson's hawk (Buteo swainsoni) (, ST) Westem yellow-billed cuckoo (Coccyzus americanus occidentalis) (FT, SE) California black rail (Laterallus jamaicensis coturniculus) (, ST/FP)         Other non-listed special status species historically known to occur within the Facility Buffer       None         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       Southern tarplant (Centromadia parryl ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbins) (SSC) Orange-throated whiptal (Aspodssceli shyperythra) (SSC) Orange-throated whiptal (Aspodssceli shyperythra) (SSC) Orast horned lizard (Phrynosoma blainvillii) (SSC) Burrowing owl (Athene cunicularia) (SSC) Duzura pocket mouse (Chaetoclupus californicus femoralis) (SSC) Townsend's big-eared bat (Nyctinomops femorosaccus) (SSC) Metican badger (Taxidea taxus) (SSC)         Are species surveys recommended?       Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia         Will work occur in the breeding season (Feb-August)?       Y       N       I			/A		
Designated Critical Habitat within the Facility Buffer       None         Threatened/Endangered species historically Known to occur within 1.0 mile of the Facility Buffer       Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Swainson's hawk (Buteo swainson) (, ST)         Other non-listed special status species historically known to occur within the Facility Buffer       None         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       None         Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coastal horned lizard (Phrynosoma blainvillii) (SSC) Burrowing owl (Athene cunicularia) (SSC) Coastal cactus wren (Campylorhynchus brunneicapillus sandiegensis) (SSC) White-faced bis (Plagadis chihi) (WL) Pallid bat (Anrizozus paliforius femoralis) (SSC) Uuzura pocket mouse (Chaedolipus californicus femoralis) (SSC) Vestern yellow bat (Lasiurus xanthinus) (SSC) Dulzura pocket mouse (Chaedolipus californicus femoralis) (SSC) Western yellow bat (Lasiurus xanthinus) (SSC) Are species surveys recommended?         Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia         Will work occur in the breeding season (Feb-August)?       Y       N       I					
known to occur within 1.0 mile of the Facility Buffer       Coastal California gnatcatcher (Polioptila californica californica) (FT, SSC) Least Bell's vireo (Vireo belli pusillus) (FE, SE) Swainson's hawk (Buteo swainson) (-, ST) Western yellow-billed cuckoo (Coccyzus americanus occidentalis) (FT, SE) California black rail (Laterallus jamaicensis coturniculus) (-, ST/FP)         Other non-listed special status species historically known to occur within the Facility Buffer       None         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coast horned lizard (Phrynosoma blainvilli) (SSC) Burrowing owl (Athene cunicularia) (SSC) Coastal cactus wren (Campylorhynchus brunneicapillus sandiegensis) (SSC) White-faced ibis (Plagadis chiħ) (WL) Pallid bat (Antrozous pallicus) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Western yellow bat (Lasirus xanthinus) (SSC) Burrowing owl at (Neterotopus femorosaccus) (SSC) Dulzura pocket free-tailed bat (Nyctinomops femorosaccus) (SSC) Meetern yellow bat (Lasirus xanthinus) (SSC)         Are species surveys recommended?       Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia         Will work occur in the breeding season (Feb-August)?       Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia	Designated Critical Habitat within the Buffer	ne Facility	one		
historically known to occur within the Facility Buffer       None         Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer       Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Burrowing owl (Athene cunicularia) (SSC) Burrowing owl (Athene cunicularia) (SSC) Coastal cactus wren (Campylorhynchus brunneicapillus sandiegensis) (SSC) White-faced ibis (Plagadis chih) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) UWestern yellow bat (Lasiurus xanthinus) (SSC) Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC) Big free-tailed bat (Nyctinomops macrotis) (SSC) American badger (Taxidea taxus) (SSC)         Are species surveys recommended?       Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia         Will work occur in the breeding season (Feb-August)?       Y       N       Y       N       If Yes, for what species?       Least Bell's vireo during breeding season	known to occur within 1.0 mile of th	ne Facility C L S W	oastal California gr east Bell's vireo ( <i>V</i> wainson's hawk ( <i>B</i> /estern yellow-bille	hatcatcher (Poliopt ireo bellii pusillus) uteo swainsoni) ( d cuckoo (Coccyzt	ila californica califorica) (FT, SSC) (FE, SE) -, ST) us americanus occidentalis) (FT, SE)
Other non-insted special status species       Southern California legless lizard (Annielia stebbins) (SSC)         historically known to occur within 1.0 mile of       Southern California legless lizard (Annielia stebbins) (SSC)         Orange-throated whiptail (Aspodpscelis hyperythra) (SSC)       Orange-throated whiptail (Aspodpscelis hyperythra) (SSC)         Coast horned lizard (Phrynosoma blainvillii) (SSC)       Burrowing owl (Athene cunicularia) (SSC)         Coastal cactus wren (Campylorhynchus brunneicapillus sandiegensis) (SSC)       White-faced ibis (Plagadis chih) (WL)         Pallid bat (Antrozous pallidus) (SSC)       Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC)         Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC)       Oronsend's big-eared bat (Corynorhinus townsendii) (SSC)         Nestern yellow bat (Lasiurus xanthinus) (SSC)       Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC)         Nerrican badger (Taxidea taxus) (SSC)       American badger (Taxidea taxus) (SSC)         Are species surveys recommended?       Y       N       If Yes, for what species?       Least Bell's vireo during breeding season Diego Ambrosia         Will work occur in the breeding season (Feb-August)?       Y       N       If Y       N       I	historically known to occur within the	ne Facility			
Are species surveys recommended ?     Y     N     Species ?     Diego Ambrosia       Will work occur in the breeding season (Feb-August)?     Y     N     I	historically known to occur within 1	.0 mile of CC B B CC B CC CC CC CC CC CC CC CC CC C	outhern California I prange-throated wh coast horned lizard urrowing owl ( <i>Athe</i> coastal cactus wren /hite-faced ibis ( <i>Pla</i> allid bat ( <i>Antrozous</i> oulzura pocket mou ownsend's big-eard /estern yellow bat ( ocketed free-tailed ig free-tailed bat ( <i>N</i>	egless lizard (Ann. ptail (Aspodpscelis (Phrynosoma blair ne cunicularia) (SS (Campylorhynchu agadis chihi) (WL) s pallidus) (SSC) se (Chaetodipus ca ed bat (Corynorhin Lasiurus xanthinus bat (Nyctinomops lyctinomops macro	iella stebbinsi) (SSC) s hyperythra) (SSC) nvillii) (SSC) SC) as brunneicapillus sandiegensis) (SSC) alifornicus femoralis) (SSC) us townsendii) (SSC) s) (SSC) femorosaccus) (SSC) otis) (SSC)
	Are species surveys recommended	1? Y	N 🗆		Least Bell's vireo during breeding season and Sar Diego Ambrosia
	Will work occur in the breeding sea	son (Feb-Augu	st)?		Y N D
PART III. ADDITIONAL NOTES/COMMENTS		DA		NOTESCOMME	

Earthen channel supporting ponded water at the time of the surveys. Channel bottom is unvegetated with cobble and shelving observed throughout. Nonnative grass species along banks of the channel and Coast live oak present adjacent to the channel on terrace.

Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is

included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



H-21- Via Rancho Parkway and Sunset Drive

PART I. MAINTENANCE FACILITY INFORMATION										
Facility Name	Via Ranch	o Park	way and Sunse	t Drive	Facility ID	H-3	21			
Location	Via Ranch	o Park	way and Sunse	t Drive						
Latitude <sup>1</sup>	33.06798	8	Longitude <sup>1</sup>	-117.065989	Maintena	nce Fre	equency (y	ears)	Annual	У
Maintenance F	acility Type		Outlet		Lining Typ	e Eart	then			
Proposed Main Activities	tenance	One-f One v flow a Equip sedim	ime willow tree willow blocking and has the pote ment will need nent to unclog c	d sediment and wee removal. Willows wi access to the site, 2- ential to act as a deb to be within wetland butlet and create pilot tive shrubs and trees	Il be cut at ba 3 willows hav ris jam during s to access o channel to la	/e large g storm utlet are	e branches events. ea. Backh	s that are p	perpendicular to t	he drainage
Will work occur	when wate	er is in	the channel?	Y 🗌 N			will dewate n be need	ering or wa ed?	ter Y 🗌 N	
				PART II. SURVE	Y INFORMA	TION				
Surveyors	Lanika Cer	vantes				[	Date of Su	irvey	2/27/2019	
Was water in th survey?	ne channel	at the t	ime of the	Y 🗌 N	Hydro	logy Ty	/pe <sup>2</sup> F	י 🗌 ו	⊠ E 🗆	o 🗌
Nearest Name	d Waterbod	y Sar	Dieguito River	r	NWH	ndex N	lot classifi	ed		
NRCS Soils Ramona sandy loam, 5 to 9 percent slopes										
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility										
						Y IN Only Temporary structures are r				
USACE Nonwe Waters Presen		ΥD	3 N 🗆	USACE Wetland Waters Present				oint(s) n	Y 🗌 N	$\boxtimes$
Associated Dat	asheet(s)									
Summary of		f Jurisd	ictional Water	Ha	Habitat Description <sup>3</sup>				elineated within ance Footprint⁴	Impact Tier⁵
Aquatic Habita (Waters of the	ts Wetla	ind Wa	ters		V/E				0.001	
U.S. and State	)						TOTAL			
Section II.b. S	ummary o	f CDFV	V Waters of th	e State Only Within	the Mainter	ance F	acility			
CDFW 1600 Jurisdiction Be USACE Waters	yond		( 🛛 N 🗌	CDFW Regulate				Y	N 🗌	
Summary of Aquatic Habita		f Jurisd	ictional Water	H	abitat Descripti	on³			Delineated within nance Footprint <sup>4</sup>	Impact Tier⁵
(Waters of the	Ripar	ian Ext	ent		V/E				0.001	
State Only)							TOTAL	-	0.001	
Section II.c. S	ummary o	f Vege	tation Commu	nities and Cover Ty	pes Within a	and Ad	ljacent to	the Maint	enance Facility	
Vegetation C	ommunitie	es and		Acres within Study	Area <sup>6</sup>					
Cove	er Types		Maintenan		100-Foot Buffer Total			Dominant	Significant Con	
Riparian and V	Vetland		Footprint		i i ula			Dominali	/Significant Spe	50169
Emergent We	etland		-	0.015	0.015		Anemopsis californica; Eleocharis sp.			
Southern Will		- 11- 1	0.001	0.235	0.236		Salix lasio	olepis		
Subtotal Ripa	Subtotal Riparian and Wetland0.0010.2490.250									

H-21- Via Rancho Parkway and Sunset Drive

Other Land Cover Types			1	
Urban/Developed	-	0.428	0.428	
Disturbed Habitat	-	0.110	0.110	
Subtotal Other Land Cover Types	-	0.538	0.538	
	0.001	0.787	0.788	
Section II.d. Threatened/Endang	ered/Special	Status Species Witl	hin the Vicinity of	f the Maintenance Facility <sup>7</sup>
Special status species observed du field surveys within the Facility Buf	fer	None		
Threatened/Endangered species h known to occur within the Facility B	Buffer	N/A		
Threatened/Endangered species h Designated Critical Habitat within the Buffer	he Facility	None		
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer	ne Facility		reo bellii pusillus) uteo swainsoni) ( d cuckoo (Coccyzu	(FE, SÉ)
Other non-listed special status spe historically known to occur within th Buffer		None		
Other non-listed special status spe historically known to occur within 1 the Facility Buffer	.0 mile of	Orange-throated whi Coast horned lizard ( Burrowing owl ( <i>Athe</i> , White-faced ibis ( <i>Pla</i> Pallid bat ( <i>Antrozous</i> Coastal cactus wren Dulzura pocket mous Townsend's big-eare Western yellow bat (	ptail (Aspodpsceli Phrynosoma blair ne cunicularia) (SS gadis chihi) (WL) pallidus) (SSC) (Campylorhynchu se (Chaetodipus ca d bat (Corynorhin Lasiurus xanthinus bat (Nyctinomops lyctinomops macro axidea taxus) (SSC	nvillii) (SSC) SC) alifornicus femoralis) (SSC) us townsendii) (SSC) s) (SSC) femorosaccus) (SSC) otis) (SSC)
Are species surveys recommended	d?	Y 🛛 N 🗆	If Yes, for what species?	Least Bell's vireo during breeding season
Will work occur in the breeding sea	ason (Feb-Aug	ust)?		Y N D

Earthen channel supporting water at time of survey. Main channel that supports wide wetland floodplain dominated by southern willow scrub and emergent wetland. Small outfall enters site east of main channel, this outfall needs maintenance. In addition, three willows have branches that are growing perpendicular to flow and occur over the main channel, creating a dam effect when large storms occur.

Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

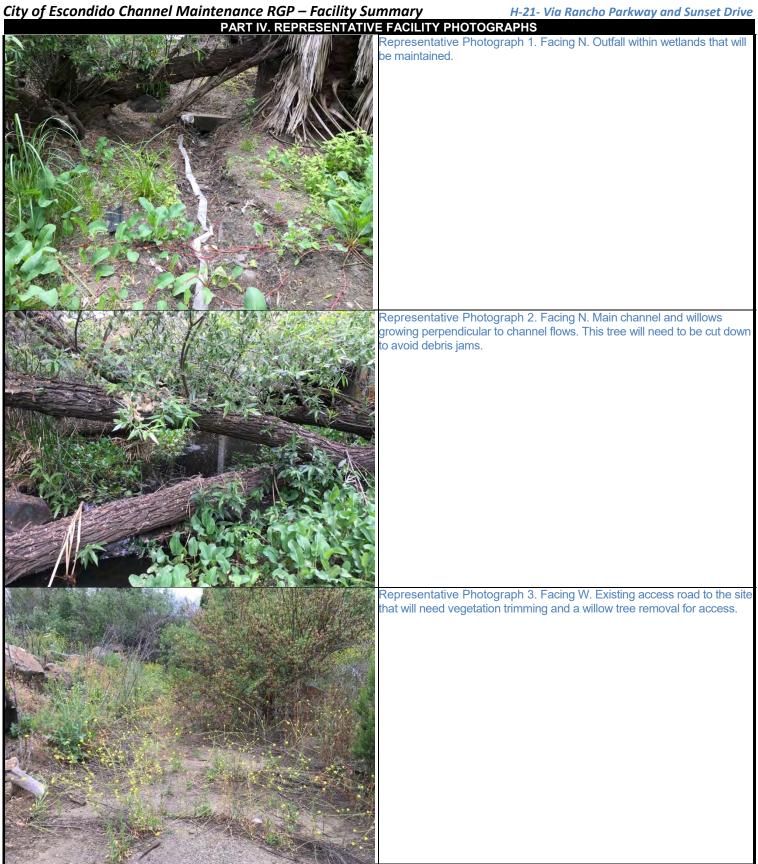
3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Project/Site: City of Escondido RGP	City/	County: Escondido/Sa	n Diego	Sampling Date: 5/8/19		
Applicant/Owner: Via Rancho/Sunset			State:CA	Sampling Point:1.1		
Investigator(s):L.Cervantes	Sect	ion, Township, Range:	Undefined			
Landform (hillslope, terrace, etc.): Active Floodplain	Loca	al relief (concave, conv	ex, none):none	Slope	(%):0	
Subregion (LRR): C - Mediterranean California	Lat: 33.0679	967 Loi	ng:-117.065881	Datum:	NAD 1963	
Soil Map Unit Name: Chino Silt Loam			NWI classi	fication:Freshwater Fo	orested/Shrut	
	significantly distunaturally problem	arbed? Are "Norr natic? (If needed	d, explain any answ	vers in Remarks.)	No ◯ J <b>res, etc.</b>	
Hydric Soil Present? Yes   N	No () No () No () W flow portion	Is the Sampled Are within a Wetland? of the channel.	a Yes (●	) No ()		

#### VEGETATION

	Absolute		Indicator	Dominance Test v	vorksheet	:		
	% Cover	Species?		Number of Domina				
1.Salix laevigata	30	Yes	FACW	That Are OBL, FAC	CW, or FA	C: 4	(	(A)
2.Salix lasiolepis	20	Yes	FACW	- Total Number of Do	ominant			
3.Washingtonia sp.	10	No	FAC	Species Across All Strata: 5 (B)				(B)
4.				Percent of Domina	nt Spacias			
Total Cover	: 60 %			That Are OBL, FAC			0 % (	A/B)
Sapling/Shrub Stratum								
1.Baccharis sarothroides	2	Yes	FACU	Prevalence Index				
2				<u>Total % Cover</u>		Multiply		
3				OBL species	65	x 1 =	65	
4.				FACW species	50	x 2 =	100	
5				FAC species	10	x 3 =	30	
Total Cover	: 2 %			FACU species	2	x 4 =	8	
Herb Stratum				UPL species		x 5 =	0	
1.Anemopsis californica	40	Yes	OBL	Column Totals:	127	(A)	203	(B)
2.Eleocharis palustris	25	Yes	OBL				1 50	
3.				Prevalence Ir			1.60	
4.				Hydrophytic Vege				
5.				X Dominance Te				
6.				× Prevalence Inc				
7.				Morphological	Adaptatio	ns <sup>1</sup> (Provide	supportir	ng
8.						n a separate		
Total Cover	65 %			- Problematic H	yaropnytic	vegetation	(Explain)	)
Woody Vine Stratum	00 /0			1				
1				Indicators of hydri be present.	ic soil and	wetland hyd	Irology n	nust
2								
Total Cover	: %			Hydrophytic				
	of Biotic C		%	Vegetation Present?	Yes 🖲	No C		
Remarks: The sample area is dominated with OBL a	and FAC	W vegetat	ion.					

Depth	Matrix		Redox	Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10 YR 2/2	100					Sandy	
6-18	<u>10 YR 4/2</u>	95	7.5 YR 4/6	5	<u>C</u>	PL	Sandy	
			  M=Reduced Matrix, CS				Prains <sup>2</sup> Location: PL –	Pore Lining, M=Matrix.
Hydric Soil         Histosa         Histic B         Black H         Hydrog         Stratific         1 cm M         Deplet         Thick I         Sandy         Sandy	Indicators: (Applicab	le to all L C)	RRs, unless otherwise         Sandy Redox         Stripped Mat         Loamy Muck         Loamy Gleye         X         Depleted Mat         Redox Dark         Depleted Da         Redox Depre         Vernal Pools	noted.) (S5) rrix (S6) ry Miner ed Matr trix (F3 Surface rk Surface essions	) ral (F1) ix (F2) ) ∋ (F6) ace (F7)		Indicators for Problem 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic ( Red Parent Mate Other (Explain in <sup>3</sup> Indicators of hydroph wetland hydrology m unless disturbed or	natic Hydric Soils <sup>3</sup> : (LRR C) (LRR B) F18) rrial (TF2) Remarks) nytic vegetation and nust be present,
Type: Depth (i	nches):						Hydric Soil Present?	Yes 💿 🛛 No 🔿
Remarks: I	Redox was observed	l with th	e sample area, meet	s deple	eted matrix	ς.		

Wetland Hydrology Indicators:										
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)								
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)								
High Water Table (A2)	Biotic Crust (B12)	X Sediment Deposits (B2) ( <b>Riverine</b> )								
Saturation (A3)	Aquatic Invertebrates (B13)	X Drift Deposits (B3) ( <b>Riverine</b> )								
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)								
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living I	Roots (C3) Tory-Season Water Table (C2)								
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)								
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)								
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Soil	s (C6) Shallow Aquitard (D3)								
Water-Stained Leaves (B9)	Other (Explain in Remarks)	X FAC-Neutral Test (D5)								
Field Observations:										
Surface Water Present? Yes O No 💿	Depth (inches):									
Water Table Present? Yes O No 💿	Depth (inches):									
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): W	/etland Hydrology Present? Yes 💿 No 🔿								
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspection	s), if available:								
Remarks:Two secondary wetland hydrology were observed with the sample area. The wetlands are also located within the OHWM. Abundant racks were also located along the tree trunks.										
Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitorin Remarks:Two secondary wetland hydrology	Depth (inches): Depth (inches): wg well, aerial photos, previous inspection were observed with the sample area.	s), if available:								

Project/Site: City of Escondido RGP	1		_ City/County:Escondido/San Diego			Sampling Date: 5/8/19		
Applicant/Owner: Via Rancho/Sunset					State:CA	Sampling Point:1.2		
Investigator(s):L.Cervantes			Section, To					
Landform (hillslope, terrace, etc.): Oute	r floodplain		Local reliet	(concave, conv	Slope (%):2			
Subregion (LRR). <u>C</u> - Mediterranean California Lat: 33			067960	Loi	ng:-117.065824	Datum:NAD 1963		
Soil Map Unit Name: Chino Silt Loan	1				NWI classifi	cation:Emergent Wetland		
Are climatic / hydrologic conditions on t	he site typical fo	r this time of ye	ar?Yes 🖲	No	(If no, explain in F	Remarks.)		
Are Vegetation Soil or H	significantly	disturbed?	Are "Norr	nal Circumstances"	present? Yes 💿 No 🔿			
Are Vegetation Soil or H	naturally pro	oblematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	samplin	g point locat	ions, transects	, important features, etc.		
Hydrophytic Vegetation Present?	Yes 💿	No 🔘						
Hydric Soil Present?	Yes 🔘	No 💿	Is th	e Sampled Are	a			
Wetland Hydrology Present?	Yes 🔘	No 💿		in a Wetland?	Yes 🔿	No 🖲		
Remarks: The sample point was ap	proximately 1	foot higher in	n elevation	than sample p	oint 1.1.			
VEGETATION								

	Absolute		Indicator	Dominance Test w	orksheet	:		
	% Cover	Species?		Number of Dominan				
1.Salix laevigata	25	Yes	FACW	That Are OBL, FAC	N, or FAC	2: 3		(A)
2.Salix lasiolepis	15	Yes	FACW	- Total Number of Do	minant			
3				Species Across All S		4		(B)
4.				Percent of Dominan	t Spacias			
Total Cover	: 40 %			That Are OBL, FAC			) %	(A/B)
Sapling/Shrub Stratum							,,,	. ,
1				Prevalence Index v				
2				Total % Cover of	of:	Multiply	- 1	
3.				OBL species	5	x 1 =	5	
4				FACW species	40	x 2 =	80	
5.				FAC species		x 3 =	0	
Total Cover	: %			FACU species	3	x 4 =	12	
Herb Stratum				UPL species	10	x 5 =	50	
1.Hirschfeldia incana	10	Yes	Not Listed	Column Totals:	58	(A)	147	(B)
<sup>2</sup> .Anemopsis californica	5	Yes	OBL			. ,		
3. Ambrosia psilostachya	3	No	FACU	Prevalence Inc			2.53	
4.				Hydrophytic Veget	ation Ind	icators:		
5.				Dominance Tes	t is >50%			
6.				Prevalence Inde	ex is ≤3.0 <sup>°</sup>	I		
7.				Morphological A				ng
8.						a separate s	,	
Total Cover	18 %		·	Problematic Hy	drophytic	Vegetation' (	Explain	)
Woody Vine Stratum	10 /0							
1				<sup>1</sup> Indicators of hydric	soil and	wetland hydi	ology r	nust
2				be present.				
Total Cover	: %			Hydrophytic				
	of Biotic C		%		Yes 🖲	No 🔿		
Remarks: The sample area is dominated with FACV	V tree veg	getation a	nd the herb	aceous vegetation of	bserved	within the s	ample	area
is mixed with upland and wetland vegetat	ion.							

		to the dept			or or confiri	m the absence of indicators.)				
Depth	Matrix			x Features	4 1 2					
(inches)	Color (moist)	%	Color (moist)	Туре	e <sup>1</sup> Loc <sup>2</sup>	Texture Remarks				
0-14	10 YR 3/2	100				Loamy Clay				
<sup>1</sup> Type: C=0	 Concentration, D=Dep	letion, RM=	Reduced Matrix, CS	S=Covered or Co	ated Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
Hydric Soil	Indicators: (Applicab	le to all LRR	s, unless otherwise	noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :				
Histos	ol (A1)			1 cm Muck (A9) (LRR C)						
Histic E	Epipedon (A2)		Stripped Ma	atrix (S6)		2 cm Muck (A10) ( <b>LRR B</b> )				
Black H	Histic (A3)		Loamy Muc	ky Mineral (F1)		Reduced Vertic (F18)				
Hydrogen Sulfide (A4)						Red Parent Material (TF2)				
Stratifi	ed Layers (A5) (LRR (	C)	Depleted M	atrix (F3)		Other (Explain in Remarks)				
	luck (A9) (LRR D)	,	·	Surface (F6)						
	ed Below Dark Surfac	e (A11)		ark Surface (F7)						
	Dark Surface (A12)	( )	·	ressions (F8)		<sup>3</sup> Indicators of hydrophytic vegetation and				
	Mucky Mineral (S1)		Vernal Pool			wetland hydrology must be present,				
·	Gleyed Matrix (S4)			- ( - /		unless disturbed or problematic.				
	E Layer (if present):					·				
Type:										
Depth (i	nches):					Hydric Soil Present? Yes No (	Ð			
Remarks: ]	No hydric soil indic	ators were	observed within	the sample are	a.					
	•			1						

Wetland Hydrology Indicators:		
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3) Ty-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed Sc	bils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes 🔿 No 💿	Depth (inches):	
Water Table Present? Yes O No 💿	Depth (inches):	
Saturation Present? Yes No • No •	Depth (inches):	Wetland Hydrology Present? Yes 🔿 No 💿
Describe Recorded Data (stream gauge, monitoring		
Remarks:No primary nor secondary wetland h outside of the OHWM and no flow in		l with the sample area. The sample area was observed

SM-05 - Woodland Parkway

PART I. MAINTENANCE FACILITY INFORMATION													
Facility Name	Woodland	Parkway	у			Facility	/ ID	SM-05	5				
Location	Woodland	Parkway	y and Foothill \	/iew Way	<u> </u>				<u> </u>				
Latitude <sup>1</sup>	33.15961	8 L	ongitude <sup>1</sup>	-117.128832		Mainte	nance	Freque	ncy (ye	ears)		Annuall	у
Maintenance F	acility Type	C	Outlet and Inlet		Lining Type Earthen								
		Remov	ve accumulated	I sediment and	weed	removal	and d	ead veg	etatior	n/debris t	hrougho	out entire d	rainage.
Proposed Main Activities	tenance	inlets a No dra Native	and outlets. gging of equipr tree trimming a	ged on the stre ment along ban as needed to all be used to rem	ks and low eq	l no equi uipment	ipment acces	t in chan s.	nnel.				nt to unclog
Will work occur	when wate	er is in th	ne channel?	ΥX	N		dive	rsion be		ring or w ed?	ater Y	N	
				PART II. SU	RVEY	INFOR	MATIC	ON					
Surveyors	Lanika Cer	vantes a	and William Kol	nn				Date	e of Su	rvey		2/26/2019	
Was water in th survey?	ne channel	at the tin	ne of the	Y 🛛	ΝĽ	] Ну	drolog	y Type <sup>2</sup>	P			E 🗌 (	o 🗆
Nearest Name	d Waterbod	ly San I	Marcos Creek			NV	VI Inde	ex Not c	lassifie	ed			
NRCS Soils	as Posas fi	ne sandy	y loam, 9 to 15	percent slopes	; Las F	<sup>D</sup> osas st	ony fin	ne sandy	/ loam	, 30 to 65	5 percen	t slopes	
Section II.a. S	ummarv of	LUSACE	=/RWQCB/CDI	EW Waters of t	be U.S	S. and S	tate V	Vithin th	e Mai	ntenanc	e.Facilit		
Section II.a. Summary of USACE/RWQCB/CDFV           USACE 404/RWQCB 401 Jurisdiction         Y								egulated			Y [ Only]	N N N N N N N N N N N N N N N N N N N	
USACE Nonwe Waters Presen		ΥD	N 🛛 '	USACE Wetland Waters Present	6	Y 🛛	Ν		Datapo Taken		Y	N N	
Associated Dat	asheet(s)		Wetland Sam	ple Points 1.1 a	nd 1.2	2							
Summary of		of Jurisdi	ictional Water		Habi	itat Descri	iption <sup>3</sup>				Delineated enance Fo		Impact Tier⁵
Aquatic Habitat (Waters of the		land Wat	ters			V/E					0.028		I
and State)	0.0.				TOTAL					L 0.028			
Section II.b. S	ummarv o	f CDFW	Waters of the	State Only Wi	ithin tl	he Main	tenand	ce Facil	itv				
CDFW 1600 Jurisdiction Bey USACE Waters	yond	Υ		CDFW Reg						ΥX	N		
Summary of		of Jurisdi	ictional Water		Hab	itat Descr	iption <sup>3</sup>				Delineate enance Fo		Impact Tier⁵
Aquatic Habitation (Waters of the	ts Ripa	arian Ext	ent			V/E					0.077		I
State Only)	Ripa	arian Ext	ent			V/E					0.001		II
									OTAL		0.078		
Section II.c. S Vegetation C				ities and Cove Acres within St			in and	Adjace	ent to t	the Main	tenance	e Facility	
	er Types		Maintenanc Footprint	e 100-Foot B	uffer	Тс	otal			Dominar	nt/Sianif	ficant Spe	cies
Riparian and V			•					I					
Southern Arro Forest	oyo Willow	Riparian		0.146			164		Salix lasiolepis				
Southern Ripa	arian Scrub	)	0.025	0.301		0.3	325	Euca	Eucalyptus sp., Sambucus sp., Salix lasiolepis				lasiolepis

*City of Escondido Channel Maintenance RGP – Facility Summary* 

SM-05 - Woodland Parkway

ity of Esconarao channel wh		noi idenity s	junninar y	<i>Sivi-05 - Woodiana Faikwa</i>			
Subtotal Riparian and Wetland	0.043	0.447	0.489				
Upland		•		·			
Southern Coast Live Oak Riparian Forest	0.035	0.248	0.283	Quercus agrifolia			
Non-Native Grassland	0.001	0.011	0.012				
Non-Native Woodland	-	0.296	0.296	Schinus terebinthifolia			
Subtotal Upland	0.036	0.556	0.592				
Other							
Urban/ Developed	-	5.69	5.69				
Subtotal Other		5.69	5.69				
GRAND TOTAL <sup>6</sup>	0.079	6.689	6.768				
Section II.d. Threatened/Endange	ered/Specia	Status Species V	Vithin the Vicinity	of the Maintenance Facility <sup>7</sup>			
Special status species observed du field surveys within the Facility Buff	None						
Threatened/Endangered species hi known to occur within the Facility B	N/A						
Threatened/Endangered species ha Designated Critical Habitat within th Buffer	None						
Threatened/Endangered species h known to occur within 1.0 mile of th Buffer		San Diego button-celery ( <i>Eryngium aristulatum</i> var. <i>parishil</i> ) (FE, SE, CRPR 1B.1) Spreading navarretia ( <i>Navarretia fossalis</i> ) (FT,, CRPR 1B.1)					
Other non-listed special status spec historically known to occur within th Buffer		None					
Other non-listed special status spec historically known to occur within 1. the Facility Buffer	known to occur within 1.0 mile of Summer bolly (Comarostanbylis diversifolia ssp. diversifolia) (CRPR 1B.1)						
Are species surveys recommended	?	Y 🛛 N [	If Yes, for what species?	Least Bell's vireo during breeding season and Sa Diego Ambroisa			
Will work occur in the breeding sea	son (Feb-Au	gust)?		Y N D			
		ART III. ADDITION	NAL NOTES/COM	MENTS			
Channel begins at outfall structure				vey. Shelving was evident throughout and wrack,			

Channel begins at outfall structure and supported ponded water at the time of the survey. Shelving was evident throughout and wrack, sediment deposition, and drainage patterns were also observed. Wetlands occur within the OHWM. Channel is dominated by *Vitis californica and Salix lasiolepis* with lots of organic debris within channel bottom. North of the upstream outfall structure there is no jurisdictional drainage, this area is a toe of slope dominated by coast live oak.

#### Footnotes:

1. Coordinates are based on the centroid of the facility.

2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water

3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete

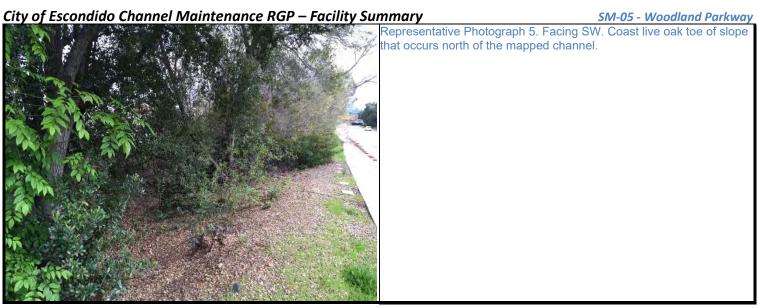
4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.

5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.

6. Totals may not add up due to rounding.

7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).





Project/Site: City of Escondido Chan	nel Maintena	nce RGP	City/County:Escondido/San Diego			Sampling Date: 2/26/2019		
Applicant/Owner: City of Escondido				Sta	ate:CA	Sampling Po	oint:SM-05 WSP 1.4	
Investigator(s): Lanika Cervantes; Wi	lliam Kohn		Section, Townsh	nip, Range:				
Landform (hillslope, terrace, etc.): drain	Local relief (concave, convex, none):concave Slope				Slope (%):3			
Subregion (LRR): <u>C</u> - Mediterranean C	.160289	Long:-1	17.128788		Datum:			
Soil Map Unit Name: Las Posas fine sa	undy loam, 9	to 15 percent	slopes, eroded		NWI classifi	cation:N/A		
Are climatic / hydrologic conditions on th	e site typical fc	or this time of ye	ear?Yes 🖲	No 🔿 (If r	no, explain in F	Remarks.)		
Are Vegetation Soil or Hy	/drology	significantly	/ disturbed?	Are "Normal Ci	rcumstances"	present? Yes	s 💿 No 🔿	
Are Vegetation Soil or Hy	/drology	naturally pr	oblematic?	(If needed, exp	lain any answe	ers in Remarks	s.)	
SUMMARY OF FINDINGS - At	tach site m	ap showing	sampling po	oint locations	s, transects	, importan	t features, etc.	
Hydrophytic Vegetation Present?	Yes 💽	No 🔘						
Hydric Soil Present? Yes   No			Is the Sa	mpled Area				
Wetland Hydrology Present?	Yes 💿	No 🔘	within a	Wetland?	Yes 🔘	No 🔿		

Remarks:Sample point taken within the drainage.

#### VEGETATION

	Absolute		Indicator	Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)		Species?		Number of Dominar				
1.Salix lasiolepis	15	Yes	FACW	That Are OBL, FAC	W, or FA	C: 3	(	(A)
2				Total Number of Dominant				
3				Species Across All		4	(	(B)
4.				Percent of Dominar	t Spacia			
Total Cove	r: 15 %			That Are OBL, FAC			0 % (	(A/B)
1.				Prevalence Index	vorkshe	et:		
2.				Total % Cover	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.				FACW species	35	x 2 =	70	
5.				FAC species	15	x 3 =	45	
Total Cover	. %			FACU species	15	x 4 =	0	
Herb Stratum	. 70			UPL species	5	x 5 =	25	
1.Cyperus involucratus	20	Yes	FACW	Column Totals:	55	(A)	140	(B)
2. Bromus diandrus	5	Yes	Not Listed					. ,
3.				Prevalence In	dex = B/	A =	2.55	
4.				Hydrophytic Vege	ation Ind	dicators:		
5.				Dominance Tes	st is >50%	6		
6.				× Prevalence Ind	ex is ≤3.0	) <sup>1</sup>		
7				Morphological A		ns <sup>1</sup> (Provide s n a separate		ng
8				- Problematic Hy			,	)
Total Cover	25 %				aropriyac	vegetation		)
Woody Vine Stratum	15	Var	210	<sup>1</sup> Indicators of hydrid		h wotland hus	trology r	nuct
1. Vitis girdiana	15	Yes	FAC	be present.	son and	a welland nyo	nology n	nusi
2				-				
Total Cover	: 15 %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 75 % % Cover	r of Biotic (	Crust	%	Present?	Yes 🖲	No 🔿		
Remarks: Area is sparsely vegetated but is dominated	ed by wet	land vege	tation.	_				

Profile Des	cription: (Describe t	o the de	pth needed to docu	iment the	indicator	or confiri	m the absence of i	indicators.)				
Depth	Matrix			ox Feature								
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks			
0-12	7.5 YR 4/2	90	Gley 1 2.5/N	10	С	PL	Loamy/Clay	wet soils				
						·						
<sup>1</sup> Type: C=0	Concentration, D=Deple	etion, RM	I=Reduced Matrix, C	S=Covere	ed or Coate	ed Sand G	Grains. <sup>2</sup> Locatio	n: PL=Pore Lining, N	/I=Matrix.			
Hydric Soil	Indicators: (Applicable	e to all LF	Rs, unless otherwis	e noted.)			Indicators for I	Problematic Hydric S	oils:			
Histoso	ol (A1)		Sandy Red	ox (S5)			1 cm Muc	k (A9) ( <b>LRR C</b> )				
Histic Epipedon (A2)								k (A10) ( <b>LRR B</b> )				
Black Histic (A3)					. ,			Vertic (F18)				
Hydrogen Sulfide (A4)							Red Parent Material (TF2)					
Stratified Layers (A5) (LRR C)							Other (Explain in Remarks)					
	luck (A9) ( <b>LRR D</b> ) ed Below Dark Surface	(11)	Redox Da		. ,							
	ark Surface (A12)	(ATT)	Redox De		. ,		<sup>3</sup> Indicators of k	wdrophytic vogotatic	n and			
	Mucky Mineral (S1)		Vernal Po		(10)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,					
	Gleyed Matrix (S4)						unless disturbed or problematic.					
·	Layer (if present):											
Type:	, ,											
Depth (ii	nches):						Hydric Soil Pre	esent? Yes 🖲	Νο 〇			
Remarks:	·											
0	Groundwater at 12 ir	nches. Se	oils wet with redo	x in the f	form of co	oncentrat	ions of Magnesiu	ım.				
							U					
HYDROLO	DGY											
	drology Indicators:											

Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) ( <b>Riverine</b> )
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Liv	ing Roots (C3) 🗍 Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Soils (C6) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No      No      Depth (inches):	
Water Table Present? Yes  No  Depth (inches): 12 inches	
Saturation Present? Yes No Depth (inches): 8 inches	Wetland Hydrology Present? Yes   No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Remarks:Large amounts of sediment and drift deposits within channel. In add	ition, vegetation is pushed down due to flow.

Project/Site: City of Escondido Chann	el Maintenar	ice RGP	City/County:Esco	ty/County:Escondido/San Diego			Sampling Date:2/26/2019		
Applicant/Owner: City of Escondido					State:CA	Sampling P	oint:SM-05 W	SP 1.2	
Investigator(s): Lanika Cervantes; Will	iam Kohn		Section, Township, Range:						
Landform (hillslope, terrace, etc.): hillslop	Landform (hillslope, terrace, etc.): hillslope				Local relief (concave, convex, none):convex Slope				
Subregion (LRR): C - Mediterranean Ca	alifornia	Lat: 33.	160295	Long	-117.128805		Datum:		
Soil Map Unit Name: Las Posas fine sar	ndy loam, 9 t	o 15 percent	slopes, eroded		NWI classific	cation:N/A			
Are climatic / hydrologic conditions on the	site typical for	this time of ye	ear? Yes 💽	No	(If no, explain in F	emarks.)			
Are Vegetation Soil or Hyd	I Circumstances"	present? Ye	s 💿 🛛 No (	$\supset$					
Are Vegetation Soil or Hyd	lrology	naturally pro	oblematic?	ematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Atta	ach site ma	p showing	sampling po	int locatio	ons, transects	, importan	t features,	etc.	
Hydrophytic Vegetation Present?	Yes 🔘	No 💿							
Hydric Soil Present?	Yes 🔘	No 💿	Is the Sa	mpled Area					
Wetland Hydrology Present? Yes No 💿			within a V		Yes 🔿	No 🖲			
Remarks:Sample point taken on cha	nnel bank ap	proximately	3.5 feet higher i	n elevation	from 1.1.				

#### VEGETATION

	Absolute	Dominant		Dominance Test w	orksheet	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina				
1				That Are OBL, FAC	W, or FA	C: 1	(	(A)
2				Total Number of Do	minant			
3.				Species Across All		3	(	(B)
4.				<ul> <li>Percent of Dominar</li> </ul>	at Casaisa			
Total Cove	r: %			That Are OBL, FAC			3 % (	A/B)
Sapling/Shrub Stratum							/// (	,
1.Quercus agrifolia	5	Yes	Not Listed	Prevalence Index worksheet:				
2.				Total % Cover	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5.				FAC species	10	x 3 =	30	
Total Cover	: 5 %			FACU species		x 4 =	0	
Herb Stratum				UPL species	30	x 5 =	150	
1.Bromus diandrus	25	Yes	Not Listed	Column Totals:	40	(A)	180	(B)
2					40	(* *)	100	( )
3.		·		Prevalence In	dex = B/A	Α =	4.50	
4.				Hydrophytic Vege	tation Ind	licators:		
5.				Dominance Te	st is >50%	, 0		
6.				Prevalence Ind	lex is ≤3.0	) <sup>1</sup>		
7.		·		Morphological				ng
8.						n a separate s	,	
Total Cover	25 %	·		Problematic Hy	/drophytic	Vegetation <sup>1</sup> (	Explain)	)
Woody Vine Stratum	- 23 %							
1.Vitis girdiana	10	Yes	FAC	<sup>1</sup> Indicators of hydri	c soil and	l wetland hyd	rology n	nust
2.				be present.				
Total Cover	: 10 %			Hydrophytic				
% Bare Ground in Herb Stratum 75 % % Cover	r of Biotic C	ruot	0/	Vegetation	Yes 〇	No 🖲		
		Just	%	Present?	res ()	NO U		
Remarks: Steep hillslope dominated by upland vege	etation.							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)						
Depth	Matrix		Redox Features			
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	7.5 YR 4/4	100	N/A		Loamy/Clay	dry soils
			I=Reduced Matrix, CS=Covered or Coated	d Sand G		on: PL=Pore Lining, M=Matrix.
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick E Sandy Sandy		;)	RRs, unless otherwise noted.)         Sandy Redox (S5)         Stripped Matrix (S6)         Loamy Mucky Mineral (F1)         Depleted Matrix (F2)         Depleted Matrix (F3)         Redox Dark Surface (F6)         Depleted Dark Surface (F7)         Redox Depressions (F8)         Vernal Pools (F9)		1 cm Muc     2 cm Muc     Reduced     Red Pare     Other (Exp <sup>3</sup> Indicators of H     wetland hydro	Problematic Hydric Soils <sup>*</sup> : k (A9) ( <b>LRR C</b> ) k (A10) ( <b>LRR B</b> ) Vertic (F18) nt Material (TF2) plain in Remarks) hydrophytic vegetation and blogy must be present, bed or problematic.
Depth (i	nches):				Hydric Soil Pre	esent? Yes 🔿 No 🖲
Remarks: 1	No redox observed a	nd soils	drying than those observed within th	e wetla	nd area.	

Wetland Hydrology Indicators:					
Primary Indicators (any one indicator is sufficient)		Secondary Indicators (2 or more required)			
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)			
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) ( <b>Riverine</b> )			
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )			
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)			
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3) Dry-Season Water Table (C2)			
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed So	ils (C6) Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes O No 💿	Depth (inches):				
Water Table Present? Yes O No 💿	Depth (inches):				
Saturation Present? Yes No ( includes capillary fringe)	Depth (inches):	Vetland Hydrology Present? Yes 🔿 No 💿			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No hydrology indicators observed within this area. Sample point taken 3 feet higher in elevation from 1.1.					
		C			

# APPENDIX D. CULTURAL RESOURCES TECHNICAL REPORT

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## ESCONDIDO RGP 94 CHANNEL MAINTENANCE PROGRAM CULTURAL RESOURCES INVENTORY, CITY OF ESCONDIDO, SAN DIEGO COUNTY, CALIFORNIA

**P**REPARED FOR:

City of Escondido 210 North Broadway Escondido, California 92025

#### **P**REPARED BY:

ICF 525 B Street, Suite 1700 San Diego, CA 92101 Contact: Patrick McGinnis 858.444.3913

**OCTOBER 2020** 



ICF. 2020. Escondido RGP 94 Channel Maintenance Program Cultural Resources Inventory, City of Escondido, San Diego County, California. (ICF 59.19) Escondido, CA. Prepared for City of Escondido, San Diego County, CA.

#### NATIONAL ARCHAEOLOGICAL DATABASE INFORMATION

Author(s):	Patrick McGinnis, MA, RPA Nara Cox, BA Karen Crawford, MA, RPA
Consulting Firm:	ICF 525 B Street, Suite 1700 San Diego, CA 92101 858.444.3913
Client:	City of Escondido
Report Date:	October 2020
Report Title:	Escondido RGP 94 Channel Maintenance Program Cultural Resources Inventory, City of Escondido, San Diego County, California.
Type of Study:	Cultural Resources Inventory
New Sites:	ICF-ESC94-P-001
Updated Sites:	CA-SDI-572, CA-SDI-6726 CA-SDI-6727, CA-SDI-8220, CA-SDI-12601, P-37-015577, P-37-017871, P-37-30889
USGS Quadrangle:	San Marcos, Valley Center, and Escondido, California; 7.5-minute series (1:24,000)
Acreage:	Study area 361 acres
Keywords:	Inventory; California Register of Historical Resources

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# **Acronyms and Abbreviations**

Acronym	Definition
AB 52	Assembly Bill 52
amsl	above mean sea level
APE	Area of Potential Effects
BMPs	Best Management Practices
BP	before present
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
Channel Maintenance Project RGP 94 Renewal or RGP 94 Renewal	94 – Channel Maintenance Program
City	City of Escondido
CRHR	California Register of Historical Resources
FLPMA	Federal Land Policy Management Act
MS4	Municipal Separate Storm Sewer System
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
PRC	Public Resources Code
RGP	Regional General Permit
SCIC	South Coastal Information Center
SDCWA	San Diego County Water Authority
SHPO	State Historic Preservation Officer
USGS	U.S. Geological Survey
VID	Vista Irrigation District
WoS	waters of the State
WoUS	waters of the U.S.

The City of Escondido (City) is applying for mitigation for the renewal of the City of Escondido's Regional General Permit (RGP) 94 – Channel Maintenance Program (Channel Maintenance Project RGP 94 Renewal or RGP 94 Renewal). The City owns and operates Municipal Separate Storm Sewer System (MS4) infrastructure, including facilities that manage drainages within the city and in flood control channels. The Channel Maintenance Project RGP 94 was approved by State and Federal permitting authorities in 2015 to perform operations and maintenance activities at 63 storm water facilities. As the current Channel Maintenance Project RGP 94 permits expire in May 2020, the City is seeking to renew and amend the permit to include 24 additional maintenance locations and one expanded maintenance location, along with additional mitigation for associated impacts. Additionally, the City will seek separate permitting for two one-time improvement projects.

Work performed in these facilities and on associated roads has the potential to cause impacts to significant historic resources. ICF was contracted to conduct an archaeological survey of the facilities in support of the permit process. A records search was conducted in May and June 2019, at the South Coastal Information Center (SCIC). The records search indicates that 92 cultural resources are located within a 0.5-mile radius of the study area, eight of which intersect with project facilities and the 50-foot survey buffer: a prehistoric lithic scatter (P-37-000572); a prehistoric habitation site (P-37-008280); prehistoric bedrock milling sites and associated artifacts (P-37-006726; P-74-6727; and P-37-012601); a prehistoric isolated mano and flake (P-37-015577); a historic residence (P-37-017871); and a historic flume (P-37-030889).

ICF archaeologists conducted a pedestrian survey of the 361-acre survey area in October and November 2019. The survey area consisted of each facility location and a 50-buffer. During the field surveys, none of the eight previously recorded archaeological resources were relocated during the pedestrian surveys. One new prehistoric bedrock milling site, ICF-ESC94-P-001, was identified. However, several of the facilities could not be surveyed adequately due to poor visibility. It is recommended that a qualified archaeologist monitor the initial maintenance activities at these facilities. Based upon the results of initial ground disturbance, the monitor would be able to determine if the potential for subsurface disturbance warrants further monitoring. Monitoring requirements will be included in the Monitoring and Discovery Plan, along with measures to address any cultural discoveries during project-related activities. Once the areas have been inspected by an archaeologist and monitoring has been completed, documentation will be prepared confirming that there is no further need to monitor future maintenance activities at the same facility locations.

## **Project Description**

The proposed project is within the City of Escondido, San Diego County, California. The project site is mapped within the Escondido, California, U.S. Geological Survey (USGS) 7.5-minute topographic map quadrangle (Figure 1 and 2).

The Channel Maintenance Project RGP 94 was approved by State and Federal permitting authorities in 2015 to perform operations and maintenance activities at 63 storm water facilities. As the current Channel Maintenance Project RGP 94 permits expire in May 2020, the City is seeking to renew and amend the permit to include 24 additional maintenance locations and one expanded maintenance locations, along with additional mitigation for associated impacts (see Table 1, to follow). The amended permit would allow the City to conduct Operations and Management (O&M ) activities at 87 existing concrete and earthen storm water facilities. These activities would impact functions and services of non-wetland and wetland waters of the U.S. (WoUS) and waters of the State (WoS), as well as California Department of Fish and Wildlife (CDFW) riparian habitat and streambed.

Work activities will be conducted approximately annually or biannually as needed and as staff and budget allocations allow at each location. Most work activities at each site will be conducted and completed within 2-5 days.

#### **Stream Diversions and BMPS**

Stream diversions and Best Management Practices (BMPs) will be implemented for all facility locations during maintenance activities. If water is present during the time of the maintenance activity, flows/ponded water will be dammed by the installation of either gravel or sediment bags. Due to the varying channel widths, implementation of a coffer dam is not possible at all locations. Therefore, work within wetted portion of some channels may be needed. If work is conducted within the wetted portion of a channel, the City will employ a series of check dams downstream of the maintenance location to reduce flow velocities and allow any suspended particulates to settle out of the water column. Additionally, a pump diversion system may be used when appropriate.

If streams are dry, BMPs in the form of straw wattles will be used to prevent sediment or debris from entering downstream waters.

#### **Staging and Access**

Equipment staging and stockpiling of spoils will not occur within the limits of jurisdictional waters. Equipment will be staged on existing developed surface roads, lots, or disturbed habitat, when feasible. Sediment, debris, and vegetative material will be removed from the immediate area, stockpiled within surface roads, lots, or disturbed habitat, and then moved off-site to City Public Works facilities. Spoils will be disposed of appropriately or reused for other projects throughout the City, where appropriate.

#### New Project Activities to be Included in RGP

As part of the amendment, the City would like to request that additional project activities be added and covered under the renewed RGP 94 for all facility locations included in the RGP (i.e., both new facility locations and the current facility locations already included). These new project activities are further described below.

#### **Repairs/Maintenance of Existing Hardscaped Structures**

The City proposes to include the repairs of existing concrete aprons and/or concrete-lined drainages as part of the RGP. Repairs will include minor repairs to segments of concrete-lined channels or riprap-lined segments that will not result in the modification of the character, size, or scope of the original fill design. Additionally, these repairs will be limited to either current or new RGP sites. Larger drainages, such as Indian Wells or Escondido Creek, would not be included/covered.

Only one facility location, H-18 Kit Carson Bike Trail, currently is noted as needing repairs to a segment of its Concrete Channel. However, the City would like the ability to complete these types of repairs to any hardscape facility included in the RGP.

In addition to the RGP Area of Potential Effects (APE) discussed above, the City is also proposing two one-time improvement projects that will occur at two facility locations that are currently maintained as part of RGP 94. These projects will be permitted separate from RGP 94. The specific activities proposed at these sites are further described below.

#### H-02A – 1840 S Centre City Parkway

The maintenance of this facility is already included as a current site, and an expanded area is proposed under the RGP renewal. In addition to the proposed annual maintenance, the City would also like to concrete-line the roadside drainage portion of this facility because this portion of the roadside channel erodes severely every year.

#### E-47 – Fleetwood Street

The maintenance of this facility is already included as a current RGP site. In addition to the proposed annual maintenance, the City is also proposing the following one-time work activities:

- Repair the existing concrete apron.
- Expand the current RGP site by dredging/removing old material directly upstream of the concrete apron and adding up to 10 feet of rip rap.
- Replace an existing 18-inch diameter reinforced concrete pipeline (RCP) that runs beneath the concrete apron, parallel to the drainage, which would result in temporary impacts associated with trenching the pipeline alignment to uncover the existing pipeline and complete the replacement activities. All temporary impacts will be restored to pre-construction contours.
- The maintenance footprint for E-47 will then be extended to include both the concrete apron and the added riprap area for maintenance work under the RGP in subsequent years.

## Introduction

The City is requesting the extension of the existing RGP 94 permit for the City of Escondido's Regional General Permit 94 – Channel Maintenance Program and the amendment of this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), and include additional work activities.

The project description and work proposed at the existing 63 facility locations currently authorized under RGP 94 will remain the same. The overall project description for all new facility locations is provided below, under *Project Description*.

The types of facilities that will be added as new facilities under RGP 94 include:

- Earthen streams/creeks and storm water channels with hydrologic regimes ranging from ephemeral to perennial.
- Concrete bottom channels with hydrologic regimes of ephemeral and intermittent.
- Culverts and their associated inlets and outlets.
- A storm water basin.

The following work activities will be conducted at the facility locations:

- Accumulated sediment and herbaceous vegetation within Concrete Channels and earthen streams/creeks will be excavated to allow for positive flow.
- Culvert inlets and outlets will be excavated and cleared within a specified radius.
- Nonnative trees will be removed within specified facility locations.
- One-time native tree removal to gain access and/or allow for positive flows will occur at specific facility locations (either cut at stump, leaving root in place, or root and all removal depending upon its location).
- Native shrub and tree cover that inhibits positive flow and creates debris jams will be trimmed.
- Accumulated sediment and vegetation within a basin will be excavated.
- Repairs of concrete to original design conditions (if approved).

In support of this permit, ICF conducted an archaeological survey of the 24 new facilities, two onetime improvements at existing facilities, and the proposed mitigation site, and prepared a technical report. An intensive pedestrian survey was conducted in October and November 2019.

# **Area of Potential Effects**

The APE includes the 24 added facilities, one expanded facility, two improvement areas, and the proposed mitigation site and a 50-foot buffer and associated roads that could be impacted by project activities.

Table 1. Project Site Locations and Proposed Act	ivities
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Facility ID	Site Name	Maintenance footprint	Maintenance Activities	Lining Type
E-48	W 4th Ave	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-49	W 5th and Pine	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-50	W 5th Ave	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-51	800 W Valley	Earthen segment – handwork only	Removal of nonnative vegetation; trimming of native trees/shrubs as needed	Earthen ditch
E-52	Rock Springs	Full site	Remove accumulated sediment and weed removal	Earthen ditch and concrete
E-53	Reidy Creek – Rincon to Pleasantwood	15ft from concrete apron (full bank width) 10ft wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel	Earthen ditch
E-54	Reidy Creek – Morning View	Varies Handwork/Tree Removal for full site	At outlets – Remove accumulated sediment Handwork – Removal of nonnative vegetation; trimming of native trees/shrubs as needed	Earthen ditch
E-55	HARRF	Full site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Concrete
E-56	McLeod Park	Full site	Remove accumulated sediment and weed removal	Asphalt
E-57	Bienvenido and Vista	20 feet from headwall x full bank width	Remove accumulated sediment and weed removal	Earthen ditch
E-58	Reidy Creek Golf Course	10 feet total wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel Handwork – trimming of native trees/shrubs as needed	Earthen ditch
E-59	E Side CCP and 13th	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-60	E-60 Oak Valley Lane 20ft radi headwall		Remove accumulated sediment and herbaceous vegetation	Earthen ditch
E-61	Viking Place Full site Concrete Channel		Remove accumulated sediment and vegetation within Concrete Channel	Concrete
E-62	Reidy Creek – Lincoln Full site Concrete Ave Channel		Remove accumulated sediment and vegetation within Concrete Channel	Concrete
H-14	Miller Ave	Full site	Remove accumulated sediment and weed removal	Asphalt and Earthen
H-15	Sierra Linda	20 feet from headwall	Remove accumulated sediment and weed removal	Earthen ditch

Cultural Resources Inventory

Facility ID	Site Name	Maintenance footprint	Maintenance Activities	Lining Type
H-16	Concerto and Beethoven	Access to outlet and 20 feet from headwall	Remove accumulated sediment and weed removal	Earthen ditch
H-17	Bear Valley Pkwy	20 feet from headwall x 5 feet wide	Remove accumulated sediment and weed removal	Earthen ditch
H-18	Kit Carson Bike Trail	Full site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Concrete
H-19	Encino and Amparo	Full site	Remove accumulated sediment and weed removal	Earthen ditch
H-20	Sunset and Bear Valley	30 feet from headwall	Remove accumulated sediment and weed removal	Earthen ditch
H-21	Via Rancho Pkwy and Sunset Dr	15 feet x 3 feet wide from small outlet.	Removal of 3–4 willow trees	Earthen ditch
SM-05	Woodland Pkwy	20ft from each headwall x width of bank	Remove accumulated sediment and weed removal Remove dead vegetation/debris throughout entire drainage	Earthen ditch
Proposed Exte	ension of Existing Site			
H-02 A	1840 S Centre City Pkwy	Current RGP Site proposed for expansion	Remove accumulated sediment and weed removal	Earthen ditch
Proposed one-	-time improvement projec	ts		
H-02 A 1840 S Centre City Pkwy Segment proposed for concrete-lining or hardening		concrete-lining or	Earthen ditch will be concrete-lined	Earthen ditch
E-47	Fleetwood Street	Replacement of an existing pipeline	Replacement of an existing pipeline, addition of 10 linear feet of riprap, and replacement of concrete apron	Earthen ditch
Mitigation Sit	e to Compensate for Impa	cts from Projects above		
Kit Carson Park Downstream		Full area will be enhanced	Enhancement would include removal of nonnative vegetation. Rehabilitation areas will require planting and seeding of native vegetation.	Earthen ditch





Figure 1 Regional Vicinity Escondido RGP 94 Channel Maintenance

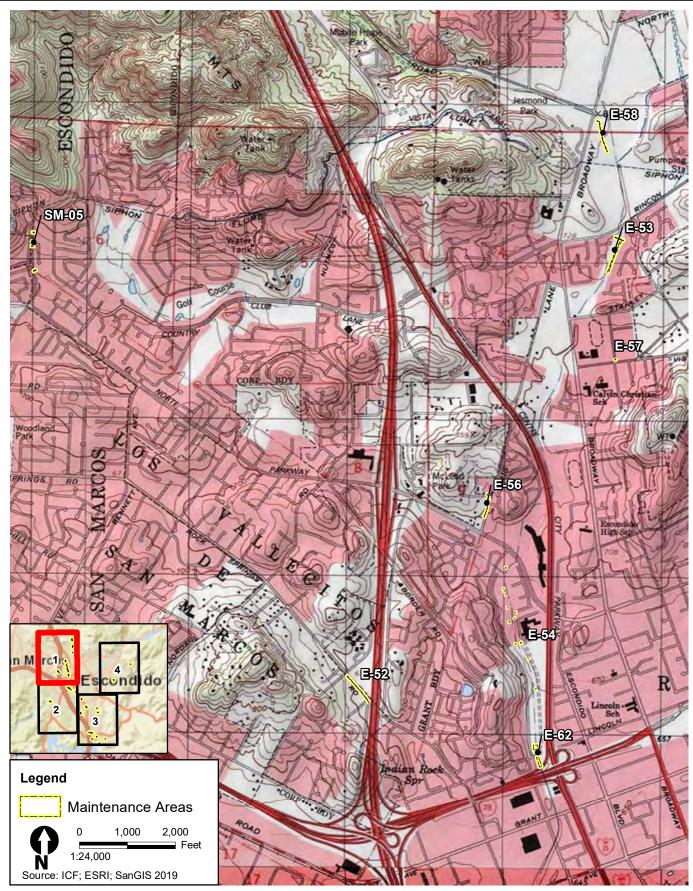


Figure 2, Sheet 1 Project Location Escondido RGP 94 Channel Maintenance

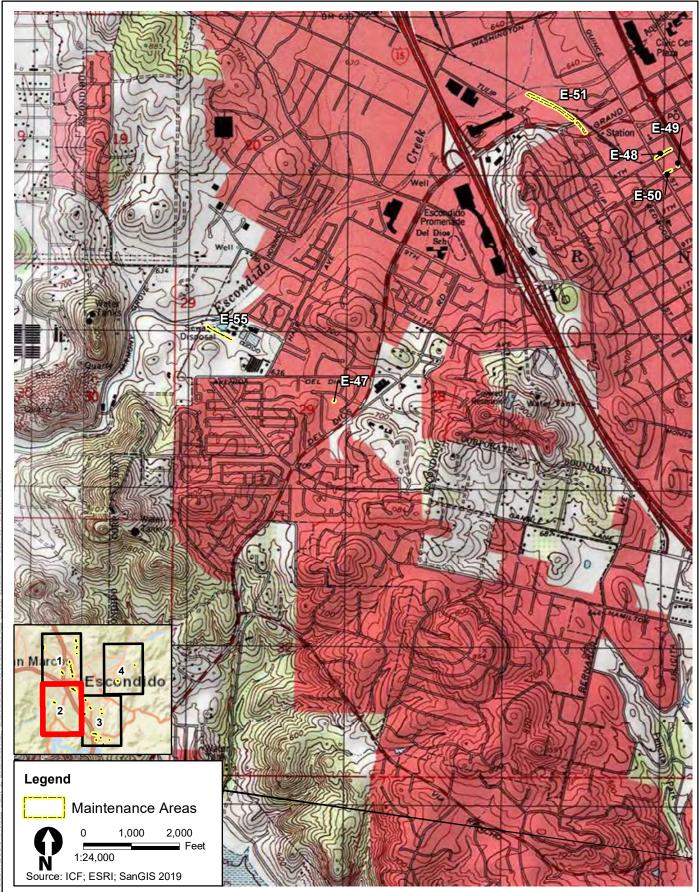




Figure 2, Sheet 2 Project Location Escondido RGP 94 Channel Maintenance

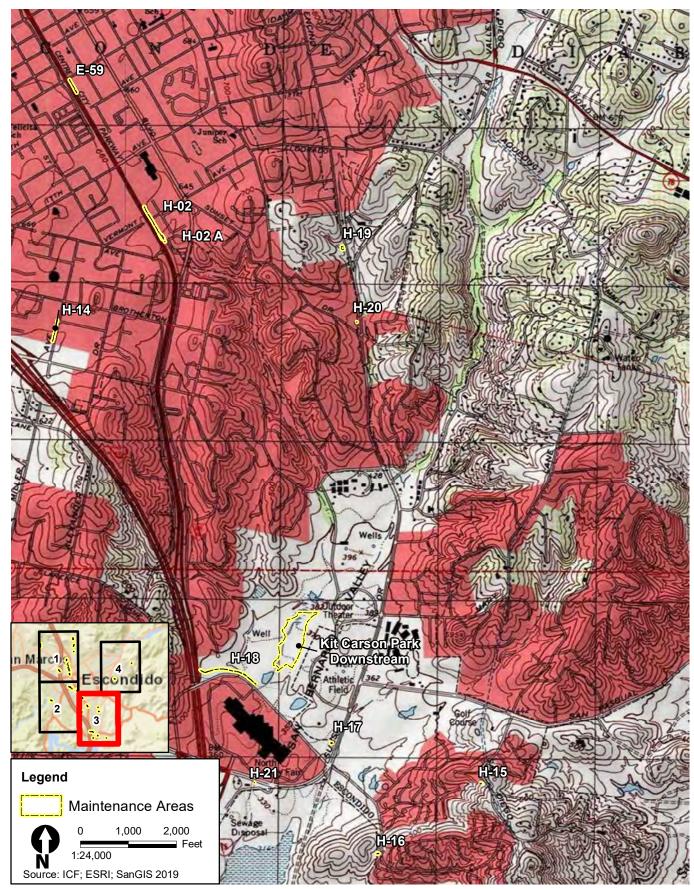




Figure 2, Sheet 3 Project Location Escondido RGP 94 Channel Maintenance

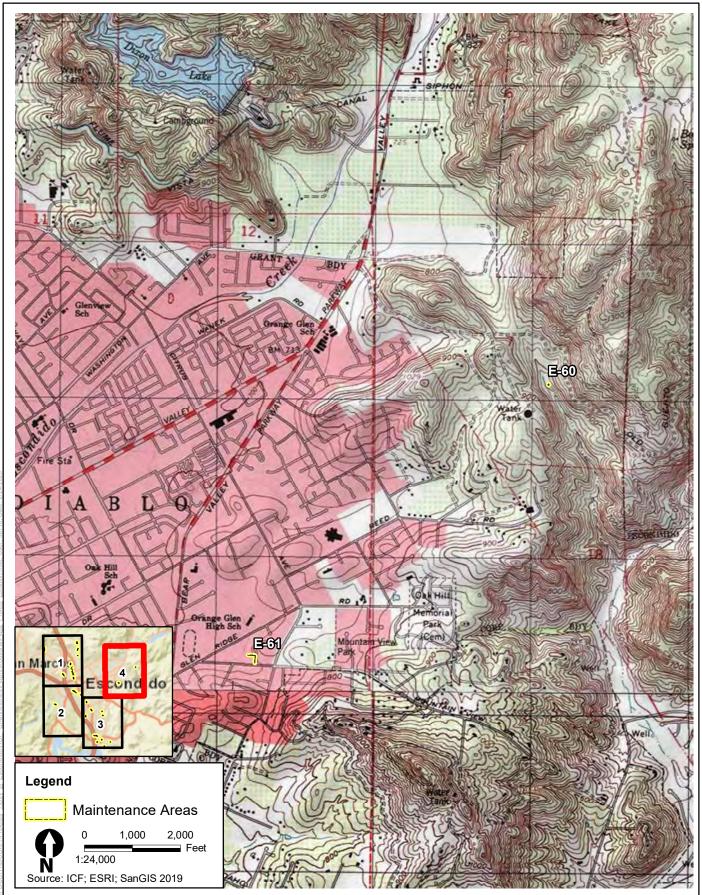


Figure 2, Sheet 4 Project Location Escondido RGP 94 Channel Maintenance

# **Project Setting**

## **Regulatory Setting**

#### **Federal Regulations**

#### Antiquities Act of 1906, Title 16 United States Code Sections 431–433

This Act establishes criminal penalties for unauthorized destruction or appropriation of "any historic or prehistoric ruin or monument, or any object of antiquity" on Federal land.

#### National Historic Preservation Act, Title 16 United States Code Section 470 et seq.

Among the provisions of Section 101 of the National Historic Preservation Act (NHPA), a State Historic Preservation Program was established in each state and a State Historic Preservation Officer (SHPO) was given the responsibility to consult with the appropriate federal agencies in accordance with the NHPA regarding:

- i. Federal undertakings that may affect historic properties; and
- ii. the content and sufficiency of any plans developed to protect, manage, or to reduce or mitigate harm to such properties;

Section 106 of the NHPA requires federal agencies to:

take into account the effect of their undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register. The head of any such Federal agency shall afford the Advisory Council on Historic Preservation...a reasonable opportunity to comment with regard to such undertaking.

# Archaeological Resources Protection Act of 1979, Title 16 United States Code Section 470aa–470mm

This Act provides protection of archaeological resources from vandalism and unauthorized collecting on Federal land.

#### Executive Order 11593 of May 13, 1971, 36 Federal Register 8921

This Executive Order focuses on the protection and enhancement of the cultural environment. It outlines responsibilities of the Federal agencies and Secretary of the Interior with regard to cultural resources.

# Archaeology and Historic Preservation: Secretary of Interior's Standards and Guidelines 48 FR 44716-42

This document establishes standards and guidelines regarding professional qualification requirements for archaeological and historic preservation professionals, technical report format and content, and standards for resource evaluation required by the State Historic Preservation Officer.

# Federal Land Policy Management Act of 1976 43 United States Code Section 1701 etseq.

The Federal Land Policy Management Act (FLPMA) declares that it is the policy of the United States that public lands be managed so as to protect historical and archaeological resources, and that the Secretary of Interior will establish rules and regulations regarding resource protection on public lands.

# Native American Graves Protection and Repatriation Act, Title 25 United States Code Sections 3001–3013

This law provides for ownership of Native American graves and grave goods on Federal lands.

#### American Indian Religious Freedom Act, Title 42 United States Code Section 1996

This measure establishes a national policy to protect the right of Native Americans and other indigenous groups to exercise their traditional religions. Federal agencies issuing permits are required to comply with this Act if Native Americans identify issues regarding their right to exercise traditional religious practices.

## **CEQA and Cultural Resources**

The California Environmental Quality Act (CEQA), which requires public agencies to evaluate the implications of their project(s) on the environment, includes significant historical resources as part of the environment. Public agencies must treat any cultural resource as significant, unless the preponderance of evidence demonstrates that it is not historically or culturally significant (California Code of Regulations [CCR] Title 14, Section 15064.5). A historical resource is considered significant if it meets the definition of a historical resource or a unique archaeological resource, as defined below.

#### **Historical Resources**

The term *historical resource* includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that is historically or archaeologically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California, per Public Resources Code (PRC) Section 5020.1(j). Historical resources may be designated as such through three different processes:

- 1. Official designation or recognition by a local government, pursuant to local ordinance or resolution per PRC Section 5020.1(k).
- 2. A local survey conducted. pursuant to PRC Section 5024.1(g).
- 3. Listing in, or eligibility for listing in, the National Register of Historic Places (NRHP), per PRC Section 5024.1(d)(1).

The process for identifying historical resources is typically accomplished by applying the criteria for listing in the California Register of Historical Resources (CRHR), per CCR Title 14 Section 4852, which states that a historical resource must be significant at the local, state, or national level under one or more of the following four criteria:

- 1. It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- 2. It is associated with the lives of persons important in our past.
- 3. It embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of a master; or possesses high artistic values.
- 4. It has yielded, or may be likely to yield, information important in prehistory or history.

To be considered a historical resource for the purpose of CEQA, the resource must also have integrity, which is the authenticity of a resource's physical identity, evidenced by the survival of characteristics that existed during the resource's period of significance. Resources, therefore, must retain enough of their historic character or appearance to be recognizable as historical resources and convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which the resource is eligible for listing in the CRHR, per CCR Title 14 Section 4852(c).

#### **Unique Archaeological Resources**

A *unique archaeological resource* is defined in PRC Section 21083.2 as an archaeological artifact, object, or site, about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is high probability that it meets the following criteria:

- Contains information needed to answer important scientific research questions and for which there is a demonstrable public interest.
- Has a special and particular quality, such as being the oldest of its type or the best available example of its type.
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

In most situations, resources that meet the definition of a unique archaeological resource also meet the definition of historical resource. As a result, it is current professional practice to evaluate cultural resources for significance according to their eligibility for listing in the CRHR. For the purposes of this CEQA cultural resources study, a resource is considered significant if it meets the CRHR eligibility (significance and integrity) criteria. Individual resource recommendations of eligibility are provided in this report.

Even without a formal determination of significance and nomination for listing in the CRHR, the lead agency can determine that a resource is potentially eligible for such listing to aid in determining whether a significant impact would occur. The fact that a resource is not listed in the CRHR, or has not been determined eligible for such listing, and not included in a local register of historic resources does not preclude an agency from determining that a resource may be a historical resource for the purposes of CEQA.

### **Thresholds of Significance**

According to CEQA, a project that causes a substantial adverse change in the significance of a historical resource or a unique archaeological resource has a significant effect on the environment

(CCR Title 14 § 15064.5; PRC Section 21083.2). CEQA defines *substantial adverse change* as follows (CCR Title 14 § 15064.5(b)):

Physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the historical resource would be materially impaired.

- Demolition or material alteration in an adverse manner those physical characteristics of a historical resource that convey its historical significance and justify its inclusion in, or eligibility for inclusion in, the CRHR.
- Demolition or material alteration in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources, pursuant to Section 5020.1(k) of the PRC, or its identification in a historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant.
- Demolition or material alteration in an adverse manner those physical characteristics of a historical resource that convey its historical significance and justify its eligibility for inclusion in the CRHR, as determined by the lead agency.

## **Local Regulations and Guidelines**

#### **City of Escondido**

The City of Escondido Municipal Code Article 40, Sections 33–790 through 33-807 are related to the preservation of cultural resources. The articles are designed to:

- Protect, enhance, and perpetuate historical resources, sites, and districts that represent or reflect elements of the City's cultural, social, economic, political, and architectural history for the public health, safety, and welfare of the people of the City.
- Safeguard the City's historical heritage as embodied and reflected in its historical resources, sites, and historical districts.
- Stabilize and improve property values.
- Foster civic pride in the character and accomplishments of the past.
- Strengthen the City's economy by protecting and enhancing the City's attractions to residents, tourists, and visitors and serve as a support and stimulus to business and industry.
- Enhance the visual character of the City by encouraging the preservation of unique and established architectural traditions.
- Promote the use of historical landmarks and districts for the education, pleasure, and welfare of the people of the City.
- Permit historical and archaeological sites to be identified, documented, and recorded by written and photographic means and allow an opportunity for preservation of historical and archaeological sites.

The City has established a nine-member Historic Preservation Commission to assist and advise the mayor and council in all matters relating to historic preservation in the city. The City also maintains a local register of historic resources. Additionally, the municipal code outlines the procedures and

criteria for designation or rescinding of local landmark and historic districts status, incentives for preserving historical resources, and permitting procedures. The *City of Escondido General Plan* (2012) does not refer to specific policies or procedures for cultural resources but does state the benefits of conservation of cultural resources.

### **Discovery of Human Remains**

With respect to the potential discovery of human remains, Sections 7050.5(b) and (c) of the California Health and Human Safety Code state the following:

- a. In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with § 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27491 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner, and cause of any death and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code. The coroner shall make his or her determination within 2 working days from the time the person responsible for the excavation, or his or her authorized representative, notifies the coroner of the discovery or recognition of the human remains.
- b. If the coroner determines that the remains are not subject to his or her authority and recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she will contact by telephone, within 24 hours, the Native American Heritage Commission (NAHC) (California Health and Human Safety Code Section 7050.5).

Of note to cultural resources is Subsection (c), which requires the coroner to contact the NAHC within 24 hours if discovered human remains are thought to be of Native American origin. After notification, NAHC will follow the procedures outlined in PRC Section 5097.98, which include notification of the most likely descendants, if possible, and the recommendations for treatment of the remains. Also, willful possession of Native American human remains or artifacts taken from a grave or cairn is a felony under state law (PRC § 5097.99).

# **Environmental Setting**

## **Natural Setting**

The Proposed project straddles the boundary between the San Diego Coastal Plain and the Peninsular Ranges. Temperatures in the region are mild, with highs averaging 77.5 degrees Fahrenheit in the summer and lows nearing 50 degrees Fahrenheit in the winter. Average rainfall is approximately 15 inches per year (U.S. Climate Data 2019).

The study area, which is in the Mediterranean climate zone, ranges in elevation from 600 feet above mean sea level (amsl), to 800 feet amsl. Numerous faults cross the area. The Proposed Project and associated components are situated along the boundary between the San Diego Coastal Plain and the

Peninsular Ranges. Along the coastal plain, the Mesozoic basement rocks of the Jurassic-Cretaceous Santiago Peak Volcanics and the Cretaceous Peninsular Ranges Batholith are non-conformably overlain by a layered sequence of sedimentary rocks of late Cretaceous Eocene, Oligocene, Miocene, Pliocene, and Pleistocene age (McComas et al. 2017). The dominant vegetation community within the study area is characterized by coastal sage scrub and chaparral (i.e., sumac, buckwheat, Cleveland sage, lavender, rosemary, thistle, mustard, and grasses). Large mammals in the vicinity include mountain lion, mule deer, coyote, and bobcat. Small animals include rabbits, squirrels, rats, and mice. Reptiles, such as snakes and lizards, and many different bird species are also present(ICF 2017).

# **Cultural Setting**

### **Prehistoric Context**

The study area is in the foothills of northern San Diego County . Numerous cultural chronologies have been developed for this region (Bettinger and Taylor 1974; Warren 1980; Warren and Crabtree 1986). The setting provided below summarizes some of these chronologies into an overview of regional cultural trends over time. This setting divides the pre-contact cultural sequence into three periods. These periods are analytical constructs and do not necessarily reflect Native American views.

#### **Paleo-Indian Period**

Scholarly theory suggests that the earliest human occupants of North America were highly mobile terrestrial hunters. Paleo-Indian cultures (e.g., Clovis, Folsom, Llano) dating to this period are often marked by archaeological assemblages of bone and stone technology. Over the last few decades, several North American archaeological sites and sets of human remains have been documented in various contexts that date to this Paleo-Indian Period (e.g., Erlandson et al. 2007). These discoveries have required researchers to reconsider the migratory and land use strategies of early people within the Americas. Within California, Paleo-Indian assemblages are characterized by a wide but sparse distribution of isolated tools and caches dated to between 12,000 and 10,000 years before present (BP) (Meltzer 2004; Dillon 2002:115; Byerly and Roberson 2015). The Clovis complex is the only cultural complex that has been confidently dated to this period. Clovis sites are identified by large fluted projectile points and are assumed to have been occupied by the relatively small populations of highly mobile groups that lived in small, temporary camps near permanent water sources. Although no Paleo-Indian sites have been documented in the APE and vicinity, the absence of sites does not negate the possible presence of human occupants during this period.

#### **Archaic Period**

Within the coastal plains of Southern California, a technological shift toward processing small, hard seeds from plants associated with scrub and shrub plant communities with ground stone tools, such as manos and metates, began to appear around 7500 BP. This period is referred to as the Millingstone Period for the abundant ground stone tools found at sites dating from this time until roughly 1500 BP. Groups continued to travel and follow game and plant resources as they became seasonally available (Moratto 1984).

#### Late Prehistoric Period

Starting at around 1500 BP, the archaeological record reflects the emergence of the cultural patterns attributed to Shoshonean peoples, who moved into southern California from the Great Basin and either assimilated with existing populations or displaced them. In the Late Prehistoric Period, the study area was occupied by the Gabrieliño (also referred to as Tongva or Kizh), who were probably well known by the Juaneno who lived in adjacent areas to the south and appear to have developed land use patterns around the intensive exploitation of a range of local resources and established semi-permanent camps and villages (Bean and Smith 1978a). Archaeological sites attributed to the Gabrieliño and Juaneno are characterized by a range of artifact types, including mortars and pestles, manos and metates, flaked stone tools, small projectile points, ceramics, basketry and woven textiles, and cremation sites.

## **Ethnographic Context**

The Proposed Project is located within the geographic boundaries of both the Luiseño and the Kumeyaay/Ipai. The Kumeyaay were divided linguistically by dialects spoken by people called Ipai in the north and Tipai in south, but culturally the two groups were largely the same. The Shoshonean inhabitants of northern San Diego County were called Luiseños by Franciscan friars, who named the San Luis Rey River and established the San Luis Rey Mission in the heart of Luiseño territory. Their territory encompassed an area from roughly Agua Hedionda on the coast, east to Lake Henshaw, north into Riverside County, and west through San Juan Capistrano to the coast (Bean and Shipek 1978).

The Luiseño shared boundaries with the Gabrieliño and Serrano to the west and northwest, the Cahuilla from the deserts to the east, the Cupeño to the southeast, and the Kumeyaay/Ipai to the south. All but the Kumeyaay/Ipai are linguistically similar to the Luiseño, belonging to the Takic subfamily of Uto-Aztecan (Bean and Shipek 1978). The Yuman Kumeyaay/Ipai have a different language and cultural background. but shared certain similarities in social structure, and some Ipai incorporated Luiseño religious practices.

The Luiseño were divided into several autonomous lineages or kin groups. The lineage represented the basic political unit among most southern California Indians. According to Bean and Shipek (1978), each Luiseño lineage possessed a permanent base camp, or village, in the San Luis Rey Valley and another in the mountain region for the exploitation of acorns, although this mobility pattern may apply only to the ethnohistoric present.

Acorns were the single most important food source used by the Luiseño. Their villages were usually located near water, which was necessary for leaching acorn meal. Seeds from grasses, manzanita, sage, sunflowers, lemonade berry, chia, and other plants were also used, along with various wild greens and fruits. Deer, small game, and birds were hunted, and fish and marine foods were eaten. Generally, women collected the plant resources, and the men hunted, but there was no rigid sexual division of labor (Bean and Shipek 1978).

Houses were arranged in the village without apparent pattern. The houses in primary villages were conical structures with excavated floors and central hearths and were covered with tule bundles. Domestic implements included wooden utensils, baskets, and ceramic cooking and storage vessels.

Hunting implements consisted of the bow and arrow, curved throwing sticks, nets, and snares. Shell and bone hooks, as well as nets, were used for fishing. Lithic resources of quartz and metavolcanics,

as well as some cherts, were available locally in some areas. Exotic materials, such as obsidian and steatite, were acquired through trade.

The Kumeyaay/Ipai who inhabited the northern part of San Diego County are the direct descendants of the early Yuman speaking hunter-gatherers of the Late Prehistoric Period. The Kumeyaay in general appear to have had considerable variability in in the level of social organization and settlement (Luomala 1978). The Kumeyaay were organized into patrilineal, patrilocal lineages that claimed prescribed territories, but did not own the resources in general (Shipek 1982).

The Kumeyaay occupied bipolar villages during the year and would occupy residential bases in the foothills/mountains during the summer and the lower elevations in the winter, with numerous campsites throughout, as they exploited seasonally available resources (Carrico 2008). Acorns were the most important staple of the diet, as indicated by the presence of numerous large habitation sites near the locations of abundant oaks and bedrock suitable for milling. Grass seeds, sages, berries, wild greens, and fruits were eaten. Houses, usually only built for the winter, were conical structures covered with tule bundles or willow and had excavated floors and central hearths (Spier 1923). Houses and campsites are believed to have been relatively dispersed, with no formal layout or discrete boundaries for structures or campsites. In addition to stone tools, the Kumeyaay utilized pottery and basketry. Religious activities were practiced with the assistance of shaman and a *cimul* (Shipek 1991).

Spanish explorers first encountered coastal Luiseño villages and Kumeyaay villages to the south in 1769, when they established the Mission San Diego de Alcalá near the mouth of the San Diego River and later established Mission San Luis Rey de Francia in 1798, 4 miles inland from the mouth of the river. The missions "recruited" the Luiseño and Kumeyaay to use as laborers and convert them to Catholicism. The inland Luiseño and Ipai were not heavily affected by Spanish influence until 1816, when outposts of the missions were established 20 miles farther inland, at Pala and Santa Ysabel (Sparkman 1908).

At the time of contact, Luiseño population estimates ranged from 5,000 to as many as 10,000 individuals. Missionization, along with the introduction of European diseases, greatly reduced the Luiseño population. Most villagers, however, continued to maintain many of their aboriginal customs and simply adopted the agricultural and animal husbandry practices learned from the Spaniards. The Kumeyaay were generally resistant to Spanish attempts to coerce them into the Euro-American culture, but the change in location of the mission enabled the priests to gain more converts. As the Spanish gained influence many of the Kumeyaay became resentful, which culminated in the sacking and burning of Mission San Diego de Alcalá in 1775 (Carrico 2008).

By the early 1820s, California came under Mexico's rule, and, in 1834, the missions were secularized, resulting in a political imbalance that caused Native American uprisings against the Mexican rancheros. Many Native Americans left the missions and ranchos and returned to their original village settlements.

When California became a sovereign state in 1849, local Native Americans were recruited more heavily as laborers and experienced even harsher treatment. Conflicts between Native Americans and encroaching Anglos finally led to the establishment of reservations for some Luiseño and Kumeyaay populations. The reservation system interrupted Native American social organization and settlement patterns, yet many aspects of the original cultures persist today. Certain rituals and religious practices are maintained, and traditional games, songs, and dances continue, as does the use of foods such as acorns, yucca, and wild game.

## **Historic Context**

#### **Spanish and Mexican Periods**

Over the course of approximately 5 decades, beginning in 1769, Spanish Franciscan missionaries, military officials and soldiers, and civilian colonists created a chain of 21 missions, four presidios, and three pueblos across coastal Alta California. Native American control of the southern California region ended, in the political view of western nations, with Spanish colonization of the area. De facto Native American control of the majority of the population of California did not end until several decades later.

These developments occurred as the Spanish attempted to solidify their claims to California through colonization by Euro-Americans and subjugation of the Native American inhabitants to their culture and control. None of the Spanish missions or mission-associated institutions (i.e., *estancias* [ranch outposts] or *asistencias* [small-scale missions lacking a resident priest]) that were found farther inland were established in the vicinity of the study area during the Spanish period. The closest missions were those at San Diego, established in 1769, and San Luis Rey, established in 1798, which are approximately 30 and 15 miles away from the study area, respectively (Englehardt 1921).

By 1810, many of Spain's New World colonies were openly dissatisfied with colonial rule, and independence movements spread throughout the empire. By 1821, Mexico had achieved its independence, but continued many Spanish traditions. The Mexican government began distributing large land grants as rewards to those who had supported independence to help settle the sparsely populated region of Alta California. Unfortunately, little changed for the Native American population during this time. The project area was part the Rincon del Diablo land grant (12, 653 acres) on the east that was owned by Juan Bautista Alvarado. The Alvarados were descended from Juan Bautista Alvarado, Sr., a soldier with the Portola expedition of 1769 that established the missions in Alta California. Rincon del Diablo was granted in 1843 by Governor Manuel Micheltorena. Alvarado built an adobe and raised cattle on the property. Euro-American control of California was firmly established by the end of the Garra uprising in the early 1850s (Phillips 1975).

#### **American Period**

California became part of the United States in 1848 as part of the conditions of the Treaty of Guadalupe Hidalgo, which ended the war between the United States and Mexico that began in 1846 and saw battles in Los Angeles during 1846 and 1847. Two years later, California became the Union's 31<sup>st</sup> state. Property ownership among Californios granted lands under Mexican rule became a matter of considerable legal wrangling. After California became a state, it was subsequently divided into 27 counties, including San Diego County. After the war with Mexico ended in 1848, the study area and vicinity remained sparsely populated. Soon after American control was established (1848–present), gold was discovered in California. The tremendous influx of American and Europeans that resulted quickly drowned out much of the Spanish and Mexican cultural influences and eliminated the last vestiges of de facto Native American control. Because of land claim disputes, few Mexican ranchos remained intact. In addition, the homestead system increased American settlement beyond the coastal plain.

Both Juan Bautista Alvarado and his wife had passed away by the early 1850s, and their remaining children sold their interests first to Judge Oliver S. Witherby between 1855 and 1866 and later to the Wolfskill Brothers. The land changed hands over the years until finally a group of land speculators

from Stockton purchased it in 1883 and began viticultural pursuits in the valley. Churches, schools, and the Escondido Hotel would be constructed in a short time. In 1886, a 12,000-acre tract was purchased by a group of investors that formed the Escondido Land and Town Company, which platted the city of Escondido and lobbied for construction of a railroad connection to the coast. The railroad was completed in late 1887, and the first freight was shipped from the Santa Fe depot at the west end of Grand Avenue in early 1888. During this time, most of Escondido was agricultural land and would not be developed until well into the twentieth century. Land promotions during the land boom in San Diego County in the late 1880s brought new settlers to the area. By the 1890s the boom had failed, and although growth had slowed considerably during the 1890s, settlers continued to arrive in the back country, establishing small farms and ranches throughout the area. This migration took a sharp decline with the onset of the Depression during the 1930s, as many of the rural farmers abandoned their farms and moved to urban areas. The number of people living on farms fell 63 percent during the 1930s, while San Diego County's overall population increased by 38 percent (Van Wormer and Walter 2011). Nevertheless, farming and ranching continued to be the major focus of Escondido's economy until the 1960s.

#### **History of Water Supply Development**

The following is taken directly from Jow and Dolan's 2012 Archaeological Survey Report for the Escondido Regional General Permit Project, City of Escondido, San Diego County, California. The Escondido Irrigation District was formed in the late nineteenth century to supplement local agricultural water supplies. The Escondido Canal was constructed to bring water from the San Luis Rey River basin, and the original Lake Wohlford dam was constructed to store this supply. In the early twentieth century, the Escondido Mutual Water Company (Escondido Mutual) was formed to improve these existing facilities and, by 1914, the City had constructed several public wells (three near Beech and Valley Boulevard and three near Rose and Washington), a reservoir on Park Hill, and a 12-mile water distribution system to accommodate the growing population. In 1923, the San Diego County Water Company constructed Lake Henshaw by damming the San Luis Rey River. Rather than build a completely independent system, the company jointly funded certain improvements with Escondido Mutual to transmit the water from Lake Henshaw to Lake Wohlford, and then to the service area of what is now Vista. This resulted in a dual-agency water supply arrangement that persists to the present day. In 1945, the present Vista Irrigation District (VID) acquired the interest of the older San Diego County Water Company. The jointly owned supply was inadequate by the 1950s, and a well field was constructed to deliver groundwater into Lake Henshaw.

Meanwhile, in the 1940s, abundant supplies of water became available with the construction of the Colorado River Aqueduct, and the San Diego County Water Authority (SDCWA) began delivering the imported supplies to San Diego County. Only public agencies were permitted access to this water; therefore, the City of Escondido could obtain this water directly, but the Escondido Mutual Company could not. As a result, in 1954, the Rincon del Diablo Municipal Water District was formed and began to supply water within its area, particularly the portion of that area near the new aqueduct.

In 1970, the City of Escondido acquired the Escondido Mutual Water Company. The City and Escondido Mutual systems were joined, and the new City system shares with VID the local water supply delivery system and obtains imported water, as well. Rincon provides water derived solely from the SDCWA aqueduct within its historic service area. Under the present arrangement, the City and VID have jointly undertaken major improvements to the water supply system, including the construction of Dixon Lake and a major treatment plant. Since 1969, however, ownership of water

derived from the San Luis Rey River has been disputed by members of the Rincon and La Jolla tribes. [Update: A settlement agreement was completed in 2015].

# Methods

The effort to identify cultural resources in the study area included records searches of previous cultural resources studies and recorded resources and pedestrian surveys. Additional background research and a literature review were also performed to characterize the physical environment, prehistory, ethnography, and history of the study area vicinity. The results of the background research and literature review are provided in the Results section, below.

Background research and field studies were conducted in compliance with CEQA, as amended (PRC § 21000 et seq.), pursuant to the Guidelines for Implementation of the California Environmental Quality Act (CCR Title 14 § 15000 et seq.) and Section 106 of the NHPA.

### **Records Search**

A records search was conducted at the South Coastal Information Center (SCIC) in May and June of 2019, using a 0.5-mile buffer around each of the facility locations. The records search indicates that 92 cultural resources are located within a 0.5-mile radius of the study area, eight of which intersect with project facilities and the 50-foot survey buffer. The eight resources include a prehistoric lithic scatter (P-37-000572), a prehistoric habitation site (P-37-008280), prehistoric bedrock milling sites and associated artifacts (P-37-006726, P-74-6727, and P-37-012601), a prehistoric isolated mano and flake (P-37-015577), a historic residence (P-37-017871), and a historic flume (P-37-030889). The results of this records search are provided below along with in depth descriptions of the resources that intersect with the facilities and 50-buffer (see Appendix A, *Record Search Results*).

#### Table 2. Records Search Result for the APE and a One-Half Mile Buffer

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-000152	CA-SDI- 000152	Treganza, n.d.; Chase and Sutton, 1978	Prehistoric campsite including midden and milling feature.	Site	Outside	E-54
P-37-000154	CA-SDI- 000154	Treganza, n.d.	Prehistoric site (specifics not provided)	Site	Outside	E-47
P-37-000564	CA-SDI- 000564	True, n.d.	Prehistoric milling feature	Site	Outside	H-16
P-37-000565	CA-SDI- 000565	True, n.d.	Prehistoric lithic scatter	Site	Outside	H-16
P-37-000566	CA-SDI- 000566	True, n.d.	Prehistoric lithic scatter, midden soil, and boulder outcrop	Site	Outside	H-16
P-37-000572	CA-SDI- 000572	True, n.d.	Prehistoric lithic scatter	Site	Intersects	H-16 Not relocated very disturbed
P-37-000573	CA-SDI- 000573	True, n.d.	Prehistoric lithic scatter	Site	Outside	H-16
P-37-001036	CA-SDI- 001036	True, 1962	Prehistoric site including a bedrock milling feature and a lithic scatter	Site	Outside	E-54
P-37-001046	CA-SDI- 001046	True, 1962; Buysse, 1994	Prehistoric milling feature	Site	Outside	E-60
P-37-001047	CA-SDI- 001047	True, 1962; Buysse, 1994	Prehistoric lithic scatter	Site	Outside	E-60
P-37-001049	CA-SDI- 001049	True, 1962; Wade et al, 1985	Prehistoric milling features and subsurface artifacts.	Site	Outside	E-57
P-37-001050	CA-SDI- 001050	True, 1962	Prehistoric lithic scatter	Site	Outside	E-53
P-37-001057	CA-SDI- 001057	True, 1962	Prehistoric village site	Site	Outside	E-53
P-37-004943	CA-SDI- 004943	Eckhardt, 1977	Prehistoric milling feature	Site	Outside	E-58

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-004944	CA-SDI- 004944	Eckhardt, 1977	Prehistoric artifact scatter and midden	Site	Outside	E-58
P-37-004960	CA-SDI- 004960	Carrico, 1978	Prehistoric lithic scatter	Site	Outside	H-16
P-37-004961	CA-SDI- 004961	Carrico, 1978	Prehistoric milling complex over two loci	Site	Outside	H-16
P-37-004962	CA-SDI- 004962	Carrico, 1978	Prehistoric milling feature	Site	Outside	H-16
P-37-004963	CA-SDI- 004963	Smith and Pierson, 1981	Prehistoric lithic scatter	Site	Outside	H-16
P-37-004967	CA-SDI- 004967	Carrico, 1978	Prehistoric rock enclosures on crest of Mule Hill	Site	Outside	H-16
P-37-005088	CA-SDI- 005088	Thesken, 1983; Chase and Collins, 1987	Prehistoric village site including milling features, midden, and artifacts over 6 loci.	Site	Outside	H-18
P-37-005088	CA-SDI- 005088	Thesken, 1983; Chace and Collins, 1987	Prehistoric village site including milling features, midden, and artifacts over 6 loci.	Site	Outside	H-18
P-37-005210	CA-SDI- 005210	Chace, 1977; Chase, 1979; James et al, 1991	Prehistoric habitation site over two loci. Locus B includes a historic component.	Site	Outside	E-52
P-37-005355	CA-SDI- 005355	VanCamp, 1977	Prehistoric lithic scatter	Site	Outside	SM-05
P-37-005367	CA-SDI- 005367	Norwood, 1977	Prehistoric shell fragment	Isolate	Outside	SM-05
P-37-005368	CA-SDI- 005368	Norwood, 1977	Historic bridge	Built Environment	Outside	SM-05
P-37-006726	CA-SDI- 006726	Bickford, 1978	Prehistoric milling complex over two loci	Site	Intersects	E-54

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-006727	CA-SDI- 006727	Bickford, 1978	Prehistoric milling complex and artifact scatter over three loci	Site	Intersects	E-54
P-37-006728	CA-SDI- 006728	Bickford, 1978	Prehistoric milling feature	Site	Outside	E-54
P-37-006729	CA-SDI- 006729	Bickford, 1978	Prehistoric milling feature and lithic scatter	Site	Outside	E-54
P-37-007785	CA-SDI- 007785	Laylander, 1980	Prehistoric milling complex	Site	Outside	E-54
P-37-007871	CA-SDI- 007871	Underwood and Shackley, 1980	Prehistoric milling feature, midden, and historic component	Site	Outside	E-55
P-37-008280	CA-SDI- 008280	Knutson,1976; Linehan and Strudwick, 1991; James et al, 1992; Bowden-Renna and York, 1996; Morgan and Clowery 2010; Stropes, 2016	Prehistoric component of village complex. Historic structural remains are also present	Site	Intersects	E-55 Portion with APE developed and paved over
P-37-008305	CA-SDI- 008305	Thelen, 1977; Chace, 1980	Prehistoric lithic artifacts scatter- collected	Site	Outside	E-47
P-37-008698	CA-SDI- 008698	Gardner, 1981; Apple, 1982	Prehistoric milling complex and subsurface artifacts over 3 loci	Site	Outside	H-18
P-37-008699	CA-SDI- 008699	Gardner, 1981; Apple, 1982	Prehistoric milling complex	Site	Outside	H-18
P-37-008700	CA-SDI- 008700	Gardner, 1981; Apple, 1982	Prehistoric milling complex and subsurface artifacts	Site	Outside	H-18
P-37-008749	CA-SDI- 008749		Tribal Land- Contact SCIC	Site	Outside	H-16
P-37-008776	CA-SDI- 008776	Smith and Pierson, 1981	Prehistoric milling features and subsurface artifacts	Site	Outside	H-16

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-009828	CA-SDI- 009828	Chase, 1983	Prehistoric milling features	Site	Outside	E-54
P-37-009829	CA-SDI- 009829	Chase, 1983	Prehistoric milling feature	Site	Outside	E-54
P-37-009830	CA-SDI- 009830	Chase, 1983	Prehistoric milling feature	Site	Outside	E-54
P-37-010882	CA-SDI- 010882	Hector and Haynal, 1987	Prehistoric milling features	Site	Outside	H-18
P-37-011466	CA-SDI- 011466	Serr and Shackley, 1989; Pigniolo, 1999; Manchen and DeCarlo, 2015	Prehistoric milling features and one hammerstone, and a historic road alignment and painted sign.	Site	Outside	H-16
P-37-012209	CA-SDI- 012209	Lenker, 1978; Linehan and Strudwick, 1991; Underwod et al., 2001; Morgan and Clowery, 2010; Stropes, 2016; Accardy, 2018	Prehistoric component of village complex including extensive milling, subsurface artifacts, and a pictograph. Historic road, reservoir, machinery, and structures also present.	Site	Outside	E-55
P-37-012459	CA-SDI- 012459	Linehan and Strudwick, 1991	Prehistoric milling feature and a mano	Site	Outside	E-47
P-37-012460	CA-SDI- 012460	Linehan and Strudwick, 1991	Prehistoric milling feature	Site	Outside	E-55
P-37-012461	CA-SDI- 012461	Linehan and Strudwick, 1991	Prehistoric milling feature	Site	Outside	E-55
P-37-012546	CA-SDI- 012546	Glenn et al, 1991	Prehistoric milling features and an artifact scatter. Historic mortared rock features and historic artifact scatter	Site	Outside	E-58
P-37-012597	CA-SDI- 012597	Bibb, 1992	Historic site of Rancho San Bernardo adobe ranch house, historic artifact scatter	Site	Outside	H-18

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-012597	CA-SDI- 012597	Bibb, 1992	Historic site of Rancho San Bernardo adobe ranch house, historic artifact scatter	Site	Outside	H-27
P-37-012601	CA-SDI- 012601	Smith, 1992	Prehistoric milling features and subsurface artifacts	Site	Intersects	E-55
P-37-012649	CA-SDI- 012649	Unknown, n.d.; Lorrey, 1992; Pigniolo, 1999	Site of historic battle of Mule Hill, 1846. Many historical artifacts recovered. Prehistoric component incudes 1 flake and a possible pictograph.	Site	Outside	H-16
P-37-012650	CA-SDI- 012650	Lorrey, 1992; Lorrey, 1993	Historic Zena Sikes adobe building.	Site	Outside	H-21
P-37-012919	CA-SDI- 012919	Robbins-Wade et al., 1992; Ashkar and Hilton, 2000; Piek and DeCarlo, 2015	Historic domestic refuse deposit	Site		H-19
P-37-012920	CA-SDI- 012920	Robbins-Wade et al., 1992; Piek and DeCarlo, 2015	Historic domestic refuse deposit	Site		H-19
P-37-013477	CA-SDI- 013477	Buysse, 1994	Prehistoric milling feature	Site	Outside	E-60
P-37-013482	CA-SDI- 013482		Prehistoric milling feature	Site	Outside	E-60
P-37-015577		James et al., 1996	Prehistoric isolated mano fragment and flake	Isolate	Intersects	E-51
P-37-015892		Case, 1997	Prehistoric isolated core	Isolate	Outside	H-16
P-37-015893		Case, 1997	Prehistoric isolated portable stone mortar	Isolate	Outside	H-16
P-37-017871		Marsh, 1983	Private residence, built 1938	Built Environment	Intersects	E-50 adjacent
P-37-018732		Leary, 1983	Private residence, built 1938	Built Environment	Outside	E-61
P-37-018745		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-018899		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019064		Pigniolo and Dietler, 2000	Historic Escondido Gravity Float Line, Built 1932	Built Environment	Outside	E-61
P-37-019112	CA-SDI- 015843	James and Briggs, 2000	Prehistoric artifact scatter	Site	Outside	H-29
P-37-019202	CA-SDI- 015882	Pigniolo, 1999	Prehistoric milling features and a surface artifact scatter	Site	Outside	H-24
P-37-019317		Leary, 1983	Private residence, built ~1920	Built Environment	Outside	E-54
P-37-019437		Leary, 1983	Private residence, built ~1890	Built Environment	Outside	E-55
P-37-019518		Leary, 1983	Private residence, built 1920s	Built Environment	Outside	E-54
P-37-019519		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019520		Leary, 1983	Private residence, built ~1890	Built Environment	Outside	E-54
P-37-019622		Leary, 1983	Private residence, built 1930s	Built Environment	Outside	E-54
P-37-019623		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019624		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019625		Leary, 1983	Private residence, built 1930s	Built Environment	Outside	E-54
P-37-023913		Unknown, n.d.	Historic Zena Sikes Adobe San Diego Historic Landmark Register form	Built Environment	Outside	H-21
P-37-024169		McLean and Michalsky, 2001	Escondido Mutual Water Company Collection Point	Site	Outside	Multiple
P-37-024458		Underwood and Fitzsimmons, 2001	Historic isolated farming equipment	Isolate	Outside	E-55
P-37-028555	CA-SDI- 018585	Unknown, 1970	Battle of Mule Hill San Diego Historic Landmark (#452) Register form	Site	Outside	H-21
P-37-029808		Solis, 2008	Prehistoric isolated mano	Isolate	Outside	H-21
P-37-030889		Van Wormer, 2009; Piek and DeCarlo, 2015	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Built Environment	Intersects	E-58

Cultural Resources Inventory

D :	m· · 1			Type: Site/Built	Intersects survey	147 I I
Primary	Trinomial	Recorders, date	Description	Environment/Isolate	buffer or outside	Work Location
P-37-030889		Van Wormer, 2009; Piek and DeCarlo, 2015	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Built Environment	Outside	SM-05
P-37-030889		Van Wormer, 2009; Piek and DeCarlo, 2015	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Site	Intersects	E-58
P-37-032539	CA-SDI- 020662	Rodgers, n.d., Gallegos and Trampier, 1997 and 2012	Prehistoric milling features and a surface artifact scatter	Site	Outside	E-47
P-37-033269	CA-SDI- 020941	Lenker, 1978; Stropes; 2013	Prehistoric subsurface surface artifacts	Site	Outside	E-55
P-37-035581		Stringer-Bowsher, 2012	Historic residential complex	Built Environment	Outside	H-19
P-37-035623	CA-SDI- 021808	Daniels, 2016	Prehistoric milling features	Site	Outside	H-19
P-37-035866	CA-SDI- 021873	Smolik et al, 2015	Adobe brick manufacturing site including an adobe brick making machine in operation from 1949-1971. 15 features over 4 loci	Site	Outside	H-17
P-37-036603		Davidson, 2017	Quince Street Warehouse Complex	Built Environment	Outside	E-51
P-37-037734	CA-SDI- 022477	Piek and DeCarlo, 2015	Historic structure foundation	Site	Outside	H-19

Note: Gray shading denotes resources that intersect with the cultural resources survey area.

Note: Gray shading denotes resources that intersect with the cultural resources survey area.

#### P-37-000572/CA-SDI-572

This prehistoric resource is lithic scatter of flakes, manos, and a hammerstone, first recorded by Delbert True in the early 1950s, before the area was developed. No updates to the original record have been submitted. The site has not been evaluated for its potential eligibility to the CRHR or NRHP.

#### P-37-006726/CA-SDI-6726

This prehistoric archaeological site was recorded in 1978 as one of series of bedrock milling locations in the area. The site was reported of consisting of two bedrock milling features with a total of seven milling elements, including six mortars and one slick. No artifacts were recorded at the time. The site has not been evaluated for eligibility to the CRHR or NRHP.

#### P-37-006727/CA-SDI-6727

This prehistoric archaeological site was recorded in 1978 as one of series of bedrock milling locations in the area. The site was reported of consisting of three bedrock milling features with a total of 11 milling elements, including one mortar and 10 slicks. A stone pestle was observed on the ground surface. When the site was recorded, it was noted that it was in eminent danger of being destroyed by development of a shopping center. The site has not been evaluated for eligibility to the CRHR or NRHP.

#### P-37-008280/CA-SDI-8280

This resource is a prehistoric habitation site and probably part of a larger village complex, but also includes a historical component. Site constituents include bedrock milling features, lithic waste, groundstone, pictographs and historical foundation, and building remains. The site is very large and related to site CA-SDI-12,209, which was recorded just to the north. The site has been affected by development of a wastewater treatment facility and surrounding industrial/business parks, but much of the site remains undeveloped, although not undisturbed. The portion of the site recorded within the current study area is within an area that has been developed and is mostly paved over. The site was previously evaluated through test excavation and found to be eligible for the CRHR and NRHP, although it was noted that not all portions of the site contribute to its significance.

#### P-37-012601/CA-SDI-12,601

This archaeological site is a prehistoric bedrock milling site with associated sparse lithic artifacts. The site was identified as containing three bedrock milling features with seven slicks. In 1992, the site was tested with the excavation of eight shovel test probes and a single 1 x 1-meter test unit. A total of 10 flakes were recovered during significance testing of the site. The site has previously been determined to be ineligible for NRHP through the Section 106 process, but was not evaluated for the CRHR.

#### P-37-015577

P-37-015577 is a prehistoric isolate resource consisting of single, secondary porphyritic metavolcanic flake and a granitic mano fragment. The artifacts were in 1996 within a disturbed

setting within the Atchison, Topeka, and Santa Fe Railway right-of-way. As an isolate, the resource is not eligible for the CRHR or NRHP.

#### P-37-017871

This built environment cultural resource is a private residence built in 1938. The house was recorded in 1983, and the builder and architect of the structure are unknown. The structure appears to have been demolished since the time it was recorded.

#### P-37-030889

This built environment cultural resource is the Vista Irrigation flume and siphons constructed in the 1920s. The water system was built using a combination of gunite bench flumes along various ridges and connecting steel and concrete siphons to convey water across canyons and valleys between the ridges where the flumes are located. The system was originally a little over 12 miles long and carried water from Vista/San Marcos to Escondido. The resource was previously evaluated in 2009 and considered to be eligible for both the CRHR and the NRHP, but SHPO concurrence for this determination is unknown.

## **Native American Contact and Outreach**

ICF submitted a request to the NAHC for information in the Sacred Lands File database on May 21, 2019, in order to acquire more information about potential cultural resources within the APE and vicinity. A response from the NAHC was received on June 5, 2019. The NAHC indicated that no traditional cultural places are located within the APE that may be affected by the proposed project. Additionally, the NAHC provided a list of 31 Native American tribes and individuals to contact about the proposed project and requested follow-up phone calls. Letters were sent to the Native American tribes and individuals on October 28, 2019. Responses were received from the Viejas Band of Kumeyaay Indians, who recommended contacting the San Pasqual Band of Mission Indians, and from the San Pasqual Band of Mission Indians, who requested additional maps of the earthen facilities and monitoring by Native Americans for work in the vicinity of recorded archaeological sites. A follow up letter was sent to the San Pasqual Tribe with updated project maps and earthen berm locations on January 8, 2020. The Rincon Band of Luiseno Indians considers the project to be within the Tribe's specific area of historic interest. The Pala Band of Mission Indians considers the Project outside their Traditional Use Area and requested Native American monitors be present for survey and ground-disturbing activities. All the tribes requested to be kept in the information loop in case of project changes and have copies of reports sent to them. Copies of Native American contact correspondence can be found in Appendix C, Native American Consultation.

The City of Escondido received responses to consult under Assembly Bill 52 (Chapter 532, Statutes 2014) (AB 52) from the Rincon Band of Luiseno Indians and the San Luis Rey Band of Mission Indians. The Rincon Band requested tribal monitoring at a number of facilities at a meeting in June of 2020. The San Luis Rey Band also requested the presence of tribal monitors for ground disturbing activities at a number of facilities via email in September 2020.

# Results

## **Pedestrian Survey**

ICF archaeologists conducted a pedestrian survey of the 361-acre survey area in October and November 2019. The survey area consisted of each facility location and a 50-buffer. The archaeologists examined the ground surface within each survey area for the presence of prehistoric artifacts and features, prehistoric milling surfaces on exposed bedrock, and historic artifacts and features. Visibility ranged from good in road shoulders to extremely poor in areas with dense vegetation. Vegetation within the APE consisted of agricultural land, native and non-native grasses, disturbed native chaparral, and landscaped residential yards and roadsides. For this survey, visibility was characterized as good to excellent if 75 percent or more of the ground was visible, fair to good if 25–75 percent was visible, and poor to fair if 5–25 percent of the ground was visible. The archaeologists took notes and photographs of the project survey area and all identified cultural resources (See Photos 1 and 2, to follow).

During the field surveys, none of the eight previously recorded archaeological resources were relocated. One new prehistoric bedrock milling site, ICF-ESC94-P-001, was identified. For the most part, this appears to be due to environmental conditions that have occurred since the resources were originally recorded. Some of the resources appear to have been buried or eroded away, destroyed by later development, or were inaccessible because of dense vegetation. Discrepancies may also be due to sites being recorded prior to the common use of Geographic Information Systems (GIS) in site recording, resulting in the original recorded locations being off or erroneously mapped (Table 3, to follow) (Figure 3, *Cultural Survey Results*, in Appendix B [Confidential]).

Detailed Project Report forms were updated for sites identified in the APE and are in attached Appendix D.



Photo 1. E-54 Reidy Creek and Centre City Parkway Overview



Photo 2. Overview at RGP 94 Kit Carson Downstream Mitigation Area

#### Table 3. Cultural Resources Identified within the APE and Survey Results

Site/Isolate Designation	Project Component	Description	NRHP/CRHR Status	Relocated/Observations
P-37-000572/CA-SDI-572	Kit Carson Mitigation Area	Prehistoric lithic scatter	Unevaluated	Not relocated; very disturbed and appears destroyed
P-37-004963/CA-SDI-4963	H-16	Prehistoric lithic scatter	Unevaluated	Not relocated; possibly mismapped and disturbed
P-37-006726/CA-SDI-6726	E-54	Bedrock milling site	Unevaluated	Not relocated; boulder outcrops observed but have been mostly buried by soil
P-37-006727/CA-SDI-6727	E-54	Bedrock milling site	Unevaluated	Not relocated; boulder outcrops and placed boulders observed, but have been mostly buried by soil
P-37-008280/CA-SDI-8280	E-55	Large prehistoric habitation site with historical remains	Eligible, but portion within APE destroyed through previous development	Not relocated; portion within APE is developed and partially paved over
P-37-012601/CA-SDI-12601	E-55	Prehistoric milling features and subsurface artifacts	Not eligible	Not relocated in APE
P-37-015577	E-51	Prehistoric isolate	Not eligible	Not relocated
P-37-017871	E-50	Historical residence	Not eligible	Appears demolished
P-37-30889	E-58	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Recommended eligible	Not relocated due to being subterranean in this area
ICF-ESC94-P-001	None, possible mitigation area since removed from current project.	Bedrock milling site not previously recorded.	Unevaluated	New site identified during survey; more milling may be present; additional bedrock was buried or covered in dense vegetation

# Conclusions

None of the previously recorded cultural resources were identified, and one previously unidentified cultural resource was located within the APE. A variety of reasons is possible for this result. Many of the locations were overgrown with vegetation that hindered visibility and access to areas where sites were previously recorded. In some cases, bedrock was identified where bedrock milling was recorded; however, the bedrock is either buried or eroded, and milling surfaces were not relocated. Additionally, some areas have been developed since the resources were originally recorded, and the sites may have been destroyed or paved and developed over. Many of the site records are relatively old, and the location information on some of the forms may be incorrect and misplotted.

# **Recommendations**

ICF conducted a pedestrian survey to identify cultural resources in the APE. The field efforts identified one new archaeological site, but no evidence of the previously recorded cultural resources within the APE. However, several of the facilities could not be adequately surveyed due to poor visibility. It is recommended that the initial maintenance activities at these facilities (Table 4, to follow) are monitored by a qualified archaeologist. Based upon the results of initial ground disturbance, the monitor would be able to determine if the potential for subsurface disturbance warrants further monitoring.

	Rationale for Archaeological Monitoring
E-54	Previously recorded resource nearby.
E-55	Previously recorded resource nearby.
E-58	Dense vegetation. Previously recorded resource nearby.
E-60	Dense vegetation. Previously recorded resources nearby.
H-19	Lack of access.
H-16	Dense vegetation precluded relocating previously recorded site in APE.
SM-05	Monitor due to limited visibility and recorded resources nearby.

Due to concerns expressed by the Native American community, additional consultation(s) is recommended prior to implementation of routine maintenance activities slated for the earthen-lined facilities. Native American monitoring is recommended for during the first maintenance activity that involves ground disturbing activities at the following earthen facilities: E-53, E-54, E-55, E-56, E-58, E-60, H-15, H-16, H-17, H-18, H-19, H-20, H-21, SM-05, and HAARF. Monitoring requirements will be included in the Monitoring and Discovery Plan, along with measures to address any cultural discoveries during project-related activities. Once the areas have been inspected by an archaeologist and monitoring has been completed, documentation will be prepared confirming that there is no further need to monitor future maintenance activities at the same facility locations.

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# Appendix A Record Search Results

## **Appendix A- Record Search Results**

Record Search Maps and Site Forms constitute over 800 pages and are on file at ICF, 525 B Street, Suite 1700, San Diego, CA . In order to reduce paperwork and digital space the information will be made available upon request by the City of Escondido



South Coastal Information Center San Diego State University 5500 Campanile Drive San Diego, CA 92182-5320 Office: (619) 594-5682 www.scic.org scic@mail.sdsu.edu

#### CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM CLIENT IN-HOUSE RECORDS SEARCH

Company:	ICF	
Company Representative:	Nara Cox	
Date:	5/22/2019	
Project Identification:	Escondido Creek 59.19	
Search Radius:	1/4 mile	
Historical Resources:		SELF
Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.		
Previous Survey Report Boundaries:		SELF
Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.		
Historic Addresses:		SELF
A map and database of historic properties (formerly Geofinder) has been included.		
Historic Maps:		SELF
The historic maps on file at the South Coastal Information Center have been reviewed, and copies have been included.		

Copies:	272
Hours:	3

Ercel Lines = 33 Lines



South Coastal Information Center San Diego State University 5500 Campanile Drive San Diego, CA 92182-5320 Office: (619) 594-5682 www.scic.org scic@mail.sdsu.edu

#### CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM CLIENT IN-HOUSE RECORDS SEARCH

Company:	ICF	
Company Representative:	Nara Cox	
Date:	6/3/2019	
Project Identification:	Escondido Creek RGP94	
Search Radius:	1/4 mile	
Historical Resources:		SELF
Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.		
Previous Survey Report Boundaries:		SELF
Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.		
Historic Addresses:		SELF
A map and database of historic properties (formerly Geofinder) has been included.		
Historic Maps:		SELF
The historic maps on file at the South Coastal Information Center have been reviewed, and copies have been included.		

Copies:	596
Hours:	7

# Excel lines = 141 Lines

# Appendix B Figure 3 Cultural Survey Results (CONFIDENTIAL)

# Appendix C Native American Consultation

### Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Blvd, Suite 100 West Sacramento, CA 95501 (916) 373-3710 (916) 373-5471 – Fax <u>nahc@nahc.ca.gov</u>

### Information Below is Required for a Sacred Lands File Search

Project:		
County:		
USGS Quadrangle		
Name:		
Township:	Range:	Section(s):
Company/Firm/Agenc	y:	
Contact Person:		
Street Address:		
City:		Zip:
Phone:	Extension:	
Fax:		
Email:		

Project Description:

Project Location Map is attached

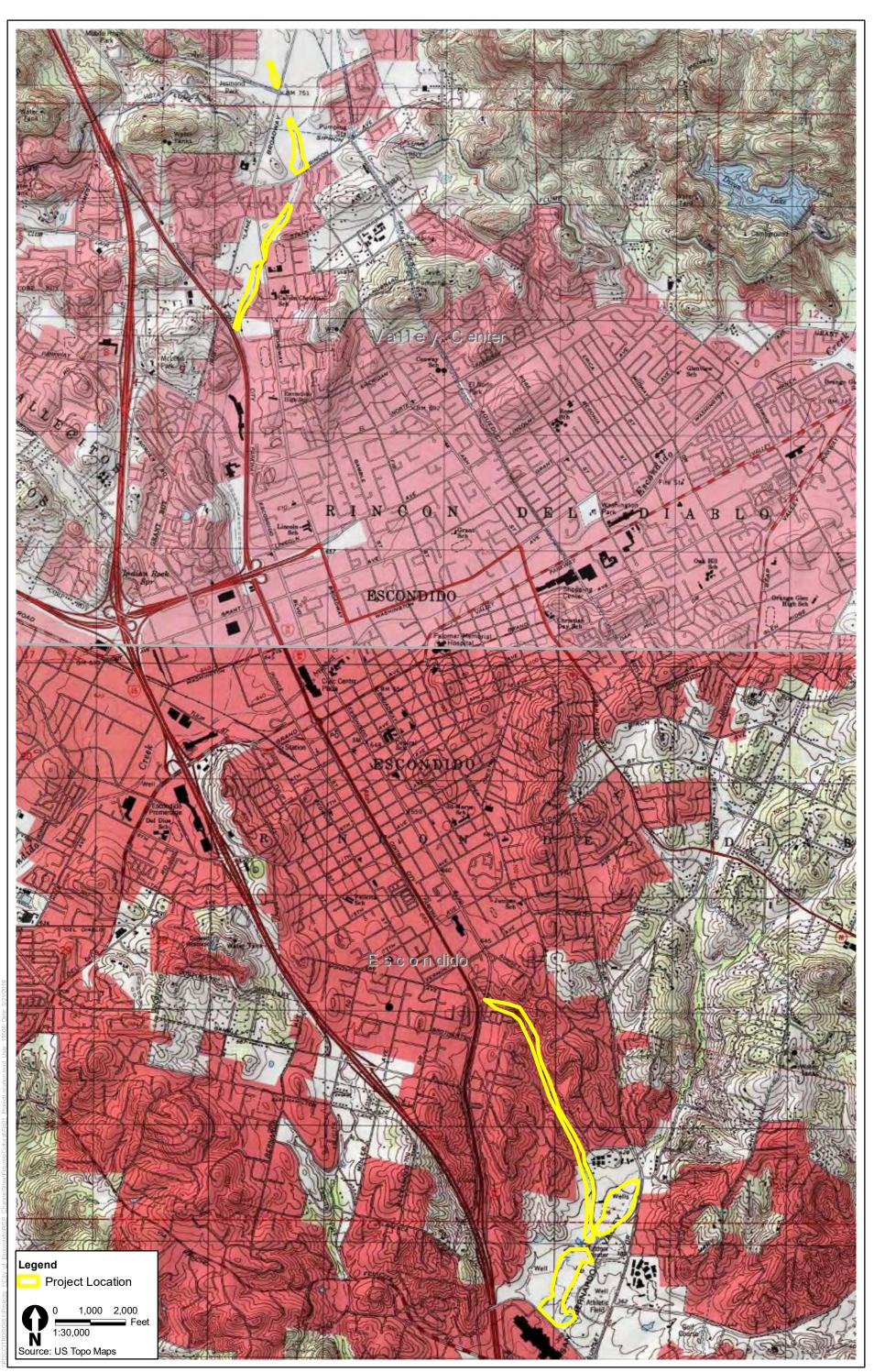


Figure 1 Project Location

NATIVE AMERICAN HERITAGE COMMISSION Cultural and Environmental Department 1550 Harbor Blvd., Suite 100 West Sacramento, CA 95691 Phone: (916) 373-3710 Email: <u>nahc@nahc.ca.gov</u> Website: <u>http://www.nahc.ca.gov</u> Twitter: @CA\_NAHC



June 5, 2019

Patrick McGinnis ICF

VIA Email to: Patrick.mcginnis@icf.com

RE: City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County

Dear Mr. McGinnis:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were <u>negative</u>. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Qui

Steven Quinn Associate Governmental Program Analyst

Attachment

#### Native American Heritage Commission Native American Contact List San Diego County 6/5/2019

#### Agua Caliente Band of Cahuilla Indians

Jeff Grubbe, Chairperson 5401 Dinah Shore Drive Palm Springs, CA, 92264 Phone: (760) 699 - 6800 Fax: (760) 699-6919

Cahuilla

#### Agua Caliente Band of Cahuilla Indians

Patricia Garcia-Plotkin, Director 5401 Dinah Shore Drive Cahuilla Palm Springs, CA, 92264 Phone: (760) 699 - 6907 Fax: (760) 699-6924 ACBCI-THPO@aguacaliente.net

#### Barona Group of the Capitan Grande

Edwin Romero, Chairperson 1095 Barona Road Diegueno Lakeside, CA, 92040 Phone: (619) 443 - 6612 Fax: (619) 443-0681 cloyd@barona-nsn.gov

### Campo Band of Diegueno

Mission Indians Ralph Goff, Chairperson 36190 Church Road, Suite 1 Diegueno Campo, CA, 91906 Phone: (619) 478 - 9046 Fax: (619) 478-5818 rgoff@campo-nsn.gov

#### Ewiiaapaayp Tribe

Robert Pinto, Chairperson 4054 Willows Road Diegueno Alpine, CA, 91901 Phone: (619) 445 - 6315 Fax: (619) 445-9126 wmicklin@leaningrock.net

Ewiiaapaayp Tribe Michael Garcia, Vice Chairperson 4054 Willows Road Diegueno Alpine, CA, 91901 Phone: (619) 445 - 6315 Fax: (619) 445-9126 michaelg@leaningrock.net

#### lipay Nation of Santa Ysabel

Clint Linton, Director of Cultural Resources P.O. Box 507 Santa Ysabel, CA, 92070 Phone: (760) 803 - 5694 cjlinton73@aol.com

Diegueno

#### lipay Nation of Santa Ysabel

Virgil Perez, Chairperson P.O. Box 130 Santa Ysabel, CA, 92070 Phone: (760) 765 - 0845 Fax: (760) 765-0320

Diegueno

#### Inaja-Cosmit Band of Indians

Rebecca Osuna, Chairperson 2005 S. Escondido Blvd. Diegueno Escondido, CA, 92025 Phone: (760) 737 - 7628 Fax: (760) 747-8568

#### Jamul Indian Village

Erica Pinto, Chairperson P.O. Box 612 Jamul. CA. 91935 Phone: (619) 669 - 4785 Fax: (619) 669-4817 epinto@jiv-nsn.gov

Diegueno

#### Kwaaymii Laguna Band of **Mission Indians**

Carmen Lucas, P.O. Box 775 Pine Valley, CA, 91962 Phone: (619) 709 - 4207

#### La Jolla Band of Luiseno Indians

Fred Nelson, Chairperson 22000 Highway 76 Pauma Valley, CA, 92061 Phone: (760) 742 - 3771

Luiseno

Kwaaymii

Diegueno

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County.

#### Native American Heritage Commission Native American Contact List San Diego County 6/5/2019

#### La Posta Band of Diegueno Mission Indians

Javaughn Miller, Tribal Administrator 8 Crestwood Road Boulevard, CA, 91905 Phone: (619) 478 - 2113 Fax: (619) 478-2125 jmiller@LPtribe.net

Diegueno

### La Posta Band of Diegueno

Mission IndiansGwendolyn Parada, Chairperson8 Crestwood RoadDieguenoBoulevard, CA, 91905Phone: (619) 478 - 2113Fax: (619) 478-2125LP13boots@aol.com

#### Manzanita Band of Kumeyaay Nation

Angela Elliott Santos, Chairperson P.O. Box 1302 Diegueno Boulevard, CA, 91905 Phone: (619) 766 - 4930 Fax: (619) 766-4957

#### Mesa Grande Band of Diegueno Mission Indians

Michael Linton, Chairperson P.O Box 270 Diegueno Santa Ysabel, CA, 92070 Phone: (760) 782 - 3818 Fax: (760) 782-9092 mesagrandeband@msn.com

#### Pala Band of Mission Indians

Shasta Gaughen, Tribal Historic Preservation Officer PMB 50, 35008 Pala Temecula Rd. Pala, CA, 92059 Phone: (760) 891 - 3515 Fax: (760) 742-3189 sgaughen@palatribe.com

#### Pauma Band of Luiseno Indians

Temet Aguilar, Chairperson P.O. Box 369 Pauma Valley, CA, 92061 Phone: (760) 742 - 1289 Fax: (760) 742-3422 bennaecalac@aol.com

Luiseno

#### Pechanga Band of Luiseno Indians

Paul Macarro, Cultural Resources Coordinator P.O. Box 1477 Luiseno Temecula, CA, 92593 Phone: (951) 770 - 6306 Fax: (951) 506-9491 pmacarro@pechanga-nsn.gov

#### Pechanga Band of Luiseno

Indians Mark Macarro, Chairperson P.O. Box 1477 Luiseno Temecula, CA, 92593 Phone: (951) 770 - 6000 Fax: (951) 695-1778 epreston@pechanga-nsn.gov

#### Rincon Band of Luiseno Indians

Bo Mazzetti, Chairperson One Government Center Lane Luiseno Valley Center, CA, 92082 Phone: (760) 749 - 1051 Fax: (760) 749-5144 bomazzetti@aol.com

#### Rincon Band of Luiseno Indians

Jim McPherson, Tribal Historic Preservation Officer One Government Center Lane Valley Center, CA, 92082 Phone: (760) 749 - 1051 Fax: (760) 749-5144 vwhipple@rincontribe.org

#### San Luis Rey Band of Mission

Indians 1889 Sunset Drive Luiseno Vista, CA, 92081 Phone: (760) 724 - 8505 Fax: (760) 724-2172 cjmojado@slrmissionindians.org

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County.

#### Native American Heritage Commission Native American Contact List San Diego County 6/5/2019

#### San Luis Rey Band of Mission Indians

San Luis Rey, Tribal Council 1889 Sunset Drive Luiseno Vista, CA, 92081 Phone: (760) 724 - 8505 Fax: (760) 724-2172 cjmojado@slrmissionindians.org

#### San Pasqual Band of Diegueno Mission Indians

John Flores, Environmental Coordinator P. O. Box 365 Diegueno Valley Center, CA, 92082 Phone: (760) 749 - 3200 Fax: (760) 749-3876 johnf@sanpasgualtribe.org

#### San Pasqual Band of Diegueno Mission Indians

Allen Lawson, Chairperson P.O. Box 365 Valley Center, CA, 92082 Phone: (760) 749 - 3200 Fax: (760) 749-3876 allenl@sanpasqualtribe.org

#### Soboba Band of Luiseno Indians

Scott Cozart, Chairperson P. O. Box 487 San Jacinto, CA, 92583 Phone: (951) 654 - 2765 Fax: (951) 654-4198 jontiveros@soboba-nsn.gov

Cahuilla Luiseno

Diegueno

#### Soboba Band of Luiseno Indians

Joseph Ontiveros, Cultural Resource Department P.O. BOX 487 San Jacinto, CA, 92581 Phone: (951) 663 - 5279 Fax: (951) 654-4198 jontiveros@soboba-nsn.gov

Cahuilla Luiseno

#### Sycuan Band of the Kumeyaay

NationCody J. Martinez, Chairperson1 Kwaaypaay CourtKumeyaayEl Cajon, CA, 92019Phone: (619) 445 - 2613Fax: (619) 445-1927ssilva@sycuan-nsn.gov

#### Sycuan Band of the Kumeyaay

Nation Lisa Haws, Cultural Resources Manager 1 Kwaaypaay Court El Cajon, CA, 92019 Phone: (619) 312 - 1935 Ihaws@sycuan-nsn.gov

Kumeyaay

#### Viejas Band of Kumeyaay Indians

Robert Welch, Chairperson 1 Viejas Grade Road Alpine, CA, 91901 Phone: (619) 445 - 3810 Fax: (619) 445-5337

Diegueno

#### Viejas Band of Kumeyaay Indians

Ernest Pingleton, Tribal Historic Officer, Resource Management 1 Viejas Grade Road Alpine, CA, 91901 Phone: (619) 659 - 2314 epingleton@viejas-nsn.gov

Diegueno

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resource Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County.



Pauma Band of Luiseno Indians Temet Aguilar, Chairperson P.O. Box 369 Pauma Valley, CA, 92061

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Aguilar:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

ICF has conducted a Phase I cultural resources inventory, and prepare a memorandum documenting the environmental surveys and CEQA reporting in support of the project. To accomplish this objective, ICF cultural resources personnel performed a records search, archival research, and a Sacred Lands File search. Archival research refers to both written and oral history including record searches at the South Central Information Center (SCIC), the Native American Heritage Commission (NAHC), as well as Native American consultation. Prehistoric sites have been identified directly within the project area as a result the record search and pedestrian survey.

The NAHC completed a search of the Sacred Lands File which failed to indicate the presence of Native American sacred lands within the project area. The NAHC identify you as a person who may have concerns or knowledge of cultural resources in the project area. Any information you might be able to share about the project area would greatly enhance the study and would be appreciated.

If you would like to participate in the consultation process, or if you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our draft report. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. This outreach is for due diligence and not under AB52 or Section 106. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

Sincerely,

Patier Migini

Patrick McGinnis, MA Archaeologist



San Pasqual Band of Diegueno Mission Indians Steven Cope, Chairperson P.O. Box 365 Valley Center, CA, 92082

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Cope:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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The NAHC completed a search of the Sacred Lands File which failed to indicate the presence of Native American sacred lands within the project area. The NAHC identify you as a person who may have concerns or knowledge of cultural resources in the project area. Any information you might be able to share about the project area would greatly enhance the study and would be appreciated.

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Soboba Band of Luiseno Indians Scott Cozart, Chairperson P.O. Box 487 San Jacinto, CA, 92583

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Cozart:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patient Mighting

Patrick McGinnis, MA Archaeologist



Campo Band of Diegueno Mission Indians Harry Cuero, Chairperson 36190 Church Road, Suite 1 Campo, CA 91906

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Cuero:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Jamul Indian Village Lisa Cumper, Chairperson P.O. Box 612 Jamul, CA 91935

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Cumper:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Manzanita Band of Kumeyaay Nation Angela Elliott Santos, Chairperson P.O. Box 1302 Boulevard, CA, 91905

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Elliott Santos:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



San Pasqual Band of Diegueno Mission Indians John Flores, Environmental Coordinator P.O. Box 365 Valley Center, CA, 92082

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Flores:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Ewiiaapaayp Tribal Office Michael Garcia, Vice Chairperson 4054 Willows Road Alpine, CA 91901

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Garcia:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patient Mighting

Patrick McGinnis, MA Archaeologist



Agua Caliente Band of Cahuilla Indians Patricia Garcia-Plotkin, Director 5401 Dinah Shore Drive Palm Springs, CA, 92264

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Garcia-Plotkin:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Pala Band of Mission Indians Shasta Gaughen, THPO PMB 50, 35008 Pala Temecula Rd. Pala, CA, 92059

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Gaughen:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Agua Caliente Band of Cahuilla Indians Jeff Grubbe, Chairperson 5401 Dinah Shore Drive Palm Springs, CA, 92264

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Grubbe:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

fating Med:

Patrick McGinnis, MA Archaeologist



Iipay Nation of Santa Ysabel Clint Linton, Director of Cultural Resources P.O. Box 507 Santa Ysabel, CA 92070

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Linton:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Kwaaymii Laguna Band of Mission Indians Carmen Lucas P.O. Box 775 Pine Valley, CA 91962

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Lucas:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Mesa Grande Band of Diegueno Mission Indians Michael Linton, Chairperson P.O. Box 270 Santa Ysabel, CA, 92070

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Linton:

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Sincerely,

Patier Migini

Patrick McGinnis, MA Archaeologist



Pechanga Band of Luiseno Indians Mark Macarro, Chairperson P.O. Box 1477 Temecula, CA, 92593

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Macarro:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Sycuan Band of the Kumeyaay Nation Cody J. Martinez, Chairperson 1 Kwaaypaay Court El Cajon, CA 92019

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Martinez:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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The NAHC completed a search of the Sacred Lands File which failed to indicate the presence of Native American sacred lands within the project area. The NAHC identify you as a person who may have concerns or knowledge of cultural resources in the project area. Any information you might be able to share about the project area would greatly enhance the study and would be appreciated.

If you would like to participate in the consultation process, or if you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our draft report. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. This outreach is for due diligence and not under AB52 or Section 106. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

Sincerely,

Patier Medinin

Patrick McGinnis, MA Archaeologist



Rincon Band of Luiseno Indians Bo Mazzetti, Chairperson 1 Government Center Lane Valley Center, CA, 92082

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Mazzetti:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Migini

Patrick McGinnis, MA Archaeologist



Rincon Band of Luiseno Indians Jim McPherson, THPO 1 Government Center Lane Valley Center, CA, 92082

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. McPherson:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patient Milinin

Patrick McGinnis, MA Archaeologist



La Posta Band of Diegueno Mission Indians Javaughn Miller, Tribal Administrator 8 Crestwood Road Boulevard, CA, 91905

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Miller:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Migini

Patrick McGinnis, MA Archaeologist



La Jolla Band of Luiseno Indians Fred Nelson, Chairperson 22000 Highway 76 Pauma Valley, CA, 92061

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Nelson:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Soboba Band of Luiseno Indians Joseph Ontiveros, Cultural Resource Department P.O. Box 487 San Jacinto, CA, 92581

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Ontiveros:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Sycuan Band of the Kumeyaay Nation Kristie Orosco, Cultural Resources Manager 1 Kwaaypaay Court El Cajon, CA 92019

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Orosco:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Inaja-Cosmit Band of Indians Rebecca Osuna, Chairperson 2005 S. Escondido Blvd. Escondido, CA 92025

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Osuna:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patient Mighting

Patrick McGinnis, MA Archaeologist



Pechanga Band of Luiseno Indians Paul Macarro, Cultural Resources Coordinator P.O. Box 1477 Temecula, CA, 92593

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Macarro:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



La Posta Band of Diegueno Mission Indians Gwendolyn Parada, Chairperson 8 Crestwood Road Boulevard, CA, 91905

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Parada:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Viejas Band of Kumeyaay Indians Ernest Pingleton, Tribal Historic Officer, Resource Management 1 Viejas Grade Road Alpine, CA 91901

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Pingleton:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Ewiiaapaayp Tribal Office Robert Pinto, Chairperson 4054 Willows Road Alpine, CA 91901

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Pinto:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Milini

Patrick McGinnis, MA Archaeologist



Barona Group of the Capitan Grande Edwin Romero, Chairperson 1095 Barona Road Lakeside, CA, 92040

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Romero:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patier Migini

Patrick McGinnis, MA Archaeologist



San Luis Rey Band of Mission Indians San Luis Rey, Tribal Council 1889 Sunset Drive Vista, CA, 92081

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Tribal Council:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

fating Med:

Patrick McGinnis, MA Archaeologist



Iipay Nation of Santa Ysabel Brandie Taylor, Vice Chairperson P.O. Box 130 Santa Ysabel, CA 92070

#### Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Taylor:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

ICF has conducted a Phase I cultural resources inventory, and prepare a memorandum documenting the environmental surveys and CEQA reporting in support of the project. To accomplish this objective, ICF cultural resources personnel performed a records search, archival research, and a Sacred Lands File search. Archival research refers to both written and oral history including record searches at the South Central Information Center (SCIC), the Native American Heritage Commission (NAHC), as well as Native American consultation. Prehistoric sites have been identified directly within the project area as a result the record search and pedestrian survey.

The NAHC completed a search of the Sacred Lands File which failed to indicate the presence of Native American sacred lands within the project area. The NAHC identify you as a person who may have concerns or knowledge of cultural resources in the project area. Any information you might be able to share about the project area would greatly enhance the study and would be appreciated.

If you would like to participate in the consultation process, or if you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our draft report. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. This outreach is for due diligence and not under AB52 or Section 106. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

Sincerely,

Patiet Mighing

Patrick McGinnis, MA Archaeologist



Viejas Band of Kumeyaay Indians Robert Welch, Chairperson 1 Viejas Grade Road Alpine, CA 91901

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Mr. Welch:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

ICF has conducted a Phase I cultural resources inventory, and prepare a memorandum documenting the environmental surveys and CEQA reporting in support of the project. To accomplish this objective, ICF cultural resources personnel performed a records search, archival research, and a Sacred Lands File search. Archival research refers to both written and oral history including record searches at the South Central Information Center (SCIC), the Native American Heritage Commission (NAHC), as well as Native American consultation. Prehistoric sites have been identified directly within the project area as a result the record search and pedestrian survey.

The NAHC completed a search of the Sacred Lands File which failed to indicate the presence of Native American sacred lands within the project area. The NAHC identify you as a person who may have concerns or knowledge of cultural resources in the project area. Any information you might be able to share about the project area would greatly enhance the study and would be appreciated.

If you would like to participate in the consultation process, or if you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our draft report. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. This outreach is for due diligence and not under AB52 or Section 106. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

Sincerely,

Patient Milinin

Patrick McGinnis, MA Archaeologist

TRIB Stephene Stephen

Justin Quis Quis Vice Chairman

Tilda M. Green Secretary-Treasurer

David L. Toler Councilman

Joe Chavez Councilman SAN PASQUAL BAND OF MISSION INDIANS

#### SAN PASQUAL RESERVATION

Patrick McGinnis, MA Archaeologist 525 B Street, Suite 1700 San Diego, Ca. 92101

Re: City of Escondido RGP 94 Channel Maintenance Program

Dear Mr. McGinnis,

The San Pasqual Band of Mission Indians Tribal Historic Preservation Office has received your notification of the project referenced above. This letter constitutes our response on behalf of David L. Toler THPO Officer.

We have consulted our maps and determined that the project as described is not within the boundaries of the recognized San Pasqual Indian Reservation. It is, however, within the boundaries of the territory that the tribe considers its Traditional Use Area (TUA). Therefore, we request to be kept in the information loop as the project progresses and would appreciate being maintained on the receiving list for project updates, reports of investigations, and/or any documentation that might be generated regarding previously reported or newly discovered sites. Furthermore, we recommend archaeological monitoring given the proximity of known prehistoric sites. If the project boundaries are modified to extend beyond the currently proposed limits, we request updated information and the opportunity to respond to your changes.

In regard to the channels that are of "earthen storms water facilities", we would like to request a new map showing their locations, as we may recommend San Pasqual Cultural Monitors at those sites.

We appreciate involvement with your initiative and look forward to working with you on future efforts. If you have questions or need additional information, please do not hesitate to contact me by telephone 760-651-5142 or by e-mail at <u>THPO@sanpasqualtribe.org</u>.

Sincerely,

Angelina S

Angelina Gutierrez Tribal Historic Preservation Office, Monitor Supervisor San Pasqual Band of Mission Indians

P.O. BOX 365 · 16400 KUMEYAAY WAY, VALLEY CENTER, CA 92082



January 8, 2020

San Pasqual Band of Diegueno Mission Indians Angelina Gutierrez, Monitor Supervisor Tribal Historic Preservation Office P.O. Box 365 Valley Center, CA, 92082

## Subject: City of Escondido RGP 94 Channel Maintenance Program– Due Diligence Outreach

Dear Ms. Gutierrez

Thank you for response to the outreach letter sent regarding the City of Escondido's RGP 94 Channel maintenance Program in October2019. We have received your response dated November 7, 2019 which requests a map of earthen storm water facilities associated with the project. We created a map for this purpose and it is enclosed. I have also included an updated copy with all of the project facility locations for reference. The record search for the project indicated that there are six prehistoric archaeological resources that intersect with project facilities. During pedestrian surveys none of these resources were relocated in the field. In some cases areas had been developed since the resource was recorded, vegetation and soil obscured the ground surface in the area of the resource, or the resource appear to have been mismapped when originally recorded.

Currently, we are recommending archaeological and Native American monitoring at the locations listed below due to proximity to previously recorded archaeological sites or the inability too observe the ground surface due to dense vegetation or access issues.

#### Facilities Recommended for Archaeological Cultural Resources Monitoring

Facility ID	Rationale for Monitoring
E-54	Previously recorded resource nearby.
E-55	Previously recorded resource nearby.
E-58	Dense vegetation. Previously recorded resource nearby.
E-60	Dense vegetation. Previously recorded resources nearby.
H-19	Lack of access.
H-16	Dense vegetation precluded relocating previously recorded site in APE.

Angelina Gutierrez January 8, 2020 Page 2 of 2

H-18	Dense vegetation. No monitoring recommended for the bike trail or within Concrete Channel.
SM-05	Monitor due to limited visibility and recorded resources nearby.
Kit Carson Park	Monitor within Kit Carson Downstream Mitigation site due to the vicinity of CA-SDI-572 and only within 100' of that site.

If you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our project measures. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. We look forward to continuing to work with you and the Tribe on this project. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

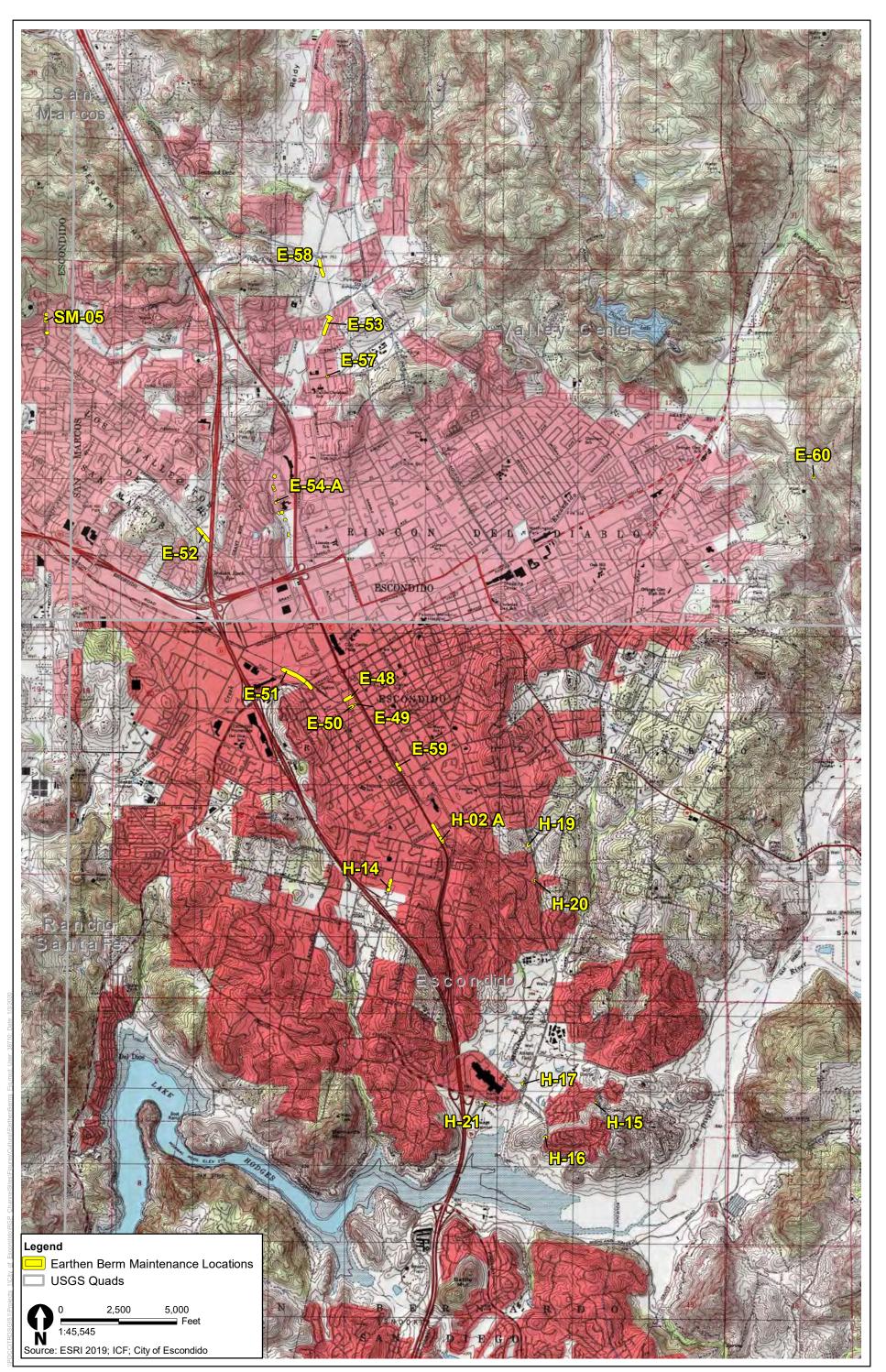
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Sincerely,

Faterle ME Sino

Patrick McGinnis, MA Archaeologist

Encl. Earthen Berm Locations Figure, Project Location Figure



## Earthern Berm Locations Escondido RGP



P.O Box 908 Alpine, CA 91903 #1 Viejas Grade Road Alpine, CA 91901

Phone: 6194453810 Fax: 6194455337 viejas.com

November 7, 2019

Patrick McGinnis ICF 525 B Street, Suite 1700 San Diego, CA 92101 USA

#### RE: RGP 94 Channel Maintenance Program

Dear Mr. McGinnis,

The Viejas Band of Kumeyaay Indians ("Viejas") has reviewed the proposed project and at this time we have determined that the project site has cultural significance or ties to the Kumeyaay Nation. We recommend that you notify the:

San Pasqual Band of Mission Indians

- HEAD PIOL BOX 365 MARKED AND A MADE HAD T
- Valley Center, Ca 92082

Additionally, we request, as appropriate, the following:

- All NEPA/CEQA/NAGPRA laws be followed
- Immediately contact San Pasqual on any changes or inadvertent discoveries.

Thank you for your collaboration and support in preserving our Tribal cultural resources. I look forward to hearing from you. Please call me at 619-659-2312 or Ernest Pingleton at 619-659-2314, or email, <u>rteran@viejas-nsn.gov</u> or <u>epingleton@viejas-nsn.gov</u>, for scheduling. Thank you.

Sincerely,

Ray Teran, Resource Management VIEJAS BAND OF KUMEYAAY INDIANS

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December 4, 2019

Patrick McGinnis ICF 525 B Street, Suite 1700 San Diego, CA 92101

Re: City of Escondido RGP 94 Channel Maintenance Program

Dear Mr. McGinnis:

The Pala Band of Mission Indians Tribal Historic Preservation Office has received your notification of the project referenced above. This letter constitutes our response on behalf of Robert Smith, Tribal Chairman.

We have consulted our maps and determined that the project as described is not within the boundaries of the recognized Pala Indian Reservation. The project is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area (TUA). It is, however, situated in close proximity to the Reservation and information generated would likely be useful in better understanding regional culture and history. Therefore, we request as a courtesy to be kept in the information loop as the project progresses and would appreciate being maintained on the receiving list for project updates, reports of investigations, and/or any documentation that might be generated regarding previously reported or newly discovered sites. Further, if the project boundaries are modified to extend beyond the currently proposed limits, we do request updated information and the opportunity to respond to your changes.

Finally, we recommend that Approved Cultural Monitors be present on-site during all survey and all ground-disturbing activities. If you do not have access to an Approved Cultural Resource Monitor, contact us and we will work with you to identify appropriately trained individuals.

We appreciate involvement with your initiative and look forward to working with you on future efforts. If you have questions or need additional information, please do not hesitate to contact Alexis Wallick by telephone at 760-891-3537 or by e-mail at awallick@palatribe.com.

Sincerely,

Shasta C. Gaughen, Ph.D. Tribal Historic Preservation Officer Pala Band of Mission Indians

Confidential Appendix: Not for Public Review

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# SAN PASQUAL BAND OF MISSION INDIANS

#### SAN PASQUAL RESERVATION

November 24, 2020

Jay Paul

#### TRIBAL COUNCIL

Stephen W. Cope Chairman

Justin Quis Quis Vice Chairman

Tilda M. Green Secretary-Treasurer

David L. Toler Councilman

Joe Chavez Councilman City of Escondido 201 North Broadway Escondido, CA 92025 RE: RGP-94- Chanel Maintenance program

Sent via E-mail- Due to COVID -19

Dear Mr. Paul,

The San Pasqual Band of Mission Indians Tribal Historic Preservation Office has received your notification of the project referenced above. This letter constitutes our response on behalf of David L. Toler THPO Officer.

We have consulted our maps and determined that the project as described is not within the boundaries of the recognize San Pasqual Indian Reservation. The project is within the boundaries of the territory that the tribe considers its Traditional Use Area (TUA). Therefore, , we request to be kept in the information loop as the project progresses and would appreciate being maintained on the receiving list for project updates, reports of investigations, and/or any documentation that might be generated regarding previously reported or newly discovered sites. Further, we may recommend archaeological monitoring pending the results of site surveys and records searches associated with the project. If the project boundaries are modified to extend beyond the currently proposed limits, we request updated information and the opportunity to respond to your changes.

We appreciate involvement with your initiative and look forward to working with you on future efforts. If you have questions or need additional information, please do not hesitate to contact me by telephone 760-651-5142 or by e-mail at <u>Thpo@sanpasqualtribe.org</u> please CC: <u>Angelinag@sanpasqualtribe.org</u> thank you.

Respectfully,

angelina Gutierrez

Angelina Gutierrez Tribal Historic Preservation Office, Monitor Supervisor San Pasqual Band of Mission Indians