

Delineation of Potential Jurisdictional Waters



CSA-11 Water Service Extension and Pescadero Fire Station (Station 59) Projects Pescadero, San Mateo County, California

Prepared for:

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TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 PROJECT BACKGROUND INFORMATION 1
2.1 Extent and Location of Study Area 1
2.2 General Setting of Study Area 4
3.0 REGULATORY BACKGROUND 5
3.1 Federal Regulatory Framework 5
3.2 California State and Regional Regulatory Framework
4.0 METHODS
4.1 Preliminary Review and Field Preparation
4.2 Field Survey and Personnel
4.2.1 Soils9
4.2.2 Hydrology9
4.2.3 Vegetation
5.0 RESULTS 15
5.1 Overview
5.2 Potential Jurisdictional Waters 15
5.2.1 Riparian Habitat15
5.2.2 Emergent Channel20
5.3 Summary 21
6.0 REFERENCES

FIGURES, TABLES, AND APPENDICES

FIGURE 1. Regional Vicinity Map	2
FIGURE 2. USGS Topographic Map	3
FIGURE 3a-d. Topography and Soil Units	11
FIGURE 4a-d. Map of Potential Jurisdictional Waters	16
TABLE 1. WETS Analysis Table for the May 2021 Survey	4
TABLE 2. Acreage of Mapped Potential Jurisdictional Waters	15

APPENDIX A. Representative Photographs of the Study Area APPENDIX B. Wetland Delineation Data Forms

1.0 INTRODUCTION

This document presents the methods and results of the delineation of potential jurisdictional Waters of the United States and/or State of California within the CSA-11 Water Service Extension and Pescadero Fire Station (Station 59) Projects (project). The Study Area for the project is located within the Town of Pescadero, in San Mateo County (County), California (**Figure 1**). The project involves construction of a new County fire station, installation of 1.5 miles of new water supply pipeline to serve Pescadero High School and the new County fire station, and decommission of a portion of the existing County fire station. The new water supply pipeline will extend from the existing CSA-11 water line east of the intersection of Pescadero Creek Road and Stage Road to Pescadero High School, and the pipeline will run along the unpaved roadway shoulders, or within paved road. The new fire station will be constructed within an undeveloped portion of Pescadero High School, which is owned by La Honda-Pescadero Unified School District. The existing fire station, located at 1200 Pescadero Creek Road, will be partially decommissioned, while retaining a portion of the existing structures. The purpose of the delineation is to identify and map any potentially jurisdictional Waters within the Study Area, which is approximately 36.306 acres. The delineation was conducted by staff from Vollmar Natural Lands Consulting (VNLC).

All Waters delineated within the Study Area may be subject to federal jurisdiction by the U.S. Army Corps of Engineers (ACOE) through Section 404 of the Clean Water Act/Section 10 of the Rivers and Harbors Act and may also be subject to State jurisdiction by the California Department of Fish and Wildlife (CDFW), the Regional Water Quality Control Board (RWQCB) and/or the California Coastal Commission (CCC) through state regulations. The results of this delineation are preliminary and must be reviewed and verified in writing by the ACOE to be considered an official delineation.

The delineation identified a total of 2.123 acres of potential jurisdictional wetlands, which include 0.204 acre of emergent channel and 1.919 acres of riparian habitat.

2.0 PROJECT BACKGROUND INFORMATION

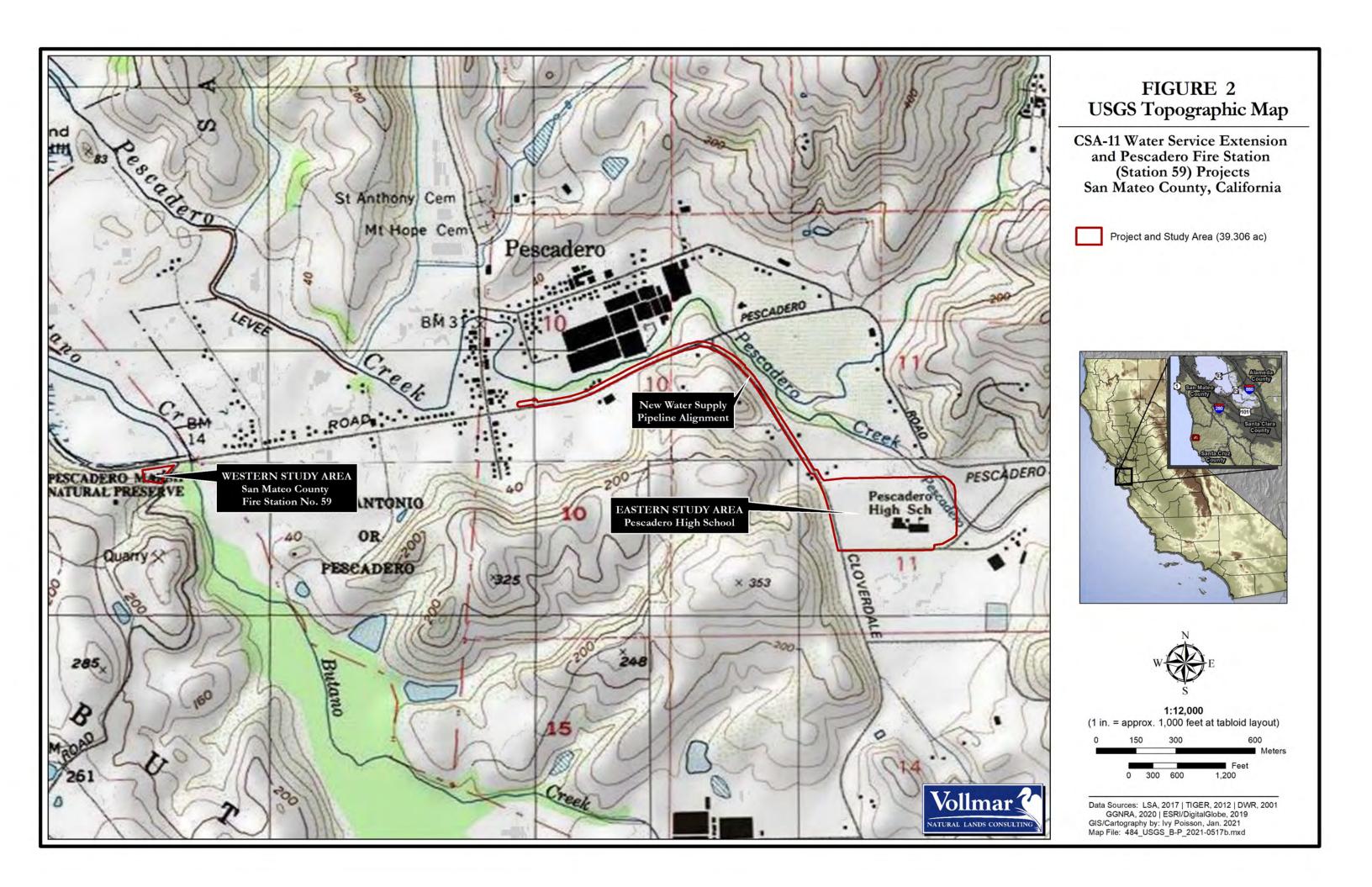
2.1 Extent and Location of Study Area

The Study Area consists of the San Mateo County Fire Station – Station 59 (APN 086-160-050), the proposed water pipe alignment along Pescadero Creek Road/Cloverdale Road, and Pescadero High School (APN 087-053-010). Project actions like ingress/egress, staging, and construction are anticipated to occur within the Study Area.

The Study Area is broken up into the western and eastern portions; the western portion consists of the existing Fire Station 59, while the eastern portion consists of the proposed water pipe alignment and Pescadero High School (where the new fire station is proposed to be built in the southwest corner). The Study Area is mapped within the Franklin Point, La Honda, Pigeon Point, and San Gregorio U.S. Geological Survey (USGS) 7½ minute topographic quadrangles and the Butano Landgrant, San Antonio or Pescadero Landgrant, and Sections 10 and 11 of Township 08 South, Range 05 West (**Figure 2**). The Study Area may be accessed via the Pacific Coast Highway by exiting at Pescadero Creek Road and continuing east for 1.25 miles until Fire Station 59 is reached, at 1200 Pescadero Creek Road. To reach Pescadero High School, continue west along Pescadero Creek Road for another 1.25 miles, turn right (southeast) on Cloverdale Road, and then turn left (east) on Butano Cutoff. Pescadero High School is located to the left (north) after 0.2 mile, at 360 Butano Cutoff, Pescadero.

The western Study Area (Fire Station 59) is primarily surrounded by open space, with Butano Creek and agricultural land use to the east. The eastern Study Area is surrounded by agricultural land use, civic buildings, and open space. The Study Area is described in greater detail below.





2.2 General Setting of Study Area

The Study Area is located within the Pescadero Watershed, the largest watershed in San Mateo County. Land use within the surrounding area is predominantly rural, which is a blend of open space, agriculture (farmland and ancillary structures), and civic buildings (school and fire station). The elevation within the Study Area ranges from 26-92 feet (8-28 meters) above sea level (USGS 1997). There are two creeks that are within or adjacent to the Study Area: Butano Creek is located 150 feet east of the western Study Area (**Figure 3a**), while Pescadero Creek is located within the northeastern corner of the eastern Study Area (**Figure 3b** – **3d**). Since there is no riparian or wetland habitat associated with Butano Creek within the western Study Area, both the western Study Area and Butano Creek will not be discussed further in this report.

The Study Area is located within the Coastal Zone, as defined by the CCC. Therefore, only one parameter is required for a feature to be considered a wetland (CCC 2011; County of San Mateo 2021). The Study Area and greater San Mateo County coast is within the "Western Mountains, Valleys, and Coast" climate zone, as defined by the ACOE.

The region's coastal climate is similar to California's Mediterranean climate, which is characterized by cool, wet winters and hot, dry summers, though the coastal climate features warmer winters, cooler summers, and greater moisture throughout the year. Mean annual precipitation and temperature at the study area are 29.7 inches and 55.9 degrees Fahrenheit, respectively (PRISM 2021). More than 98 percent of annual precipitation occurs during the "wet season," which extends from October to May. The 2020-2021 wet season (up to the end of April 2021) experienced much lower than average precipitation and slightly lower than average temperatures compared to historical wet seasons (October to April, due to the date of this report). Specifically, precipitation was 42.0 percent of normal (11.8 inches versus 28.0 inches), and mean temperatures were 96.2 percent of normal (51.6 degrees F versus 53.6 degrees F) (ibid). Each month of the 2020-2021 wet season received significantly lower than average rainfall. See **Table 1**.

	ipitation Dat 30 Years (19		P	Recent Field Conditions Compared to Precipitation Data from the Last 30 Years, and Analysis ¹								
Date	30th Percentile (inches)	70th Percentile (inches)	Date	DateRecorded Rainfall (inches)Rainfall Condition Compared to Previous 30 Years2Numeric Condition Value3Weigh Fact								
Apr	1.69 3.78 Apr 2021 0.22 Dry 1 3											
Mar	2.61	6.52	Mar 2021	Mar 2021 2.33 Dry 1 2								
Feb	2.9	9.77	Feb 2021	3.03	Normal	2	1	2				
(USDA ² Below percent ³ Relat dry = 1 ⁴ Great hydrolo ⁵ The n	 ¹ All precipitation data is obtained from the Skyline Ridge Preserve, CA Weather Station (USDA-NRCS 2021). ² Below 30th percentile = dry; between 30th and 70th percentile = normal; above 70th percentile = wet. ³ Relative rainfall conditions are then translated to a numeric condition value, as follows: dry = 1, normal = 2, wet = 3. ⁴ Greater weight is given to the most recent month as this would most likely influence what hydrologic or vegetative characteristics are observed. ⁵ The numeric condition value is then multiplied by the weighting factor, then the subtotals are added to get the total value. Total value equivalents: 6-9 = dry; 10-14 = normal; 15-18 = wet 											

TABLE 1. WETS	Analysis Ta	able for the	May 2021	Survey
	Analysis it		1110 2021	Juivey

3.0 REGULATORY BACKGROUND

3.1 Federal Regulatory Framework

The federal government, through Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act (RHA), has jurisdiction over all Waters of the United States. Waters of the United States are divided into four subsets – territorial seas and traditional navigable waters (TNWs); tributaries to TNWs; lakes, ponds, and impoundments of TNWs; and wetlands adjacent to territorial seas and TNWs. Section 404 of the CWA regulates the discharge of dredged or fill material into Waters of the United States. The CWA grants dual regulatory authority of Section 404 to the U.S. Environmental Protection Agency (EPA) and ACOE. The ACOE is responsible for issuing and enforcing permits for activities in jurisdictional Waters in conjunction with prior permitting authorities in navigable Waters under the RHA of 1899. The EPA is responsible for providing oversight of the permit program. In this capacity, the EPA has developed guidelines for permit review (Section 404 [b][1] Guidelines) and has the authority to veto permits by designating certain sites as non-fill areas (Section 404[c] of the CWA). The EPA also has enforcement authority under Section 404. The ACOE generally extends its jurisdiction to all areas meeting the criteria for Waters of the United States.

As defined in the 2020 Navigable Waters Protection Rule (published in the Federal Register, effective June 22, 2020), waters of the U.S. exclude features that lack hydrological surface connection to territorial seas and TNWs. Examples of water features excluded from federal jurisdiction include: groundwater, ephemeral features in a typical water year, diffuse stormwater runoff/sheet flow over upland areas, farm/roadside ditches¹, cropland², artificially irrigated areas³, artificially created water conveyance structures located in uplands, groundwater systems in upland or in non-jurisdictional waters, and waste treatment systems.

Projects which propose activities that fall under the jurisdiction of Section 404 of the CWA and/or Section 10 of the RHA must obtain approval from the ACOE through the individual or nationwide permit (NWP) process. Individual permits entail a full public interest review that includes consultation with other federal and state agencies.

3.2 California State and Regional Regulatory Framework

California Department of Fish and Wildlife

The CDFW regulates river, stream, and lake habitats through Fish and Game Code section 1600 *et seq*. Fish and Game Code section 1602 requires an entity to notify the CDFW prior to commencing any activity that may do one or more of the following:

- Substantially divert or obstruct the natural flow of any river, stream, or lake;
- Substantially change or use any material from the bed, channel, or bank of any river, stream, or lake; or
- Deposit debris, waste, or other materials that could pass into any river, stream, or lake.

A "river, stream, or lake" includes those that are episodic (i.e., they are dry for periods of time) as well as those that are perennial. The definition includes ephemeral streams, desert washes, and watercourses with a subsurface flow (CDFW 2016) and may also apply to work undertaken within the flood plain of a body of water, the boundary of which may be identified as a topographic feature or as riparian vegetation. In

¹ This exclusion would not apply if the farm/roadside ditch satisfies flow conditions of a perennial/intermittent tributary; i.e., the feature flows more than in direct response to precipitation events.

² This exclusion would not apply if the site was abandoned and reverts to wetland within 5 years.

³ This exclusion would only apply if the artificially irrigated area would revert to upland conditions if irrigation ceased.

addition, the CDFW does not distinguish between a "pond" and a "lake," such that relatively small bodies of water, including both natural and artificial features, may be regulated under section 1600.

The CDFW requires a Lake and Streambed Alteration (LSA) Agreement when it determines that the activity, as described in a complete LSA Notification, may substantially adversely affect existing fish or wildlife resources (ibid). A LSA Agreement includes measures necessary to protect existing fish and wildlife resources. The CDFW may suggest ways to modify a project that would eliminate or reduce harmful impacts to fish and wildlife resources. Before issuing a LSA Agreement, CDFW must comply with the California Environmental Quality Act (CEQA).

Regional Water Quality Control Board

The Study Area is located within the San Francisco Bay (Region 2) Regional Water Board which has authority to regulate projects that could potentially impact wetlands and/or other Waters. According to the California State Water Resources Control Board (State Water Board, 2006), the authority derives from the following:

- Porter-Cologne Water Quality Control Act through Waste Discharge Requirements to protect Waters of the state;
- The CWA under Section 4013;
- The San Francisco Bay Basin Water Quality Control Plan (Basin Plan [2005]) (Sections 4.23 & 4.23.4) which is available at http://www.waterboards.ca.gov/sanfranciscobay/basinplan incorporates several State directives to protect wetlands including:
 - Governor's Executive Order W-59-93 (i.e., the "California Wetland's Policy" which requires "No Net Loss of Wetlands");
 - Senate Concurrent Resolution No. 28; and
 - California Water Code Section 13142.5 (applies to coastal marine wetlands).

In addition to the state directives to protect wetlands, for individual permits (but not NWPs), the Basin Plan also directs the State Water Board staff to use the EPA's CWA 404(b)(1) guidelines to determine circumstances under which the filling of wetlands may be permitted and requires that attempts be made to avoid, minimize, and only lastly to mitigate for adverse impacts (ibid).

California's jurisdiction to regulate its water resources is much broader than that of the federal government. The State Water Board's Executive Director issued a memorandum directing the Regional Water Boards to regulate such waters under the authority of the Porter-Cologne Water Quality Control Act (Porter-Cologne). Porter-Cologne extends to "Waters of the State," which is broadly defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." This definition includes isolated wetlands and any action that may impact isolated wetlands is subject to the Water Board's jurisdiction, which may include the issuance of Statewide General Waste Discharge Requirements (WDRs). For projects that will impact less than 0.2 acre of "isolated" wetlands, the State Water Board issued Order No. 2004-004-DWQ, WDRs for Dredged or Fill Discharges to Waters Deemed by the U.S. Army Corps of Engineers to be Outside of Federal Jurisdiction (General WDRs). These General WDRs streamline the permitting process for low impact projects in isolated wetlands (ibid).

Activities or discharges from a project that could affect California's surface, coastal, or ground waters, require a permit from the local RWQCB. Discharging pollutants (or proposing to) into surface water requires the applicant to file a complete National Pollutant Discharge Elimination System permit application form with the RWQCB. Other types of discharges, such as those affecting groundwater or from

diffused sources (e.g., erosion from soil disturbance or waste discharges to land) are handled by filing a Report of Waste Discharge with the RWQCB in order to obtain WDRs. For specified situations, some permits may be waived and some discharge activities can be handled through enrollment in an existing general permit (ibid). The State has adopted updated Dredge and Fill procedures, which became effective May 28, 2020. These changes modify the current State definition and jurisdictional determination of State wetlands.

California Coastal Commission and San Mateo County

The Study Area is located within the Coastal Zone, which grants the California Coastal Commission (CCC) authority over many activities affecting wetlands (San Mateo 2011 and CCC 2021). Their authority is derived from the California Coastal Act of 1976.

In addition, wetlands in the Coastal Zone are subject to the one-parameter definition, as stated in the California Code of Regulations Title 14, Section 13577:

"Wetland shall be defined as land where the water table is at, near, or above the land surface long enough to promote the formation of hydric soils or to support the growth of hydrophytes, and shall also include those types of wetlands where vegetation is lacking and soil is poorly developed or absent as a result of frequent and drastic fluctuations of surface water levels, wave action, water flow, turbidity or high concentrations of salts or other substances in the substrate. Such wetlands can be recognized by the presence of surface water or saturated substrate at some time during each year and their location within, or adjacent to, vegetated wetlands or deep-water habitats."

Development activities in the Coastal Zone are subject to a Coastal Development Permit from either the CCC or the local government authority with a certified Local Coastal Plan. For this Study Area, San Mateo County would preside over permitting processes, under the guidance of County of San Mateo Local Coastal Program (LCP) Policies (San Mateo County 2013).

Development activities that are subject to the Coastal Development Permit include, but is not limited to:

"... the placement or erection of any solid material or structure; discharge or disposal of any dredged material or of any gaseous, liquid, solid, or thermal waste; grading, removing, dredging, mining, or extraction of any materials; change in the density or intensity of use of land [...]; change in the intensity of use of water, or of access thereto; construction, reconstruction, demolition, or alteration of the size of any structure, including any facility of any private, public, or municipal utility; and the removal or harvesting of major vegetation other than for agricultural purposes, kelp harvesting, and timber operations which are in accordance with a timber harvesting plan [...]. As used in this section, "structure" includes, but is not limited to, any building, road, pipe, flume, conduit, siphon, aqueduct, telephone line, and electrical power transmission and distribution line."

The San Mateo County LCP provides their own definition of wetlands and specific guidance regarding permitted uses within wetlands, buffer zone requirements for wetlands, and development activities within the buffer zone. The relevant definitions and policies relating to wetlands are reproduced below.

Policy 7.14: Definition of Wetland

Define wetland as an area where the water table is at, near, or above the land surface long enough to bring about the formation of hydric soils or to support the growth of plants which normally are found to grow in water or wet ground. Such wetlands can include mudflats (barren of vegetation), marshes, and swamps.

Such wetlands can be either fresh or saltwater, along streams (riparian), in tidally influenced areas (near the ocean and usually below extreme high water of spring tides), marginal to lakes, ponds, and man-made impoundments. Wetlands do not include areas which in normal rainfall years are permanently submerged (streams, lakes, ponds and impoundments), nor marine or estuarine areas below extreme low water of spring tides, nor vernally wet areas where the soils are not hydric. In San Mateo County, wetlands typically contain the following plants: cordgrass, pickleweed, jaumea, frankenia, marsh mint, tule, bullrush, narrow-leaf cattail, broadleaf cattail, pacific silverweed, salt rush, and bog rush. To qualify, a wetland must contain at least a 50% cover of some combination of these plants, unless it is a mudflat.

Policy 7.16: Permitted Use in Wetlands

Within wetlands, permit only the following uses: (1) nature education and research, (2) hunting, (3) fishing, (4) fish and wildlife management, (5) mosquito abatement through water management and biological controls; however, when determined to be ineffective, allow chemical controls which will not have a significant impact, (6) diking, dredging, and filling only as it serves to maintain existing dikes and an open channel at Pescadero Marsh, where such activity is necessary for the protection of pre-existing dwellings from flooding, or where such activity will enhance or restore the biological productivity of the marsh, (7) diking, dredging, and filling in any other wetland only if such activity serves to restore or enhance the biological productivity of the wetland, (8) dredging man-made reservoirs for agricultural water supply where wetlands may have formed, providing spoil disposal is planned and carried out to avoid significant disruption to marine and wildlife habitats and water circulation, and (9) incidental public service purposes, including, but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.

Policy 7.18: Establishment of Buffer Zones

Buffer zones shall extend a minimum of 100 feet landward from the outermost line of wetland vegetation. This setback may be reduced to no less than 50 feet only where: (1) no alternative development site or design is possible; and (2) adequacy of the alternative setback to protect wetland resources is conclusively demonstrated by a professional biologist to the satisfaction of the County and the State Department of Fish and Game. A larger setback shall be required as necessary to maintain the functional capacity of the wetland ecosystem

Policy 7.19: Permitted Uses in Buffer Zones.

Within the buffer zones, permit the following uses only: (1) uses allowed within wetlands policy (7.16) and (2) public trails, scenic overlooks, and agricultural uses that produce no impact on the adjacent wetlands.

4.0 METHODS

4.1 Preliminary Review and Field Preparation

Prior to conducting the field delineation, the project ecologist reviewed site aerial photography, topographic data, existing preliminary wetland and watershed mapping, and geology and soil survey maps of the Study Area and surrounding areas. This information was used to help characterize the Study Area, identify any potential Waters of the United States on a preliminary basis, and guide the field surveys. Background imagery and a project boundary map were loaded on to a professional GPS unit (Trimble GeoXH 6000) for use in navigation and mapping in the field.

4.2 Field Survey and Personnel

The delineation field survey was conducted on May 7, 2021, by Ivy Poisson (Ecologist, VNLC). During the survey, the ecologist traversed the entire Study Area, using detailed topographic and soils data as guides. The ecologist established delineation data points, recorded additional notes on plant community and site characteristics, and took representative photographs of habitats and features of interest. **Section 5** below presents summaries of the notes recorded during the field survey. A total of 5 delineation data points were established throughout the Study Area. At each data point, data were collected on soils, hydrology, and plant cover following the Routine Wetland Determination Method developed by the ACOE and described in the 1987 ACOE Wetlands Delineation Manual (Environmental Laboratory 1987) and the regional supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (ACOE 2010). The boundaries of all potential jurisdictional Waters identified in the Study Area were mapped using sub-meter precise GPS units.

The specific methods for collecting data on soils, hydrology, and plant cover at delineation data points are described below.

4.2.1 Soils

Soil profiles were taken at each data point using a tile spade shovel and/or a mattock (for difficult digging situations). Soils were examined for positive hydric soil indicators such as low matrix chromas, redox features, gleys, and iron and manganese concretions. The color and texture of the soil layers encountered were recorded on the delineation forms. A standardized soil texture chart used by the California Native Plant Society (CNPS) for assessing soils (adapted from Brewer and McCann 1982) was used to determine texture (e.g., clay versus clay loam, etc.). Soil color was identified using a Munsell soil color chart (Kollmorgen 2009). All soil samples were moistened before determining the color. Soil map units were cross-referenced with the California hydric soils list (SCS 1993) and the national hydric soils list (SCS 1991). Determination of whether or not the hydric soil criterion was met was based upon the criteria specified by the National Technical Committee for Hydric Soils (ibid) and the Western Mountains, Valleys, and Coast Supplement (ACOE 2010). In most cases, soils with a matrix chroma of 1, and mottled soils with a matrix chroma of 2 or less are considered to meet the hydric soil criteria. Soils that do not have low matrix chromas but are inundated or saturated within 12 inches of the surface are considered to be hydric when those conditions persist for at least 5 percent of the growing season (14 consecutive days). Topography and soil unit boundaries can be found on **Figures 3a-d**.

4.2.2 Hydrology

Indicators of wetland hydrology were noted, such as the presence of surface soil cracks, sediment deposits, sub-surface soil characteristics, and water-stained vegetation/thatch. To the extent possible, hydrological connectivity was investigated throughout the Study Area and surrounding habitats. This delineation was conducted in May, which experienced below average precipitation, and followed a winter and early spring that overall experienced below average precipitation (see **Section 2.2** and **Table 1** above). Based on plant

phenology, climate conditions appeared to be suitable for assessing wetland habitats, as perennial and annual seasonal wetland plant cover was conspicuous throughout the Study Area.

4.2.3 Vegetation

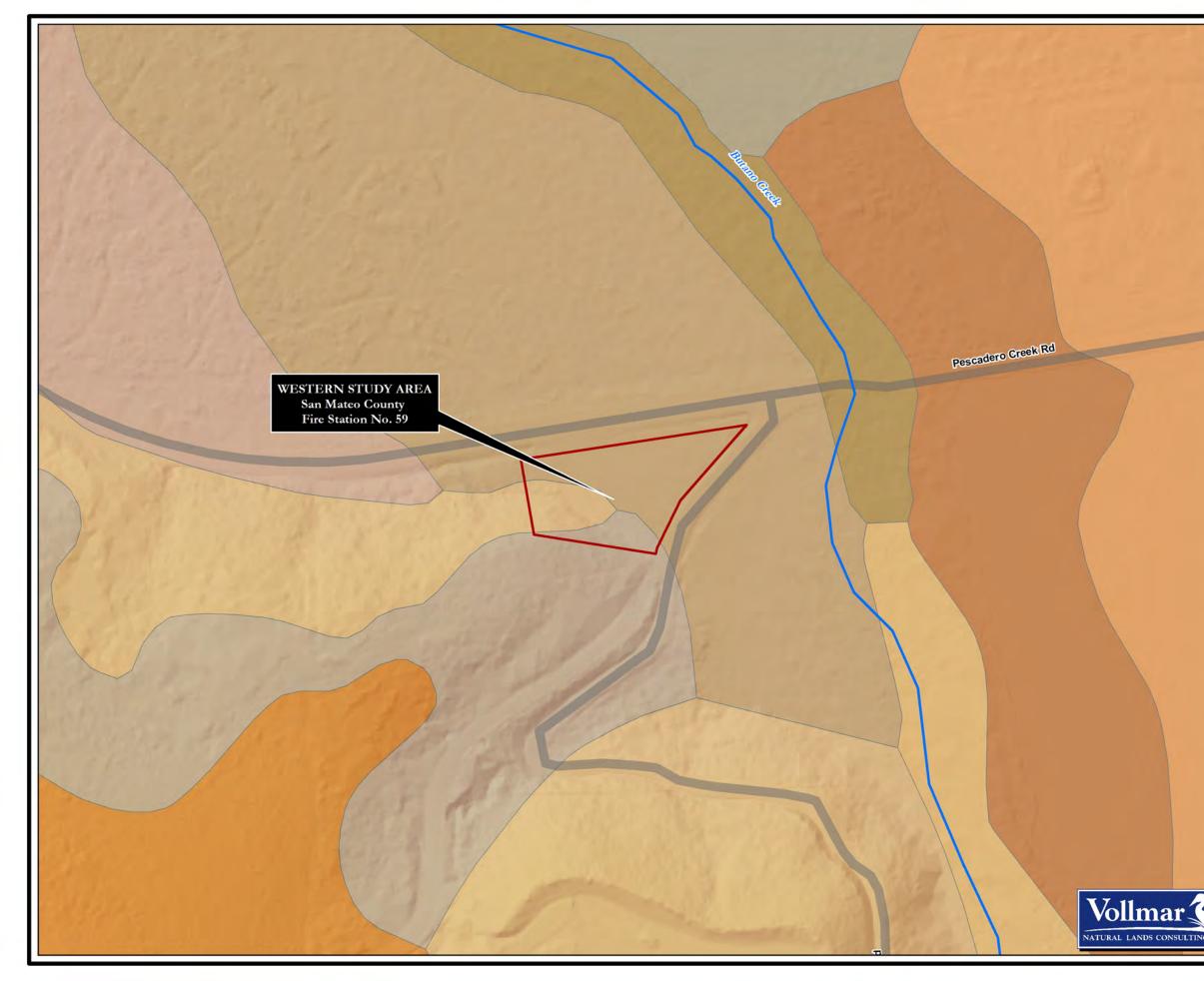
At each delineation data point, all herbaceous plant species within a five-foot radius were identified and a visual estimate of percent coverage for each species was recorded. The nearest trees and shrubs were accounted for at distances of 25 and 15 feet, respectively, as appropriate for the site. Plant species and strata cover estimations were calibrated using CNPS percent cover templates—see the following website: http://www.cnps.org/cnps/vegetation/pdf/percent_cover_diag-cnps.pdf.

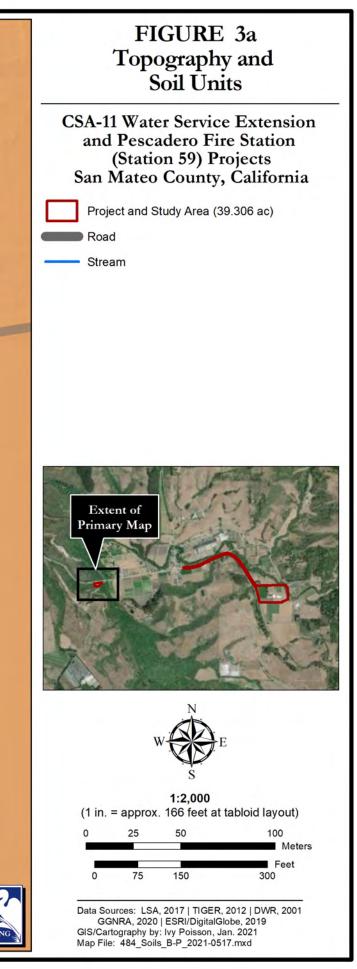
The indicator status of each species was then checked using the most recent ACOE National Wetland Plant List—Version 3.4 (Army Corps, 2018). Indicator status categories are as follows:

OBL = obligate wetland; >99% probability of occurring in a wetland
FACW = facultative wetland; 67%-99% probability of occurring in a wetland
FAC = facultative; 33%-67% probability of occurring in a wetland
FACU = facultative upland; 1%-33% probability of occurring in a wetland
UPL = obligate upland; <1% probability of occurring in a wetland
NL = not listed (plants not listed in Lichvar et al. [2018], including some known to occur occasionally or primarily in wetlands). Note: unlisted taxa are included as UPL on the delineation data forms included in Appendix B.

The wetland plant cover criterion is met when the vegetation passes the dominance test: greater than 50 percent of the dominant plants are designated as OBL, FACW, or FAC wetland indicators. The ACOE defines dominant plant species as those that, when included in descending order of their percent cover, together sum up to 50 percent of the relative cover in their stratum (tree, sapling/shrub/subshrub, herb, or woody vine). In addition, all species with at least 20 percent relative coverage of the total canopy within a stratum are always counted as dominants. All scientific and common plant names correspond to Baldwin et al. (2012) and/or the Calflora database (2021).

If the dominance test is not passed, vegetation can be considered hydrophytic if it meets the requirements of the prevalence index, morphological adaptations, or problematic wetland situations (ACOE 2008).





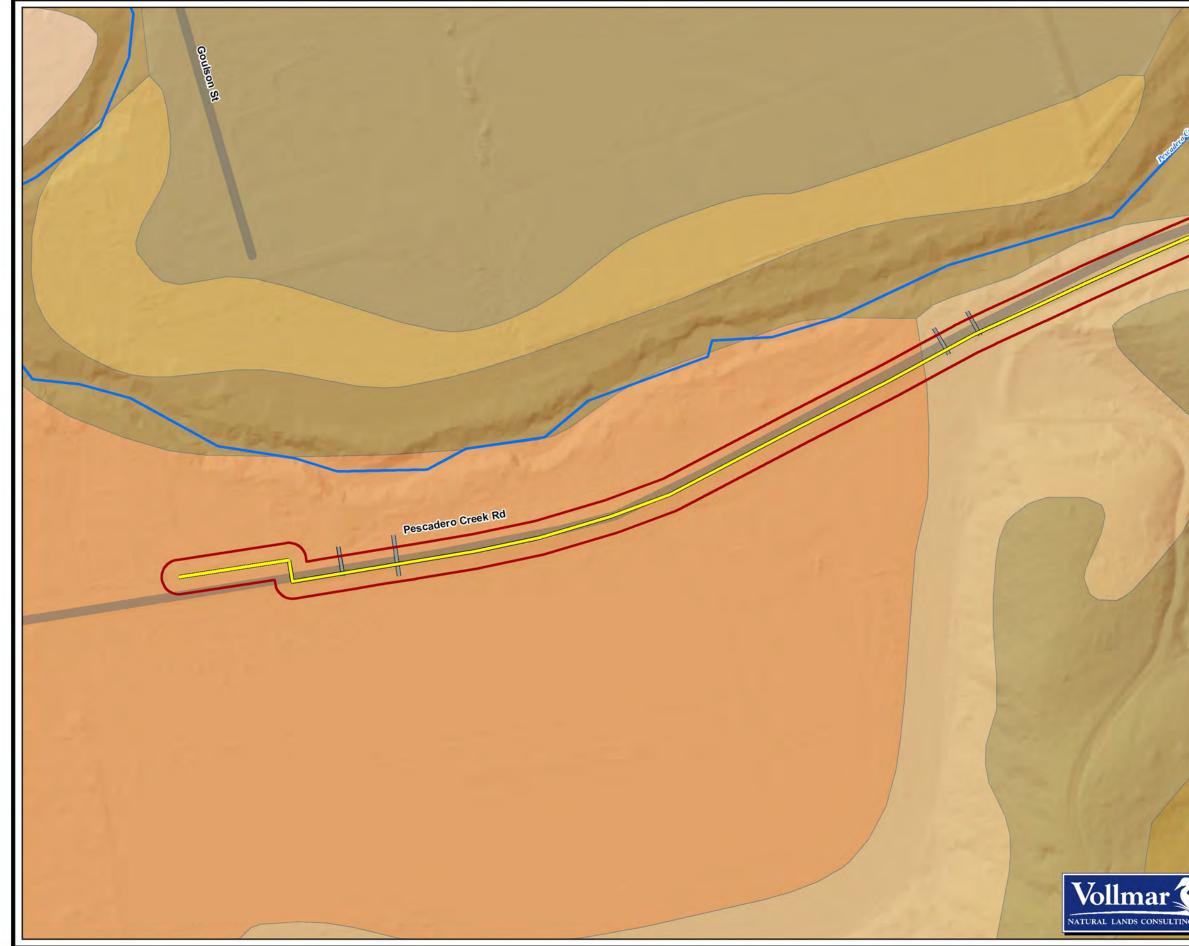
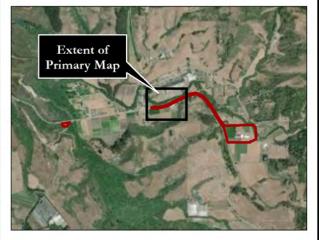


FIGURE 3b Topography and Soil Units

CSA-11 Water Service Extension and Pescadero Fire Station (Station 59) Projects San Mateo County, California

- Project and Study Area (39.306 ac)
- Road
- Proposed Pipe Alignment
- Existing Water Conveyence Structures
- Stream





1:2,000 (1 in. = approx. 166 feet at tabloid layout) 25 100 50 Meters Feet 150 75 300 0

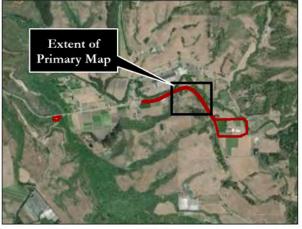
Data Sources: LSA, 2017 | TIGER, 2012 | DWR, 2001 GGNRA, 2020 | ESRI/DigitalGlobe, 2019 GIS/Cartography by: Ivy Poisson, Jan. 2021 Map File: 484_Soils_B-P_2021-0517.mxd



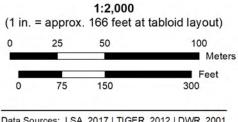
FIGURE 3c Topography and Soil Units

CSA-11 Water Service Extension and Pescadero Fire Station (Station 59) Projects San Mateo County, California

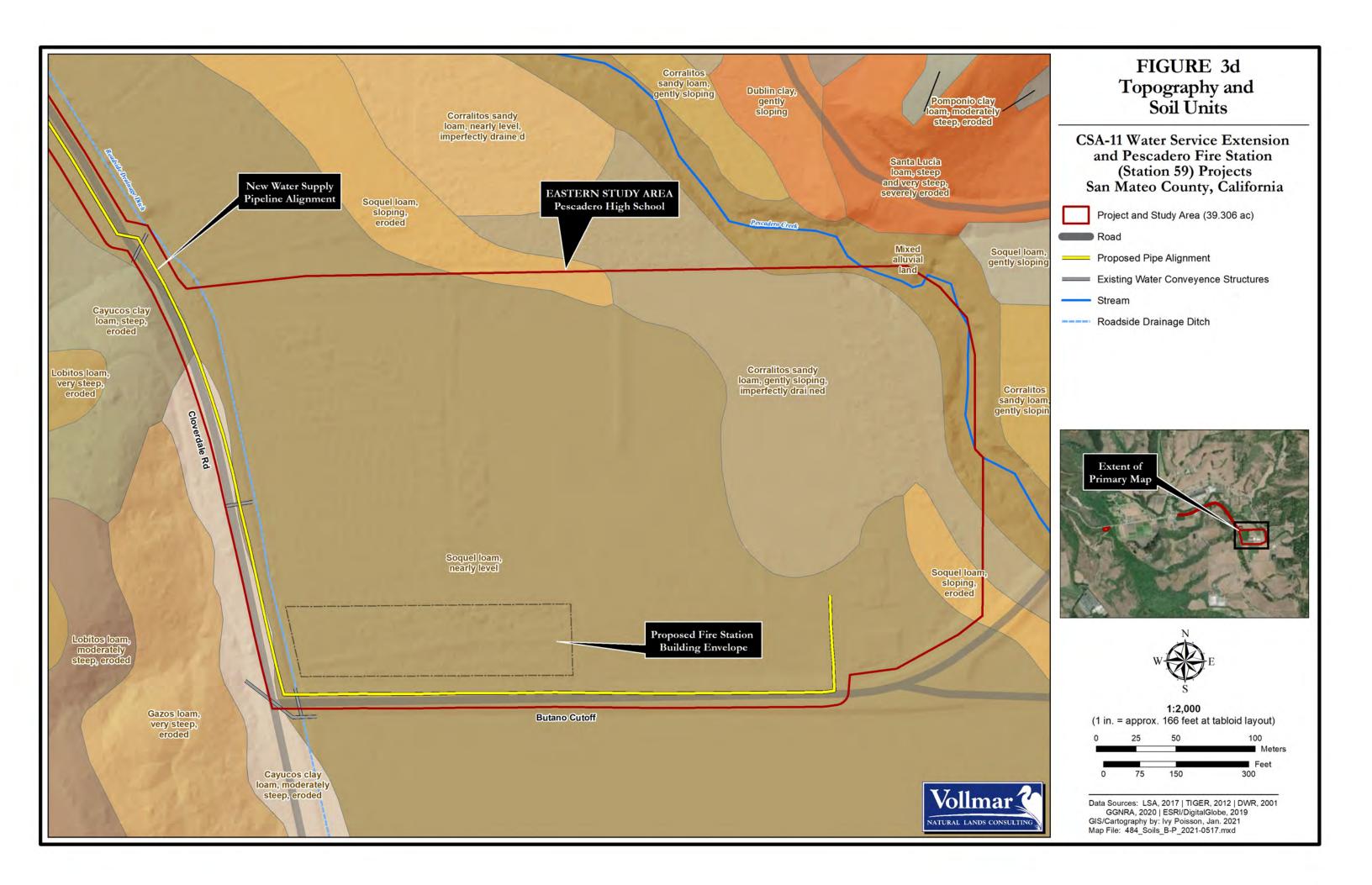
Project and Study Area (39.306 ac)
 Road
 Proposed Pipe Alignment
 Existing Water Conveyence Structures
 Stream
 Roadside Drainage Ditch







Data Sources: LSA, 2017 | TIGER, 2012 | DWR, 2001 GGNRA, 2020 | ESRI/DigitalGlobe, 2019 GIS/Cartography by: Ivy Poisson, Jan. 2021 Map File: 484_Soils_B-P_2021-0517.mxd



5.0 RESULTS

5.1 Overview

Within the 39.306-acre Study Area, the delineation identified a total of 2.123 acres of potentially jurisdictional wetlands. This includes 0.204 acre of emergent channel and 1.919 acre of riparian habitat. These features were determined to be outside of the building envelope for the fire station, and outside of the proposed pipeline alignment.

Table 2 below lists each of these habitat types, and all features are mapped on **Figure 4d**, which also provide acreage values for the individual features. General conditions, as well as vegetation, soil, and hydrology indicators of each wetland feature type are described below. **Appendix A** provides representative photographs of the habitats, and **Appendix B** presents the delineation data forms, of which there are 5, that were recorded throughout the Study Area.

	Cowardin									
Habitat Type	Code	Army Corps	CDFW	RWQCB	CCC	Acreage				
Wetlands										
Riparian Habitat	R5	Х	Х	Х	Х	1.919				
Emergent Channel	PEM1Ed	X		X	X	0.204				
					TOTAL	2.123				

TABLE 2. Acreage of Mapped Potential Jurisdictional Waters

5.2 Potential Jurisdictional Waters

5.2.1 Riparian Habitat

Feature RP01. This feature is 1.191 acre, and is habitat associated with Pescadero Creek located in the northeastern corner of the Pescadero High School property (see **Figure 4d**). Pescadero Creek is a perennial stream with a canopy of mature riparian vegetation and steep banks, approximately 10-20 feet from top of bank to the water level. The riparian habitat supported by Pescadero Creek features bed and bank topography and a semi-closed canopy with dense understory, consisting of a mix of both native and non-native plant species. Pescadero Creek flows in a northwesterly direction for 3.5 miles, then empties into the Pacific Ocean (a territorial sea). Delineation data points 01 and 02 are representative points for the riparian area, with point 01 representing upland conditions outside of the riparian habitat, and point 02 representing riparian habitat (**Figure 4d**).

The riparian corridor of Pescadero Creek is characterized by Arroyo willow (*Salix lasiolepis*, FACW) as a codominant species with Fremont's cottonwood (*Populus fremontii*). Species observed in the riparian understory include: cape ivy (*Delareia odorata*, FAC), poison hemlock (*Conium maculatum*, FAC), and giant horsetail (*Equisetum telmateia*, FACW). Some weedy upland species were intermixed, and include wild radish (*Raphanus sativus*, UPL), ripgut brome (*Bromus diandrus*, UPL), and black mustard (*Brassica nigra*, UPL). California blackberry (*Rubus ursinus*, FACU) is also commonly seen in the understory.

The paired delineation points were taken within the Corralitos soil series (**Figure 3d**). Both sample points had the same soil characteristics: a color of 10Y 3/2, no redoximorphic features, no restrictive layers, clay loam texture, and uniform soil profile. No hydric soil indicators were observed for either delineation point.

No indicators of wetland hydrology were observed at either delineation point. However, since the Study Area is located in a Coastal Zone (as mentioned previously), only one parameter is needed to be considered a wetland; the presence of hydrophytic vegetation at point 02 satisfies this condition.

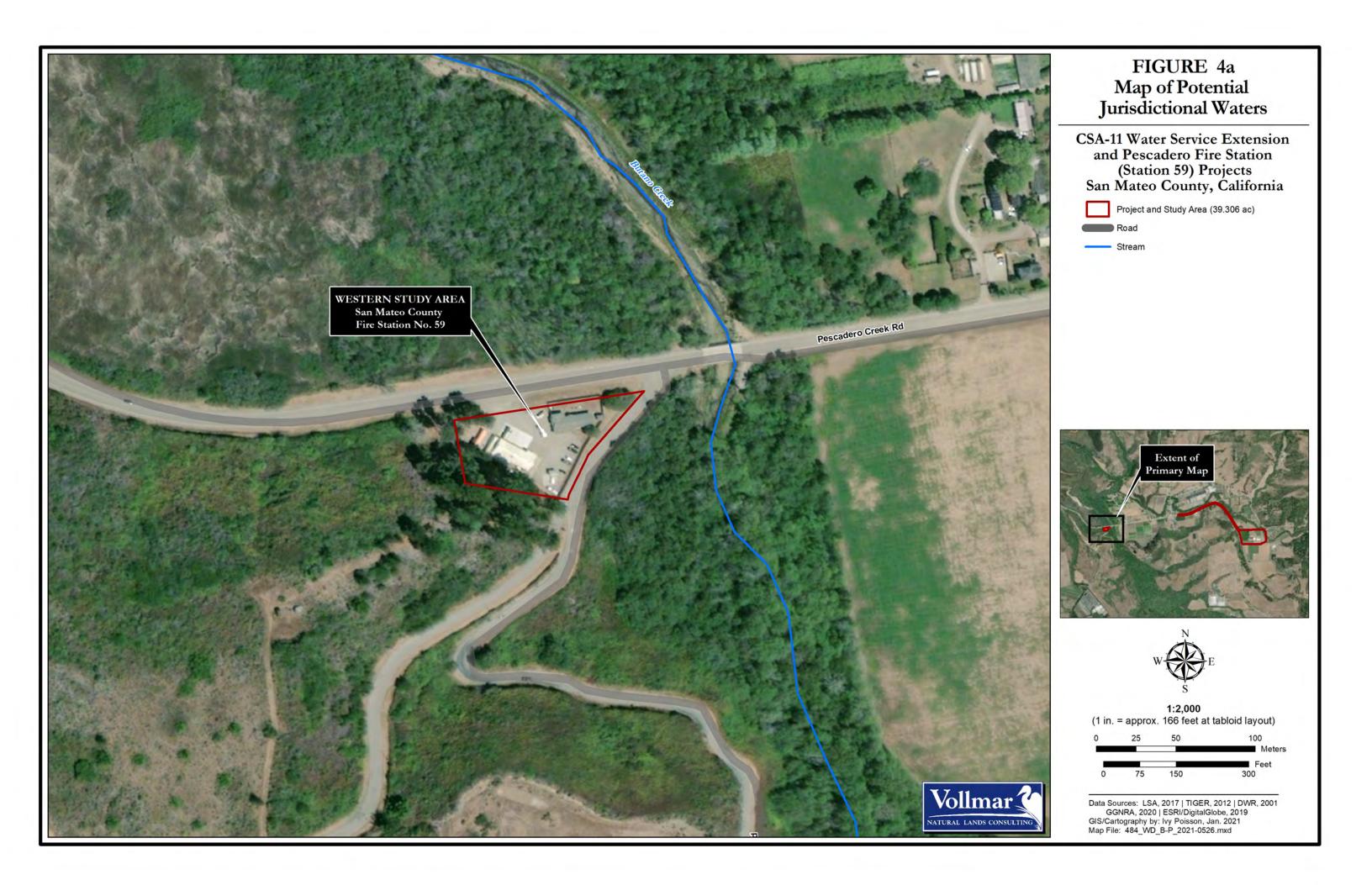




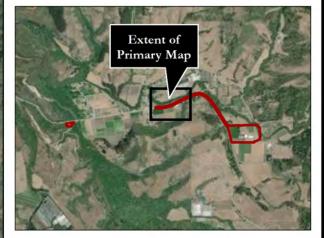
FIGURE 4b Map of Potential Jurisdictional Waters

CSA-11 Water Service Extension and Pescadero Fire Station (Station 59) Projects San Mateo County, California

Project and Study Area (39.306 ac)

Road

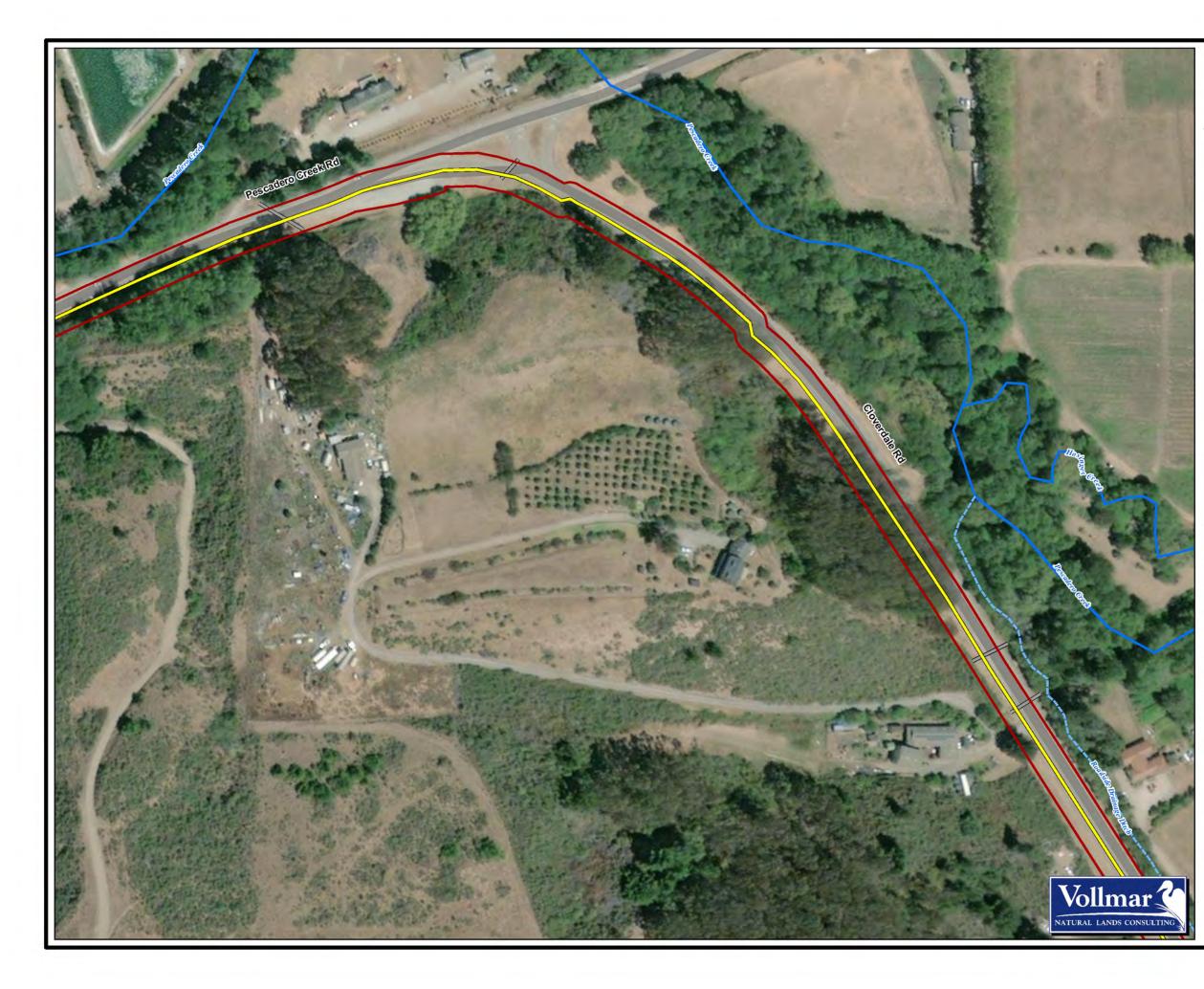
- Proposed Pipe Alignment
- Existing Water Conveyence Structures
 - Stream

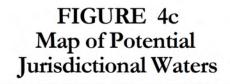




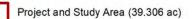
1:2,000 (1 in. = approx. 166 feet at tabloid layout) 100 25 50 Meters 150 300 75

Data Sources: LSA, 2017 | TIGER, 2012 | DWR, 2001 GGNRA, 2020 | ESRI/DigitalGlobe, 2019 GIS/Cartography by: Ivy Poisson, Jan. 2021 Map File: 484_WD_B-P_2021-0526.mxd





CSA-11 Water Service Extension and Pescadero Fire Station (Station 59) Projects San Mateo County, California



Road

Proposed Pipe Alignment

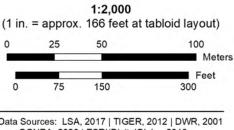
Existing Water Conveyence Structures

- Stream

Roadside Drainage Ditch

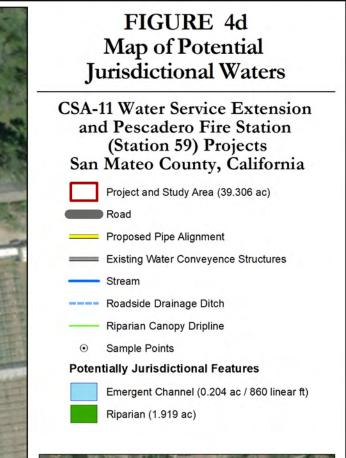






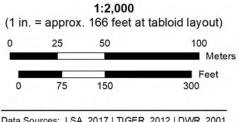
Data Sources: LSA, 2017 | TIGER, 2012 | DWR, 2001 GGNRA, 2020 | ESRI/DigitalGlobe, 2019 GIS/Cartography by: Ivy Poisson, Jan. 2021 Map File: 484_WD_B-P_2021-0526.mxd











Data Sources: LSA, 2017 | TIGER, 2012 | DWR, 2001 GGNRA, 2020 | ESRI/DigitalGlobe, 2019 GIS/Cartography by: Ivy Poisson, Jan. 2021 Map File: 484_WD_B-P_2021-0526.mxd Tributaries are categorically listed as waters of the United States according to the 2020 Navigable Waters Protection Rule. Feature RP01 is likely to fall under Army Corps jurisdiction since Pescadero Creek contributes surface water to the Pacific Ocean, a territorial sea. Pescadero Creek would be classified as a perennial/intermittent stream, or tributary. Feature RP01 is also potentially considered a Water of the State by CDFW, RWQCB, and CCC.

5.2.2 Emergent Channel

Feature EC01. This feature is part of the roadside drainage ditch that connects to Pescadero Creek approximately ¹/₄ mile north of the high school (see **Figure 4c** and **4d**). Delineation data point 05 represents the emergent channel habitat and point 04 is the paired upland point.

This feature supports emergent wetland species, with cattails (*Typha latifolia*, OBL) being dominant throughout the channel. Common rush (*Juncus effusus*, FACW) and giant horsetail was also observed to be growing in the channel, higher up along the edge of the feature.

Points 04 and 05 were taken within the Soquel soil series (**Figure 3d**). Point 05, located within the emergent channel, featured yellower soils, colored at 2.5YR 3/1. In contrast, the soil at point 04 was 10YR 2/1. The soil sample collected at the wetland point (Point 05) also contained higher organic materials; the soil was textured as mucky clay loam. This is also the only sample point within the Study Area that had hydric soil indicators: histosol (A1), black histic (A3), and hydrogen sulfide (A4). Both soil samples featured no redoximorphic features, no restrictive layers, and had a uniform soil profile.

Wetland hydrology indicators observed at point 05 include High Water Table (A2), Saturation (A3), Hydrogen Sulfide Odor (C1) as primary indicators, with Geomorphic Position (D2) as secondary indicator.

Three out of three hydric indicators (vegetation, soils, and hydrology) were present for this feature, which satisfies the one-parameter wetland definition for features in Coastal Zones.

This feature is potentially a Water of the U.S. under Army Corps jurisdiction, since this conveys surface water to Pescadero Creek, which is also potentially a water of the U.S. as described above. While ditches are typically categorically excluded as waters of the U.S., the exception is if there the ditch has water flowing more than in direct response to a single precipitation event in a typical year, which is the case for feature EC01. Since there was saturation and high water table observed within this channel (during a drier than normal year), it is reasonable that there would be intermittent surface water flow in a typical year. This feature is also potentially a Water of the State under RWQCB and CCC jurisdiction.

5.2.3 Upland Agricultural Features

Upland agricultural features are located on a field that gently slopes down towards the west, in the direction of the roadside drainage ditch. At the time of the site visit, these features were located on a recently tilled/fallow field, on a rosemary field, and on a field that was planted with fava beans (*Vicia faba*). A review of historical aerial imagery shows that this area is routinely disturbed as part of the ongoing agricultural operations. Delineation data point 03 is a representative point for this feature type (particularly: soils and hydrology), and this point was taken within the building envelope for the fire station.

The vegetation at point 03 is representative of cultivated/disturbed conditions, located approximately halfway across the proposed building envelope for the fire station. Species observed include fava bean (UPL), growing with other species characteristic of disturbed habitats like scarlet pimpernel (*Lysimachia arvensis*, FAC) and mustard (*Brassica nigra*, UPL). This point does not support wetland vegetation.

Point 03 was taken within the Soquel soil series (**Figure 3d**). The soil was textured to be silty clay loam, had a color of 10Y 2/1, had no redoximorphic features, had no restrictive layers, and had a uniform soil profile. No hydric soil indicators were observed.

At the time of the site visit (both on December 7, 2020 and May 7, 2021), there were no indications of direct-surface water connection from the agricultural features to the emergent channel feature to the west; these features are separated by an at-grade, unpaved roadway. Overall, there were no hydric indicators (vegetation, soils, and hydrology) present for these agricultural features.

This is an upland feature that would likely not be subject to federal, state, or county jurisdiction.

5.3 Summary

All 2.123 acres of wetlands identified within the 36.306-acre Study Area are potentially jurisdictional Waters of the U.S.; this consists of 1.919 acre of riparian habitat and 0.204 acre of emergent channel (see **Section 5.1, Table 2**). Waters of the U.S. delineated within the Study Area would be regulated by the ACOE under Section 404 of the Clean Water Act. The riparian habitat would also be regulated under Section 10 of the Rivers and Harbors Act.

These features are also potentially under state jurisdiction, with the riparian habitat potentially regulated by CDFW, RWQCB, and CCC. The emergent channel is potentially regulated by RWQCB and CCC.

The results of this delineation are preliminary and must be reviewed and verified in writing by the ACOE to be considered an official delineation.

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APPENDIX A:

REPRESENTATIVE PHOTOGRAPHS OF THE STUDY AREA (Recorded May 7, 2021)

Representative Photographs of the Study Area



Point 01, facing south-southeast. Point 02 is located to the left of shovel, within riparian canopy.



Point 03, facing southwest, located within fava bean field.

Representative Photographs of the Study Area



Point 04, facing west. Cloverdale Road is shown in the background, with emergent channel in the middle of the photo, and upland edge of channel in the foreground (comprised of California blackberry).



Point 05, facing west. Pure stand of cattails growing in emergent channel.

Representative Photographs of the Study Area



Giant horsetail growing among upland plant species, in an upland area outside of the Pescadero Creek riparian corridor. This photo was taken in an area that was not subject to recent soil/veg disturbance, and may represent mesic, but not wetland, conditions. Equisetum species are known to colonize disturbed areas and may be weedy, indicating that it may not be the best indicator for wetland, particularly if it's the only wetland species occurring.

APPENDIX B:

WETLAND DELINEATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site:	Pesca	dero Pipelin	e & F	ire Station	City/C	county:	Pescad	ero, San N	lateo Co	Samp	ling Date:	May 7,	2021			
Applicant/Owr	ner:	Pescadero Un	ified S	chool District, Cit	y of Pesc	adero	State:	CA	Sampling F	Point:	01					
Investigator(s)	: Iv	y Poisson,	VNL	_C	Se	ection, T	ownship,	Range:	S11, T088	S, R05V	V					
Landform (hills	slope, t	errace, etc	:.):	terrace		Lo	cal relief	(concave	, convex, no	one):	none		Slope (%)	: ()%	
Subregion (LF	R):	А			Lat:	41225	72	Long:	556472		Datum:	NAD 83	3			
Soil Map Unit	Name:	Corrali	tos s	andy loam, g	ently sl	loping, in	nperfectly	/ drained	NW	/I classi	fication:	None				
Are climatic / I	nydrolo	gic conditi	ons c	on the site typ	oical for	r this time	e of year	? Yes	No >	(If no	, explain in	Remarks	s.)			
Are Vegetation	า	, Soil		, or Hydrolo	gy	signif	ficantly di	sturbed?	Are "Nor	mal Ciro	cumstances	" present	? Yes	Х	No	
Are Vegetation	n	, Soil		, or Hydrolo	ду	natur	ally probl	ematic?	(If	needeo	l, explain an	y answe	rs in Rema	arks.))	

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

Hydrophytic Vegetation Present?	Yes	No	Х			
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area within a Wetland?	Yes	<u>No X</u>
Wetland Hydrology Present?	Yes	No	Х			

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Remarks: Second consecutive year of drier than normal conditions. Point located outside of riparian area/top of bank; paired upland point for sampling point 02. Undisturbed area compared to adjacent fallow fields that have been mowed recently.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test	t works	heet:		
<u>Tree Stratum</u> (Plot size:) 1	<u>% Cover</u>	Species?	<u>Status</u>	Number of Domir That Are OBL, F/			1	(A)
2 3				Total Number of Species Across A			2	(B)
4				Percent of Domir That Are OBL, F/			50%	(A/B)
	0	= Total Cov	er					
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde	x work	sheet:		
1 /				Total % Cover of	:	Multipl	y by:	
2.				OBL species	0	x 1 =	0	
3.				FACW species	5	x 2 =	10	
4.				FAC species	45	x 3 =	135	
5				FACU species	1	x 4 =	4	
	0	= Total Cov	er	UPL species	39	x 5 =	195	
Herb Stratum (Plot size: 5 ft)				Column Totals:	90	(A)	344	(B)
1. Conium maculatum	40	Y	FAC	Column Potalo.	00	(,,)	011	(2)
2. Brassica nigra	20	Y	UPL	Prevalence Index	(= B/A	=	3.82	
3. Silybum marianum	10	Ν	UPL					
4. Raphanus sativus	5	N	UPL	Hydrophytic Ve	getatior	n Indica	tors:	
5. Equisetum telmateia	5	Ν	FACW	1 - Rapid Tes	t for Hyd	drophyti	c Vegeta	tion
6. Festuca perennis (Lolium perenne)	5	N	FAC	2 - Dominanc	e Test is	s >50%		
7. Bromus diandrus	4	N	UPL	3 - Prevalence				
8. Melilotus indicus	1	N	FACU	4 - Morpholog				
9				data in Rema				et)
10				5 - Wetland N				(F
11				Problematic H	iyaropn	ytic veg	etation' (Explain)
Woody Vine Stratum (Plot size:)	90	= Total Cov	er	¹ Indicators of hyc be present, unles				
1								
2				Hydrophytic				
% Bare Ground in Herb Stratum 10		= Total Cov	er	Vegetation	Yes	N	lo <u>X</u>	
Remarks:				1				
Ruderal venetation characteristic of disturbed areas	Vegetation a	nnears to he t	ha laget dietu	rhad near this surve	v plot w	hich is y	why this y	1/26

Ruderal vegetation characteristic of disturbed areas. Vegetation appears to be the least disturbed near this survey plot, which is why this was selected as representative point.

SOIL							Sampling Point	: 01
	• •	to the depth				firm the	absence of indicators.)	
Depth (inchos)	Matrix Color (moist)	%	Color (moist)	Redox Feat %	tures Type ¹	Loc ²	Texture	Pomorko
(inches)	<u>. </u>			70	Туре	LUC		Remarks
0-18"	10YR 3/2	100					clay loam	friable soils
					·			
		·			. <u> </u>		·	
					·		- <u> </u>	·
¹ Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, CS	=Covered o	r Coated San	d Grains.	² Location: PL=Pore	Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	cable to all I	PPs unless other	rwise noter	1)	Inc	licators for Problemation	e Hydric Soils ³ :
-)	inc		c riyuric sons .
Histoso	· · /		Sandy Redox (Standard Matrix (Standard Matrix))				2 cm Muck (A10) Red Derest Material (TI	E2)
	pipedon (A2) istic (A3)		Stripped Matrix (Loamy Mucky Mi		excent MI RA	<u> </u>	Red Parent Material (TI Very Shallow Dark Surf	
	en Sulfide (A4)		Loamy Gleyed M		oxeept minim	•••	Other (Explain in Rema	
Deplete	d Below Dark Surfac	;e (A11)	Depleted Matrix ((F3)				,
	ark Surface (A12)		Redox Dark Surf				³ Indicators of hydrophy	tic vegetation and
	Mucky Mineral (S1)		_ Depleted Dark S				wetland hydrology mus	
Sandy C	Gleyed Matrix (S4)		_ Redox Depression	ns (F8)	[unless disturbed or pro	biematic
Restrictive La	yer (if present):							
_	ione				Hydric Soil	Present?	Yes	No X
Depth (incl				<u> </u>	ingane con	i resent.		
Remarks:				I				
	izon throughout 18" s	soil profile. E	xpected of disturbed	d/developec	site with pote	ential impo	orted fill.	
	Ū							
HYDROLOG								
Wetland Hydr	ology Indicators: tors (minimum of one	o roquirod: ol	and all that apply)			Soor	ndary Indiantara (2 ar m	oro required)
		e required, cr	Water-Staine	d Leaves (F	(except		ondary Indicators (2 or m Vater-Stained Leaves (B	
Surface Wa	ater (A1)		MLRA 1, 2, 4				A, and 4B)	o) (iii 2 i 0 (ii, 2 ,
High Water	Table (A2)		Salt Crust (B	11)			Drainage Patterns (B10)	
Saturation			Aquatic Inver	tebrates (B1	13)		Dry-Season Water Table	
Water Mark	ks (B1)		Hydrogen Su			5	Saturation Visible on Aeri	ial Imagery (C9)
Sediment [Deposits (B2)		Oxidized Rhiz Roots (C3)	zospneres a	along Living	c	Geomorphic Position (D2)
Drift Depos			Presence of F	Reduced Irc	on (C4)		Shallow Aquitard (D3))
D D op oo			Recent Iron F					
Algal Mat o	or Crust (B4)		Soils (C6)			F	AC-Neutral Test (D5)	
			Stunted or St	ressed Plan	nts (D1)	-		(
Iron Depos	its (B5) il Cracks (B6)		(LRR A) Other (Explai	n in Pomorl	(0)		Raised Ant Mounds (D6) Frost-Heave Hummocks	
	Visible on Aerial Ima	aery (B7)			(5)	r		(07)
	egetated Concave S	0,0,0						
		()						
Field Observa	ations:							
Surface Water			X Depth (inches):					
Water Table P	resent? Yes	No 2	X Depth (inches):	N/A	Wetl	and Hydr	ology Present? Yes	No X

(includes capillary fringe)	Yes	No X	Depth (inches):	N/A	
Describe Recorded Data (stre	eam gauge	, monitorin	g well, aerial photo	s, previous inspec	ctions), if available:
None					

Remarks:

No wetland hydrology indicators observed

Saturation Present?

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site:	Pescad	ero Pipelin	ne & F	ire Station	City/C	County:	Pescad	ero, San M	lateo Co	Samp	ling Date:	May 7,	2021			
Applicant/Owr	ier: Pe	escadero Un	nified S	chool District, Cit	ty of Pes	cadero	State:	CA	Sampling F	Point:	02					
Investigator(s): Ivy Poisson, VNLC Section, Township, Range: S11, T08S, R05W																
Landform (hills	slope, te	rrace, etc	:.):	hillslope		Lo	cal relief	(concave	, convex, no	one):	convex		Slope (%)):	1-3%	
Subregion (LF	₹R):	A			Lat:	41225	74	Long:	556477		Datum:	NAD 8	3			
Soil Map Unit	Name:	Corrali	tos s	andy loam, g	ently s	sloping, ir	nperfectly	/ drained	NW	/I classif	fication:	None				
Are climatic / I	nydrolog	ic conditi	ons c	on the site typ	oical fo	or this tim	e of year	? Yes	No >	K (lf no	, explain in	Remarks	s.)			
Are Vegetation	n	, Soil		, or Hydrolo	gy	signi	ficantly di	sturbed?	Are "Nor	rmal Circ	cumstances	" present	? Yes	Х	No	
Are Vegetation	n	, Soil		, or Hydrolo	gy	natur	ally probl	ematic?	(If	needed	l, explain ar	ny answe	rs in Rema	arks	.)	

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

Hydrophytic Vegetation Present?	Yes X	No					
Hydric Soil Present?	Yes	No	X	Is the Sampled Area within a Wetland?	Yes	Х	No
Wetland Hydrology Present?	Yes	No	X		-		

Remarks: Point located just within the edge of the riparian canopy drip line. Hydric soil and wetland hydrology indicators not observed; however, this satisfies the one-parameter wetland for coastal zones because of the presence of wetland vegetation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 25 ft 3 1. Salix lasiolepis 80 Y FACW Total Number of Dominant Species 2. Total Number of Dominant Species 3. 4. 3. 3. 3. 3. 3. 2. 3. 3.		Absolute	Dominant	Indicator	Dominance Test worksheet:
2. Total Number of Dominant 3. 2 (B) 3.					
3.		80	Y	FACW	
4.				-	
Sapling/Shrub Stratum (Plot size:) 1.	4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:) 1.					That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
Statum (Plot size:) 1.		80	= Total Cove	er	
2.	Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
2. OBL species 0 x 1 = 0 3.	1				Total % Cover of: Multiply by:
4.	2				OBL species 0 x 1 = 0
5.					FACW species 5 x 2 = 10
0 = Total Cover UPL species 16 x 5 = 80 1 Delairea odorata 30 Y FAC Prevalence Index = B/A = 3.41 2. Conium maculatum 20 Y FAC Prevalence Index = B/A = 3.41 3. Bromus diandrus 10 N UPL Hydrophytic Vegetation Indicators: 5. Raphanus sativus 5 N UPL 1 Reguisetum telmateia 6. Rubus ursinus 4 N FACU X 2 Dominance Test is >50% 7. Brassica nigra 1 N UPL 3 Prevalence Index is \$3.0^1 8.	4				FAC species 50 x 3 = 150
Herb Stratum (Plot size: 5 ft) 1. Delairea odorata 2. Conium maculatum 3. Bromus diandrus 10 N 4. Equisetum telmateia 5. N 6. Rubus ursinus 6. Rubus ursinus 7. Brassica nigra 9. 1 10. UPL 11. N 12. UPL 13. Bromus diandrus 14. N 15. Raphanus sativus 5. N 14. N 15. Rubus ursinus 16. Rubus ursinus 17. Brassica nigra 18. 1 9. 1 10. 1 10. 1 10. 1 10. 1 10. 1 10. 1 11. 1 12. 0 13. Prevalence Index is 53.0 ¹	5				FACU species <u>4</u> x 4 = <u>16</u>
1. Delairea odorata 30 Y FAC Column Totals: //s (A) 256 (B) 2. Conium maculatum 20 Y FAC Prevalence Index = B/A = 3.41 3. Bromus diandrus 10 N UPL Prevalence Index = B/A = 3.41 4. Equisetum telmateia 5 N FACW Hydrophytic Vegetation Indicators: 5. Raphanus sativus 5 N UPL 1 - Rapid Test for Hydrophytic Vegetation 6. Rubus ursinus 4 N FACU X 2 - Dominance Test is >50% 7. Brassica nigra 1 N UPL 3 - Prevalence Index is ≤3.0' 8.		0	= Total Cove	er	UPL species <u>16</u> x 5 = <u>80</u>
2. Conium maculatum 20 Y FAC Prevalence Index = B/A = 3.41 3. Bromus diandrus 10 N UPL Hydrophytic Vegetation Indicators: 4. Equisetum telmateia 5 N FACW Hydrophytic Vegetation Indicators: 5. Raphanus sativus 5 N UPL 1 Prevalence Index = B/A = 3.41 6. Rubus ursinus 5 N UPL 1 Prevalence Index is >50% 7. Brassica nigra 1 N UPL 3 Prevalence Index is \$3.01 8. 1 N UPL 3 Prevalence Index is \$3.01 9. 4 Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 5 Wetland Non-Vascular Plants1 10. 5 Fact Over Problematic Hydrophytic Vegetation1 (Explain) 1 11. 75 = Total Cover Hydrophytic vegetation functional text or problematic. 12. 0 = Total Cover Hydrophytic Vegetation Present? Yes X No 20. 0 = Total Cover Hyd	/				Column Totals: 75 (A) 256 (B)
3. Bromus diandrus 10 N UPL 4. Equisetum telmateia 5 N FACW 5. Raphanus sativus 5 N UPL 6. Rubus ursinus 4 N FACU X 2 - Dominance Test is >50% 7. Brassica nigra 1 N UPL 3 - Prevalence Index is ≤3.01 8. 1 N UPL 3 - Prevalence Index is ≤3.01 9. 1 N UPL 3 - Prevalence Index is ≤3.01 10. 1 N UPL 3 - Prevalence Index is ≤3.01 9. 1 1 N UPL 3 - Prevalence Index is ≤3.01 10. 10. 1 1 N UPL 3 - Prevalence Index is ≤3.01 11. 10. 10. 10. 10. 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation1 (Explain) 11. 75 = Total Cover 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. 0 = Total Cover Yegetation Yegetation Yegetation <td></td> <td></td> <td></td> <td></td> <td></td>					
4. Equisetum telmateia 5 N FACW Hydrophytic Vegetation Indicators: 5. Raphanus sativus 5 N UPL 1 Rapid Test for Hydrophytic Vegetation 6. Rubus ursinus 4 N FACU X 2 Dominance Test is >50% 7. Brassica nigra 1 N UPL 3 Prevalence Index is ≤3.01 8. 1 N UPL 3 Prevalence Index is ≤3.01 9. 10. 4 Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 5 Vetland Non-Vascular Plants1 11. 75 = Total Cover * * * * Woody Vine Stratum (Plot size:) * * * * * 2.					Prevalence Index = B/A = 3.41
5. Raphanus sativus 5 N UPL 1 - Rapid Test for Hydrophytic Vegetation 6. Rubus ursinus 4 N FACU X 2 - Dominance Test is >50% 7. Brassica nigra 1 N UPL 3 - Prevalence Index is \$3.01 8. 1 N UPL 3 - Prevalence Index is \$3.01 9. 1 A Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 10. 5 Wetland Non-Vascular Plants1 11. 75 = Total Cover Woody Vine Stratum (Plot size:) - 1.					Hydrophytic Vegetation Indicators:
6. Rubus ursinus 4 N FACU X 2 - Dominance Test is >50% 7. Brassica nigra 1 N UPL 3 - Prevalence Index is ≤3.01 8.					
7. Brassica nigra 1 N UPL 3 - Prevalence Index is ≤3.0 ¹ 8.	<u> </u>			-	
8.					
9.		I	IN	UL	
10.					
11.	10				5 - Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size:) 1. 2. % Bare Ground in Herb Stratum 25 Remarks:					Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) be present, unless disturbed or problematic. 1.		75	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must
2. 0 = Total Cover Hydrophytic Vegetation Present? Yes X No % Bare Ground in Herb Stratum 25 Yes X No	Woody Vine Stratum (Plot size:)				
2. 0 = Total Cover Hydrophytic Vegetation Present? Yes X No % Bare Ground in Herb Stratum 25 Yes Yes X No	1				
0 = Total Cover Vegetation Present? Vegetation Yes X No					Lhudron hudio
% Bare Ground in Herb Stratum 25 Present? Yes X No Remarks:		0	= Total Cove	er	
	% Bare Ground in Herb Stratum 25				
Survey plot is more representative of dry, outer edge of riparian habitat.	Survey plot is more representative of dry, outer edge	of riparian ha	aditat.		

SOIL							Sar	npling Point:		02
	cription: (Describe Matrix	to the dept	th needed to docum	ent the ind Redox Feat		nfirm the a	absence of	indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	cture	Re	marks
0-18"	10YR 3/2	100					clay lo	am	friable	e soils
								<u> </u>		
<u> </u>										
<u> </u>										
¹ Type: C=C	oncentration, D=Dep	letion, RM=	=Reduced Matrix, CS=	=Covered o	r Coated Sar	nd Grains.	² Locatior	: PL=Pore L	ining, N	1=Matrix.
Hydric Soi	I Indicators: (Applic	able to all	I LRRs, unless other	wise noted	I.)	Ind	icators for	Problematic	Hydric	; Soils³:
Histoso	()	_	Sandy Redox (S5				2 cm Muck			
	Epipedon (A2) Histic (A3)	_	Stripped Matrix (S Loamy Mucky Min		except MLP	A 1)		Material (TF		12)
	en Sulfide (A4)		Loamy Gleyed M			~ ')		lain in Remar		12)
	ed Below Dark Surfac	e (A11)	Depleted Matrix (0			
	Dark Surface (A12) Mucky Mineral (S1)	_	Redox Dark Surfa					of hydrophyti drology must		
	Gleyed Matrix (S4)	_	Redox Depressio					urbed or prob		
Destriction 1										
	ayer (if present):				Undria Cai	Dressmt?	Yes		No	х
Type: <u>r</u> Depth (inc	none hes): N/A				Hydric Soi	i Present?	res			<u> </u>
Remarks:				I						
	found at point 01. Un	iform soil h	orizon throughout 18"	' soil profile.	. Expected of	f disturbed/	developed s	site with poter	ntial imp	ported fill.

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; c	heck all that apply)	Secondary Indicators (2 or more required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) 	heck all that apply) Water-Stained Leaves (B9) (exco MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
	X Depth (inches): <u>N/A</u> X Depth (inches): <u>N/A</u>	Wetland Hydrology Present? Yes NoX
(includes capillary fringe) Yes No	X Depth (inches): <u>N/A</u>	
Describe Recorded Data (stream gauge, monitor None	ring well, aerial photos, previous inspect	ions), if available:
Remarks: No wetland hydrology indicators observed.		

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site:	Pesca	dero Pipelin	ie & F	ire Station	City/C	County:	Pescad	ero, San N	lateo Co	Samp	ling Date:	May 7,	2021			
Applicant/Own	ner:	Pescadero Un	ified S	chool District, Cit	y of Pes	cadero	State:	CA	Sampling P	oint:	03					
Investigator(s)	: Iv	y Poisson	, VNI	_C	S	ection, T	ownship,	Range:	S11, T085	S, R05V	/					
Landform (hill	slope, t	errace, etc	:.):	plain		Lo	cal relief	(concave	, convex, no	ne):	none		Slope (%)		1-3%	
Subregion (LF	RR):	А			Lat:	41225	02	Long:	556111		Datum:	NAD 8	3			
Soil Map Unit	Name:	Soque	l Ioar	n, nearly leve	el				NW	l classi	ication:	None				
Are climatic /	nydrolo	gic conditi	ons d	on the site typ	oical fo	or this tim	e of year	? Yes	No X	(If no	, explain in	Remark	s.)			
Are Vegetatio	n X	, Soil	Х	, or Hydrolo	gy	signif	ficantly di	sturbed?	Are "Nori	mal Ciro	cumstances	" presen	t? Yes	Х	No	
Are Vegetatio	n	, Soil		, or Hydrolo	ду	natur	ally probl	ematic?	(If	needeo	l, explain an	iy answe	ers in Rema	ırks.)	

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

Hydrophytic Vegetation Present?	Yes	N	o	X			
Hydric Soil Present?	Yes	N	o	X	Is the Sampled Area within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	N	o	X			

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Remarks: Second consecutive year of drier than normal conditions. Located in cultivated field consisting of fava beans (*Vicia faba*). Elevation is slightly higher on the eastern end of the cultivated field; the field slopes down towards the roadside drainage ditch.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 1 (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
	0	= Total Cove	er	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)				Total % Cover of: Multiply by:
1				$\frac{1}{\text{OBL species}} 0 \text{x 1} = 0$
2				
3				
4				FAC species $2 \times 3 = 6$
5	0	= Total Cove		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5 ft)	0		÷1	UPL species <u>18</u> x 5 = <u>90</u>
	16	Y		Column Totals: 20 (A) 96 (B)
1. <u>Vicia faba</u> 2. Lysimachia arvensis	<u>16</u> 2	ř N	UPL	Prevalence Index = $B/A = 4.8$
	2	N	FAC UPL	Prevalence index = $B/A = 4.6$
	2	IN	UPL	Hydrophytic Vegetation Indicators:
4				
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0 ¹
8				 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11		Tatal Oa		
	20	= Total Cove	e.	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				
2		Tatal Oa		Hydrophytic
	0	= Total Cove	er	Vegetation
% Bare Ground in Herb Stratum 80	_			Present? Yes No X
Remarks:	Visio fabol bi	باحصاصب المشابية	alant an asi	growing omong four boons. Doons mou he started as
Located in cultivated field consisting of fava beans (<i>vicia iaba),</i> bl	it with upland p	plant species	growing among fava beans. Beans may be planted as

cover crop/nitrogen fixer. Rosemary fields are located to the north. Vegetation is regularly disturbed for ag.

SOIL							Sampling Point:	03
		o the dept				onfirm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat		1 2	Tantana	Dever
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18"	10YR 2/1	100					silty clay loam	slightly blocky
			·					
			. <u> </u>					
		<u> </u>						
		otion PM-	Reduced Matrix, CS=	Covered e	r Cootod So	nd Croine	² Location: PL=Pore L	ining M-Matrix
Type. C=CC					i Cualeu Sa	nu Grains.		_ming, in=inatity.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	wise noted	i.)	Indi	icators for Problemation	: Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S5	5)			2 cm Muck (A10)	
Histic E	pipedon (A2)	_	Stripped Matrix (S				Red Parent Material (TF	-2)
	istic (A3)	_	Loamy Mucky Mir		except MLR		Very Shallow Dark Surfa	
	en Sulfide (A4)	- (111)	Loamy Gleyed Ma				Other (Explain in Rema	rks)
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Matrix (Redox Dark Surfa				3 lo all'a a tana a fi la raha a la rat	in
	Aucky Mineral (S1)	-	Depleted Dark Sulla				³ Indicators of hydrophyt wetland hydrology must	
	Gleved Matrix (S4)		Redox Depressio				unless disturbed or prot	
	,		<u> </u>	· · /			•	
Restrictive La	yer (if present):							
Type: n	one				Hydric So	il Present?	Yes	No X
Depth (inch	nes): N/A							
Remarks:								
	zon throughout 18" s	oil profile.	Expected of disturbec	d/developed	d site that is r	regularly tille	ed for crops. Soil was me	oist (not saturated)
below 2-4". Dark	soils may make det	ection of re	dox difficult; soil ped	was left ou	t for over 30	minutes and	d still no redox features	were observed.

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; cl	heck all that apply)	Secondary Indicators (2 or more required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) 	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	ept Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Water Table Present? Yes No Saturation Present? (includes capillary fringe) Yes No	X Depth (inches): N/A X Depth (inches): N/A X Depth (inches): N/A	Wetland Hydrology Present? Yes <u>No X</u>
Describe Recorded Data (stream gauge, monitor None	ing well, aerial photos, previous inspect	tions), if available:
Remarks: No wetland hydrology indicators observed. Samp	ble point located at slightly higher elevat	ion compared to paired wetland point.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site:	Pescad	lero Pipelino	e & Fire Station	City/Co	unty:	Pescade	ero, San N	lateo Co	Sa	ampling Date:	May 7,	2021		
Applicant/Owr	ner: P	escadero Uni	fied School District, Cit	ty of Pescad	lero	State:	CA	Samplir	ng Point	t: 04				
Investigator(s)	: Ivy	Poisson,	VNLC	Sec	tion, To	ownship,	Range:	S11, T	08S, R	05W				
Landform (hill	slope, te	errace, etc	.): channel		Loc	al relief	(concave	, convex	, none):	convex		Slope (%	6): (5-7%
Subregion (LF	R):	A		Lat:	412249	98	Long:	55606	0	Datum:	NAD 8	3		
Soil Map Unit	Name:	Soquel	loam, nearly leve	el					NWI cla	assification:	None			
Are climatic / I	nydrolog	ic conditio	ons on the site typ	oical for th	his time	e of year?	? Yes	No	Χ (lf no, explain ii	Remark	s.)		
Are Vegetatio	า	, Soil	, or Hydrold	gy	signifi	cantly dis	sturbed?	Are "I	Normal	Circumstance	s" presen	t? Yes	Х	No
Are Vegetatio	า	, Soil	, or Hydrolo	gy	natura	ally probl	ematic?		(If nee	eded, explain a	ny answe	ers in Ren	narks.)

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

Hydrophytic Vegetation Present?	Yes	No	Х			
Hydric Soil Present?	Yes	No	X	Is the Sampled Area within a Wetland?	Yes	<u>No X</u>
Wetland Hydrology Present?	Yes	No	X			
Remarks: Second consecutive year of	drier than norm	al con	ditions Poin	t taken at the edge of emergent channel feature		

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1.	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4.			_	Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
	0	= Total Cov	er	
Sapling/Shrub Stratum (Plot size:)	0			Prevalence Index worksheet:
1,				Total % Cover of: Multiply by:
2.	-			OBL species 5 x 1 = 5
3.				FACW species 12 x 2 = 24
4.				FAC species 0 x 3 = 0
5				FACU species 50 x 4 = 200
	0	= Total Cov	er	UPL species $5 \times 5 = 25$
Herb Stratum (Plot size: 5 ft)				Column Totals: 72 (A) 254 (B)
1. Rubus ursinus	50	Y	FACU	
2. Equisetum telmateia	10	Ν	FACW	Prevalence Index = B/A = 3.52
3. Typha latifolia	5	Ν	OBL	
4. Erodium cicutarium	5	Ν	UPL	Hydrophytic Vegetation Indicators:
5. Juncus effusus	2	Ν	FACW	1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0 ¹
8				4 - Morphological Adaptations ¹ (Provide supporting
9				data in Remarks or on a separate sheet)
10				5 - Wetland Non-Vascular Plants ¹
11				Problematic Hydrophytic Vegetation ¹ (Explain)
	72	= Total Cov	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				
2		Total Car		Hydrophytic
% Bare Ground in Herb Stratum 28	0	= Total Cov	ei	Vegetation Present? Yes No X
	_			
Remarks:				1
Although this survey plot indicates masis conditions	(processo of		DI planta) the	a dominance of Rubue urginus at the odge of the

Although this survey plot indicates mesic conditions (presence of FACW and OBL plants), the dominance of Rubus ursinus at the edge of the emergent ditch feature and indicates transition to upland.

Depth	Matrix			Redox Fea	tures		bsence of indicators.	,
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks
-18"	10YR 2/1	100				<u> </u>	silty clay loam	
						. <u> </u>		
						<u> </u>		
						. <u> </u>		
						. <u> </u>		
vpe: C=Cc	oncentration D=Dep	letion RM=	Reduced Matrix, CS	=Covered	or Coated Sa	nd Grains	² Location: PL=Pore	Lining M=Matrix
lydric Soil	Indicators: (Applie	cable to all	LRRs, unless other	rwise note	d.)	Indi	cators for Problemati	c Hydric Soils ³ :
Histosol	(A1)	_	Sandy Redox (S	5)		:	2 cm Muck (A10)	
	pipedon (A2)	_	Stripped Matrix (Red Parent Material (T	
	istic (A3)	_	Loamy Mucky Mi		(except MLR		Very Shallow Dark Sur	
	en Sulfide (A4)	—	Loamy Gleyed M			'	Other (Explain in Rema	arks)
	d Below Dark Surfac	e (A11)	Depleted Matrix					
	ark Surface (A12)	-	Redox Dark Surf				³ Indicators of hydrophy	
	Mucky Mineral (S1) Gleyed Matrix (S4)	_	Depleted Dark S Redox Depression				wetland hydrology mus unless disturbed or pro	
	Sleyeu Mallix (34)			JIIS (FO)	1			Diematic
strictivo I a	iyer (if present):							
							Yes	No X
	one nes): N/A				Hydric So	oil Present?	res	
Depth (inch	ies). <u>N/A</u>							
arks:								
recently dis	sturbed soils along th	ne top of dr	ain slope share same	e character	stics as soils	found at poi	ints 03 and 04.	
DROLOG	Y							
	Y ology Indicators: tors (minimum of one						idary Indicators (2 or m	

T finally indicators (minimu	III OI OIIE IEQUIIE	u, check a	in that apply/			Secondary indicators (2 of more required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6 Sparsely Vegetated Comparison 	s) erial Imagery (B7		MLRA 1, 2, 4A Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Roots (C3) Presence of Re Recent Iron Re Soils (C6)	b) ebrates (B13) de Odor (C1) ospheres along Liv educed Iron (C4) eduction in Tilled essed Plants (D1)	ving	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str None Remarks: No wetland hydrology indica			epth (inches): epth (inches): epth (inches): ell, aerial photos	N/A N/A N/A s, previous inspec		I Hydrology Present? Yes <u>No X</u> vailable:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site:	oject/Site: Pescadero Pipeline & Fire Station C		City/C	County: Pescadero, San Mateo Co			lateo Co	Sampling Date:		May 7,	2021					
Applicant/Owner: Pescadero Unified School District, City of Pescadero State: CA Sampling Point: 05																
Investigator(s): Ivy Poisson, VNLC Section, Township, Range: S11, T08S, R05W																
Landform (hill	slope, te	errace, etc	:.):	channel		Lo	cal relief	(concave	, convex, no	one):	concave		Slope (%): 1	-3%	
Subregion (LF	RR):	А			Lat:	41224	98	Long:	556058		Datum:	NAD 8	3			
Soil Map Unit	Name:	Soque	loan	n, nearly leve	el				NW	l classi	fication:	None				
Are climatic /	hydrolog	gic conditi	ons c	on the site typ	oical fo	or this tim	e of year	? Yes	No >	(If no	o, explain in	Remark	s.)			
Are Vegetatio	n	, Soil		, or Hydrolo	gy	signi	ficantly di	sturbed?	Are "Nor	mal Cir	cumstances	" presen	t? Yes	Х	No	
Are Vegetatio	n	, Soil		, or Hydrolo	ду	natur	rally probl	ematic?	(If	needeo	l, explain ar	ny answe	ers in Rem	arks.)		

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area within a Wetland?	Yes	Х	No
Wetland Hydrology Present?	Yes	Х	No		_		

Remarks: Second consecutive year of drier than normal conditions. Point taken within emergent channel in roadside ditch. Roadside ditch drains to Pescadero Creek, a TNW. Width of emergent channel is approx. 6-8 feet across.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksh	neet:	
Tree Stratum (Plot size:) 1.	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Spe That Are OBL, FACW, or		(A)
				Total Number of Dominar		()
				Species Across All Strata		(B)
				Percent of Dominant Spe		
4				That Are OBL, FACW, or	FAC: 100%	(A/B)
	0	= Total Cove	⊇r			
Sapling/Shrub Stratum (Plot size:)	0	- 10101 0010		Prevalence Index works	sheet:	
1 /				Total % Cover of:	Multiply by:	
2.				OBL species	x 1 =	
3.				FACW species	x 2 =	
4.				FAC species	x 3 =	
5				FACU species	x 4 =	
	0	= Total Cove	er	UPL species	x 5 =	
Herb Stratum (Plot size: 5 ft)				Column Totals:		(D)
1. Typha latifolia	90	Y	OBL		(A)	(B)
2.				Prevalence Index = B/A =	=	
3.						
4				Hydrophytic Vegetation	Indicators:	
5				1 - Rapid Test for Hyd	Irophytic Vegetat	tion
6				X 2 - Dominance Test is	s >50%	
7				3 - Prevalence Index i	is ≤3.0¹	
8				4 - Morphological Ada		
9				data in Remarks or or		et)
10				5 - Wetland Non-Vaso		
11				Problematic Hydrophy	/tic Vegetation' (Explain)
	90	= Total Cove	ər	¹ Indicators of hydric soil a		
Woody Vine Stratum (Plot size:)				be present, unless disturb	Sed of problemat	IC.
1						
2		T . 10		Hydrophytic		
	0	= Total Cove	ər	Vegetation		
% Bare Ground in Herb Stratum 10	_			Present? Yes	X No	
Remarks: Pure stand of cattails in emergent channel						
1						

SOIL							Sampling Point	05
	cription: (Describe	to the depti	n needed to docum	ent the in	dicator or	confirm the a	absence of indicators.)	
Depth	Matrix	·· ···		Redox Fea				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							mucky clay	
0-18"	2.5YR 3/1	100					loam	
	2101110,1							
								·
								·
		<u> </u>						
								·
		······						·
¹ Type: C=C	oncentration, D=Dep	letion, RM=I	Reduced Matrix, CS	=Covered	or Coated	Sand Grains.	² Location: PL=Pore	_ining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	PPs unloss other	rwiso noto	vd)	Ind	icators for Problematic	- Hydric Soils ³ :
Hydric Soli	indicators: (Applic	able to all	LRRS, unless other	wise note	÷a.)	ind	icators for Problemation	c Hydric Solis":
X Histoso	l (A1)		Sandy Redox (S	5)			2 cm Muck (A10)	
Histic E	pipedon (A2)		Stripped Matrix (S6)			Red Parent Material (TI	=2)
X Black H	listic (A3)		Loamy Mucky Mi		(except M		Very Shallow Dark Surf	
	en Sulfide (A4)		Loamy Gleyed N		(pe in	····,	Other (Explain in Rema	
	ed Below Dark Surfac	ο (Δ11) —	Depleted Matrix					
							3 mallanta di t	de constant de la c
	ark Surface (A12)		_ Redox Dark Surf		、		³ Indicators of hydrophy	tic vegetation and
	Mucky Mineral (S1)		Depleted Dark S	· · · ·)		wetland hydrology mus	
Sandy (Gleyed Matrix (S4)		Redox Depression	ons (F8)			unless disturbed or pro	olematic
Restrictive La	ayer (if present):							
_	none				Hydric	Soil Present?	Yes X	No
··					Tiyunc	Soli i resent:		
Depth (inc	hes): <u>N/A</u>				I			
Remarks:								
	licators observed.							
HYDROLOG	2V							
	rology Indicators:							
Primary Indica	ators (minimum of one	e required; c					ondary Indicators (2 or m	
			Water-Stain				Water-Stained Leaves (I	39) (MLRA 1, 2 ,
Surface V	Vater (A1)		(except ML	RA 1, 2, 4	A, and 4B)		4A, and 4B)	
X High Wate	er Table (A2)		Salt Crust (I	311)		X	Drainage Patterns (B10)	
X Saturation			Aquatic Inve	ertebrates	(B13)		Dry-Season Water Table	
Water Ma			X Hydrogen S				Saturation Visible on Ae	
			Oxidized Rh	izoenhoro	s along			
Codimont	Deposits (B2)				saiony	V	Geomorphic Desition (D	2)
			Living Roots		Inc. (0.4)		Geomorphic Position (D	<u>~)</u>
Drift Depo	osits (B3)		Presence of	Reduced	Iron (C4)		Shallow Aquitard (D3)	
			Recent Iron	Reduction	n in Tilled			
Algal Mat	or Crust (B4)		Soils (C6)				FAC-Neutral Test (D5)	
			Stunted or S	Stressed P	lants (D1)			
Iron Depo	osits (B5)		(LRR A)		. /		Raised Ant Mounds (D6) (LRR A)
	Soil Cracks (B6)		Other (Expla	ain in Rem	arks)		Frost-Heave Hummocks	
	n Visible on Aerial Im	agery (B7)			ianto)			(21)
Sparsely	Vegetated Concave							
Field Observa								
Surface Water	Present? Yes	No	X Depth (inches): <u>N/A</u>				
Water Table P	Present? Yes	X No	Depth (inches): 18"		Wetland Hyd	rology Present? Yes	X No
Saturation Pre						,		
(includes capil		X No	Depth (inches): 18"				
· ·	ded Data (stream ga				is increation	one) if availab	0.	
	ueu Dala (slieani ga	uge, monitor	ing weil, aeriai phot	us, previol	us inspectio	uns), ii availad	IC.	
None								
Remarks:								
	backfilling with water.	Steep/abru	ot change in topogra	nhv from i	upland noir	nt (05) to wetla	nd point (06)	
	sastaning with water.	2.000/00/01		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				