

Huffman-Broadway Group, Inc.

ENVIRONMENTAL REGULATORY CONSULTANTS

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October 18, 2024

Sent Via Email

Elizabeth Lacasia
Property Owner
Email: elacasia@gmail.com

Subject: Aquatic Resource Delineation Letter Report for a Residential Parcel at 779 San Carlos Avenue, El Granada, San Mateo County, California; APN No. 047-105-020

Dear Elizabeth Lacasia:

In response to a request by the County of San Mateo Coastside Design Review Committee to the Property Owner, Huffman-Broadway Group, Inc. (HBG) conducted a study to assess the potential of the property to support wetlands, as defined by the San Mateo County Local Coastal Program criteria.

In summary, based on the steep topography of the property, well drained nature of the soils, absence of hydric soil indicators, and lack of wetland hydrology, HBG determined the property does not support wetlands as defined by the San Mateo County Local Coastal Program.

Please refer to Exhibit 1 ARD Report for delineation methods and technical findings, and call or email me at 415.385.4106 or rperrera@h-bgroup.com if you have any questions or to schedule a site visit.

Sincerely,

Robert F. Perrera

Robert F. Perrera
Wetland Regulatory Scientist

Enclosures
Exhibit 1. ARD Report



Exhibit 1

ARD Report

AQUATIC RESOURCE DELINEATION

**779 San Carlos Avenue, El Granada
San Mateo County, California**



Prepared for

Elizabeth Lacasia
Property Owner
Email: elacasia@gmail.com

Prepared by

Huffman-Broadway Group, Inc.
ENVIRONMENTAL REGULATORY CONSULTANTS

1101 5th Avenue, Suite 205
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Contact: Robert F. Perrera
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October 2024

Huffman Broadway Group, Inc., is a California Certified
Small Business and a Veteran-Owned Small Business.



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1.0 INTRODUCTION

On behalf of Elizabeth Lacasia (Property Owner) and in response to a request by the County of San Mateo Coastside Design Review Committee to the Property Owner, Huffman-Broadway Group, Inc. (HBG) conducted a study to determine if the 0.16 acres parcel at 779 San Carlos Avenue, El Granada (Review Area) supports wetlands, as defined by the San Mateo County Local Coastal Program criteria.

Data collection, analysis, identification, and delineation of aquatic resources was conducted consistent with the *Corps' 1987 Wetlands Delineation Manual* (Corps' 1987 Manual), the 2010 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* and supporting USACE and US EPA guidance documents. The wetland delineation findings presented in Section 5 were based on the San Mateo County Local Coastal Program definition of wetlands as provided in Policy 7.14 *Definition of Wetlands*.

In summary, based on the steep topography of the property, well drained properties of the soil, absence of hydric soil indicators and lack of wetland hydrology, HBG determined the Review Area does not support wetlands as defined by the San Mateo County Local Coastal Program criteria, or aquatic resources defined as Waters of the US subject to Section 404 of the Clean Water Act, or Waters of the State subject to Porter-Cologne Water Quality Control Act.

1.1 Definition of Coastal Zone Wetlands

Wetlands in California's Coastal Zone are regulated under the California Coastal Act (CCA) of 1976, which is administered by the California Coastal Commission (CCC). Section 30121 of the CCA defines "wetlands" as "*lands within the coastal zone which may be covered periodically or permanently with shallow water and include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, and fens.*"

The San Mateo County Local Coastal Program (LCP) defines wetlands 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 vernal 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.”

2.0 GENERAL SITE DESCRIPTION

The 0.16 acre Review Area is located at 779 San Carlos Avenue, El Granada. Residential development borders the northeastern, southeastern, and southwestern boundary. The intermittent San Agustin Creek flows north to south and is positioned approximately 150 feet to the west of the Review Area’s western boundary. The riparian zone associated with the creek, known as the Montecito Riparian Corridor, extends into the southern area of the Review Area¹. Within the Review Area, a small area along the northeastern corner of the parcel has been cleared and story poles erected.

The latitude and longitude of the center of the Review Area are approximately 37.874467 N and -122. 510039 W, encompassing portions of the USGS 7.5 minute Montara Mountain quadrangle. Refer to Appendix A, Figure 1 for the Review Area Location, Figure 2 for the USGS Topographic Map of the Review Area, Figure 3 for Aerial Image of the Review Area, and Figure 4 for FEMA Flood Zone Mapping, Figure 5 for the NRCS Soils Map, and Figure 6 for the USFWS National Wetlands Inventory Map.

Note: In addition to the Review Area HBG made general observations of land conditions abutting to the Review Area. Based on aerial imagery reviewed prior to the site visit, the parcel along Avenue Balboa that abuts the southeastern boundary of the Review Area completely removed and replaced what appears to be an extension of the riparian zone with general residential landscaping such as grass, a patio, retaining wall and other landscape features. Based on Google Earth Pro measuring tool the area of vegetation removed was approximately 80’x20’ or 160 square feet.

2.1 Topography & Hydrology

Topography

Based on the site visit and review of the topographic map prepared by Turnrose Land Surveying company dated July 6, 2020, the majority of the Review Area slopes from the boundary along San Carlos Avenue south/southwest at a 5.5:1 / 18% slope. Approximately 20-25 linear feet from the southern boundary, the slope flattens as shown on the topographic map and confirmed in the field. The topographic survey of the Review Area is provided in Appendix 4.

Hydrology

There were no signs of surface water being directed onto the Review Area from San Carlos Avenue or visible culverts. Hydrology within the Review Area is likely due to direct precipitation.

¹ Riparian corridor is shown on the Turnrose Land Survey map dated July 6, 2020 (Appendix 4)

2.2 Soils

A review of the Natural Resources Conservation Service (NRCS) Soil Survey maps for San Mateo County shows two soil types occurring in the Review Area. The *Tierra loam, steep, eroded* (TeE2) occurs on the majority of the Review Area, and *Farallone loam, gently sloping* (FaB) occurs on the southern portion of the review Area.

Field investigations confirmed that the NRCS soils mapping for TeE2 is somewhat accurate and the soils mapping for FaB is relatively accurate throughout the Review Area. The TeE2 soil profile indicates a Bt² horizon at 17-37 inches with “clay” soils, but HBG found the loam layer extended much further through the soil profile. In addition, the TeE2 properties listed a restrictive feature from 10-24 inches, but no such layer was found with soil pits dug to down to 29 inches.

2.3 Vegetation

Nomenclature used for plant names follows *The Jepson Manual, 2nd edition* and changes made to this manual as published on the Jepson Interchange Project website. Wetland indicator status ratings are defined based on qualitative ecological descriptions and assigned following the classification of Lichvar (2012). Indicator status ratings include the following categories:

- Obligate wetland plants (OBL) – Plants that almost always occur in wetlands.
- Facultative wetland plants (FACW) - Plants that usually occur in wetlands, but may occur in non-wetlands.
- Facultative plants (FAC) - Plants that occur in wetlands and non-wetlands.
- Facultative upland plants (FACU) - Plants that usually occur in non-wetlands, but may occur in wetlands.
- Upland plants (UPL) – Almost never occur in wetlands.

Vegetation that does not have one of the five indicator status rating listed in the Regional Wetland Plant List is referred to as Not Listed (NL) on the wetland determination data forms and is assumed to never occur in wetlands.

The portion of the property above the riparian zone is dominated by coyote brush (*Baccharis pilularis* (NL)), poison oak (*Toxicodendron diversilobum* (FAC)), pampas grass (*Cortaderia selloana* (FACU)), and French broom (*Genista monspessulana* (NL)). Within the riparian zone, the tree stratum was dominated by arroyo willow (*Salix lasiolepis* (FACW)), and the vine stratum was dominated by California blackberry (*Rubus ursinus* (FACU)), and poison oak (*Toxicodendron diversilobum* (FAC)). In addition, less than 1% cover of twinberry (*Lonicera involucrata* (FAC)) was observed, one individual sedge was found that is likely tall flatsedge (*Cyperus eragrostis* (FACW)) and two individual horsetail plants which are likely tall scouring rush (*Equisetum hyemale* (FACW)) plants were observed.

² A Bt horizon is one that contains illuvial layer lattice clays.

3.0 DELINEATION METHODS

3.1 Overview of Sampling Methodology

HBG conducted its investigation on October 4, 2024. The investigation focused on identifying and mapping aquatic resources meeting the San Mateo County Local Coastal Program definitions of wetlands. The Western Mountains, Valleys, and Coast Regional manual was followed when determining the presence or absence of wetland vegetation, hydric soil, and wetland hydrology indicators.

Prior to the site visit, the Property Owner, at the request of HBG, trimmed dense vegetation along the eastern boundary down to the southwestern boundary. The purpose of trimming the vegetation was to gain access to the lower part of the Review Area. This section of the review area had the highest potential to support hydric soils and wetland hydrology indicators due to the slope converging onto a topographic flat area.

In preparation for the field investigations, HBG identified existing landforms that would likely contain potential aquatic resources (wetlands and other waters) within the Review Area by reviewing (1) the topographic survey conducted by Turnrose Land Surveying company; (2) a report prepared by Coast Ridge Ecology dated September 1, 2022; (3) letters prepared by the Committee for Green Foothills; (4) USGS topographic mapping; (5) NRCS soil survey data; (6) USFWS National Wetland Inventory mapping; and (7) communications with Coast Ridge Ecology principal biologist Patrick Kobernus. In addition, Coast Ridge Ecology principal biologist Patrick Kobernus met HBG biologist, Robert Perrera, onsite to provide an overview of their studies, discuss general site conditions and access points.

4.0 AQUATIC RESOURCES TECHNICAL FINDINGS

The following sections discuss hydrophytic vegetation, hydric soil, and wetland hydrology conditions observed at the Review Area. Sample Point locations are shown on Appendix 1, Figure 7, Wetland Determination Data Forms documenting this information are in Appendix 2, and representative photographs of the Review Area are provided in Appendix 3.

Normal circumstances were present, climatic conditions were typical for October when the field work occurred, and vegetation, soil, and hydrology conditions were not naturally problematic or significantly disturbed. Although the vegetation had been trimmed at SP-2, the trees, vines, and shrubs that occupied this area were still visible.

4.1 Sample Locations

Sample locations were selected based on the convergent slope near the southwestern boundary, the general site topography, and the landform features. Soil pits were dug by shovel and using a hand auger to a minimum depth of 13 inches and a maximum depth of 50 inches. Vegetation and hydrologic conditions were observed within a 5 foot radius sampling plot surrounding the pits and soil, and vegetation and hydrology observations were recorded on Wetland Determination Data Forms – Western Mountains, Valleys, and Coast Region, Version 2.0.

Vegetation, soil, and hydrology observations were made at four (4) sample point locations. Two of the sample points, SP-1 and SP-3 were positioned on a flat landform feature where the slope converged, and sample points SP-2 and SP-4 were taken on the hillslope which dominated 90% of the Review Area.

4.2 Field Indicators of Hydric Soil Conditions

Understanding the soil color, type of redoximorphic feature, soil texture and organic matter content is important to determine if a soil is hydric or not. Soil texture also provides an indication of soil permeability. For example, a thick clay layer near the surface may indicate a “restrictive” layer preventing water from moving down the soil profile resulting in saturation, a high water table or ponding. A loamy soil allows water to move vertically and horizontally through the profile, and in the absence of a restrictive layer, soil saturation, high water table and ponding is minimized depending on its position within the landscape.

Landform & Soil Texture:

SP-1 and SP-3 were taken on a landform described as flat where the hillslope converged to this flat topographic area. SP-1 and SP-3 are located uphill from the creek well above its flood plain. Soil texture throughout the profile varied from a Loam near the surface to a Loamy Sand and Silty Loam. No restrictive horizon was observed. NRCS soils mapping for this area indicates that these soils formed on a flood plain or alluvial fan and have a restricted layer at depths of 80”.

SP-2 and SP-4 were taken on the hillslope. Soil texture throughout the profile varied from a Silty Loam near the surface to Loamy Sand. No restrictive horizon was observed from 0”-34”. NRCS soils mapping for this area indicates these soils form on hills, support clay from the B-C horizon

and have a restricted layer at depths 10"-24".

Soil Color:

The matrix color for SP-1 and SP-3 ranged from 10YR 2/1, 3/1 and 3/2. At SP-1 redoximorphic features in the form of reduced iron was found within a 2" layer of silty loam from 28"-30". It should be noted a 2" layer of redox at this depth does not meet any of the hydric soil indicators. SP-2 and SP-4 matrix color ranged from 10YR 3/2 and 3/3 with no redoximorphic features.

In summary, based on the soil color, texture, and lack of significant redoximorphic features, the Review Area does not support Hydric Soils.

4.3 Field Indicators of Wetland Hydrology Conditions

No primary hydrologic indicators were observed, no surface water, saturation or a water table was observed, and the Review Area is not situated within a flood plain. Within SP-1 and SP-3 one secondary indicator, FAC-Neutral Test (D5) was recorded. Refer to Figure 4 FEMA Flood Zone Mapping for the Review Area flood hazard zone.

Also noteworthy, no willow roots were encountered when digging the soil pits at SP-1 and SP-3. You may expect to encounter many roots when digging pits to depths of 50" in a thick willow riparian zone, however no roots were encountered. This, along with the absence of hydric soils and well drained nature of the soils, suggests the water table is very deep influencing the willow roots to grow more vertical then horizontal near the surface.

In summary, based on the absence of surface and subsurface hydrology, topographic slopes, and its position within the landscape outside of the flood plain, the Review Area does not support Wetland Hydrology.

4.4 Field Indicators of Hydrophytic Vegetation Conditions

Dominant vegetation at SP-1 and SP-3 included arroyo willow (*Salix lasiolepis* (FACW)) in the tree stratum, and California blackberry (*Rubus ursinus* (FACU)) and poison oak (*Toxicodendron diversilobum* (FAC)) in the vine stratum. Dominant vegetation at SP-4 included coyote brush, French broom, poison oak and pampas grass. Vegetation at SP-2 was sparse due to the clearing of vegetation when the story poles were installed, but signs of California blackberry (*Rubus ursinus* (FACU)), poison oak (*Toxicodendron diversilobum* (FAC)), and coyote brush were visible.

In summary, SP-1 and SP-3 did support a dominance of hydrophytic vegetation and SP-2 and SP-4 did not support a dominance of hydrophytic vegetation.

5.0 SUMMARY OF FINDINGS

In the absence of hydric soils and wetland hydrology, the well-drained nature of the loamy soils, the absence of a restrictive layer near the surface, and the absence of willow roots near the surface, it is likely the arroyo willows at SP-1 and SP-3 are not acting as hydrophytes but are able to survive by accessing ground water at depths of below 50" (4.2 feet) in a non-wetland habitat.

Based on these technical findings, the Review Area does not support wetlands as defined Coastal Zone Act or San Mateo County Local Coastal Program.

6.0 REFERENCES

- Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
- Kobernus, Patrick. 2022. *Clarification on the Status of Arroyo Willow, Concave Topography and Hydric Soils Within Riparian Corridors and Wetlands*. Coast Ridge Ecology. September 1.
- Lichvar, R., N. Melvin, M. Butterwick, and W. Kirchner. 2012. *National Wetland Plant List Indicator Status Definition*. US Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory.
- Roberts, Lennie. Committee for Green Foothills. Letter sent to Monowitz, Leung, and Jia at San Mateo County Planning. 2022. *PLN2021-00478 Owner-Applicant: Rodrigo Lacasia-Barrios, Location: San Carlos Avenue, El Granada; APN: 047-105-020. Proposed construction of a new 2,226 sq. ft. three-story, single-family residence with attached 795 sq. ft. ADU and 374 sq. ft. garage on a 7,070 sq. ft. parcel associated with a staff level Coastal Development Permit (CDP) and Variance*. September 15.
- Roberts, Lennie. Committee for Green Foothills Green Foothills. Letter sent to Monowitz, Steve, San Mateo County & Carl, Dan and Rexing, Stephanie. Coastal Commission. 2024. *PLN2021-00478 Owner-Applicant: Rodrigo Lacasia-Barrios, Location: San Carlos Avenue, El Granada; APN: 047-105-020. Proposed construction of a new 2,226 sq. ft. three-story, single-family residence with attached 795 sq. ft. ADU and 374 sq. ft. garage on a 7,070 sq. ft. parcel associated with a staff level Coastal Development Permit (CDP) and Variance*. September 7.
- US Army Corps of Engineers Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. US Army Engineer Waterways Experiment Station, Vicksburg, MS.
- US Army Corps of Engineers. 1992a. *Regional Interpretation of the 1987 Manual*. Memorandum. February 20.
- US Army Corps of Engineers. 1992b. *Clarification and Interpretation of the 1987 Manual*. Memorandum. March 8.
- U.S. Army Corps of Engineers. 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-3. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

US Department of Agriculture, Natural Resources Conservation Service. Web Soil Survey (WSS).
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

Appendix 1

Figures 1-7

Project Data: Huffman Broadway Group; Basemap: California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., MET/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS

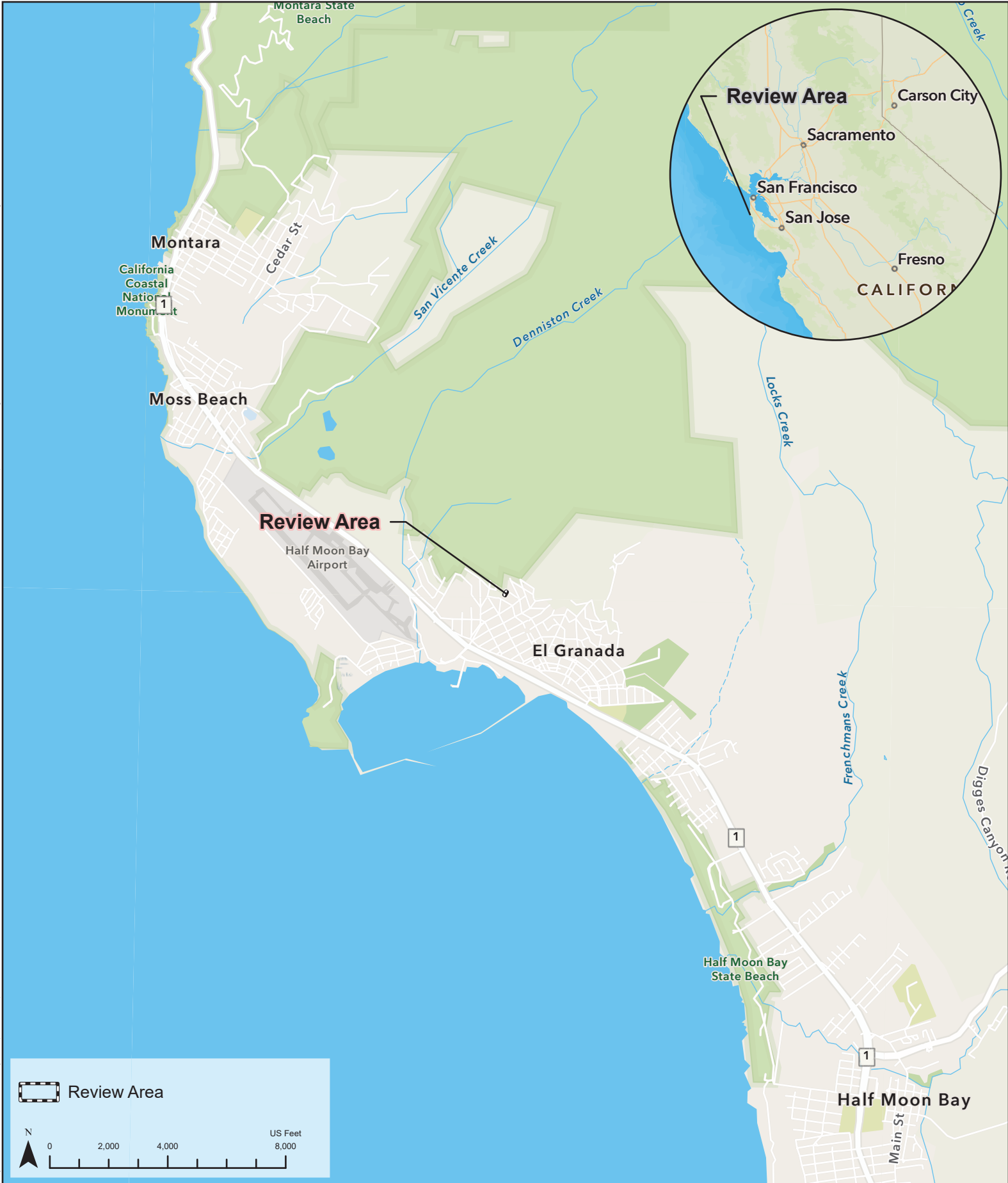


Figure 1. Review Area Location
Proposed Single-Family Residence Project
779 San Carlos Avenue, El Granada, San Mateo County

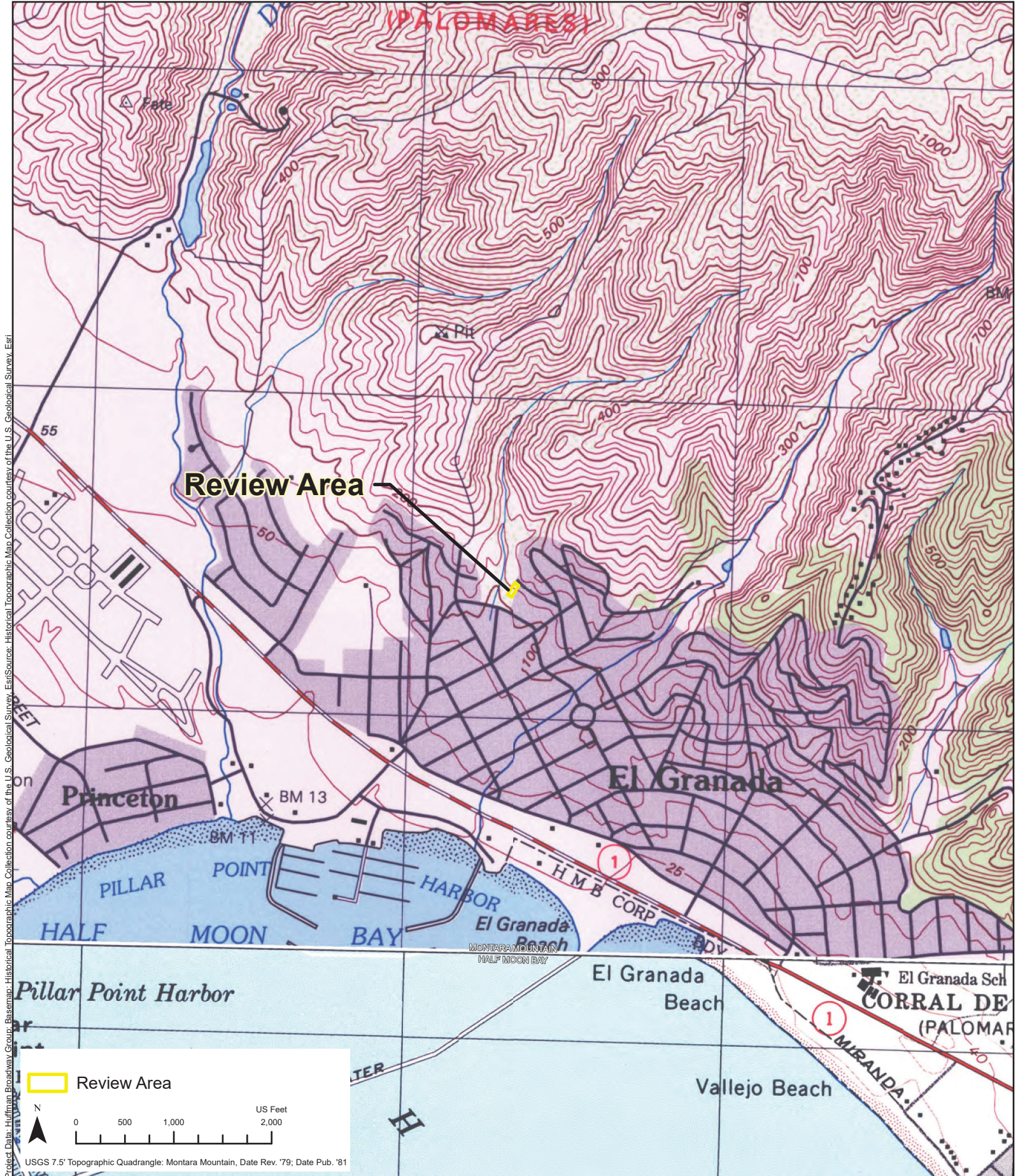


Figure 2. USGS Topographic Map of the Review Area Huffman-Broadway Group, Inc.
Proposed Single-Family Residence Project
779 San Carlos Avenue, El Granada, San Mateo County
ENVIRONMENTAL REGULATORY CONSULTANTS

Spatial Reference:
Name: NAD 1983 2011 StatePlane California III FIPS 0403 F1 US
Scale: 1:15,000
Date Map Created: 10/16/2024
HBG GIS Analyst: Agie Gilmore & Deland Wing
HBG PM: Robert F. Herrera

Project Data: Huffman Broadway Group, Inc. (and contributors), CC-BY-SA, Esri Community Maps Contributors, County of San Mateo, California, California State Parks, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, Google Earth Imagery Date: 5/30/2022

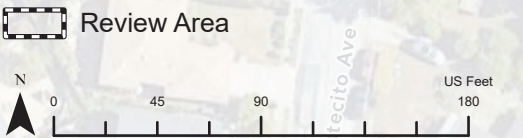


Figure 3. Aerial Image of the Review Area
Proposed Single-Family Residence Project
779 San Carlos Avenue, El Granada, San Mateo County

Project Data: HBG, BaseMap Imagery Credits: Esri Community Maps Contributors, County of San Mateo, California, California State Parks, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc. METINASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, Maxar, Flood Zone Data: FEMA National Flood Hazard Layer (NFHL) - <https://hazards.fema.gov/national/nfhl/wms>



Figure 4. FEMA Flood Zone Mapping
Proposed Single-Family Residence Project
779 San Carlos Avenue, El Granada, San Mateo County

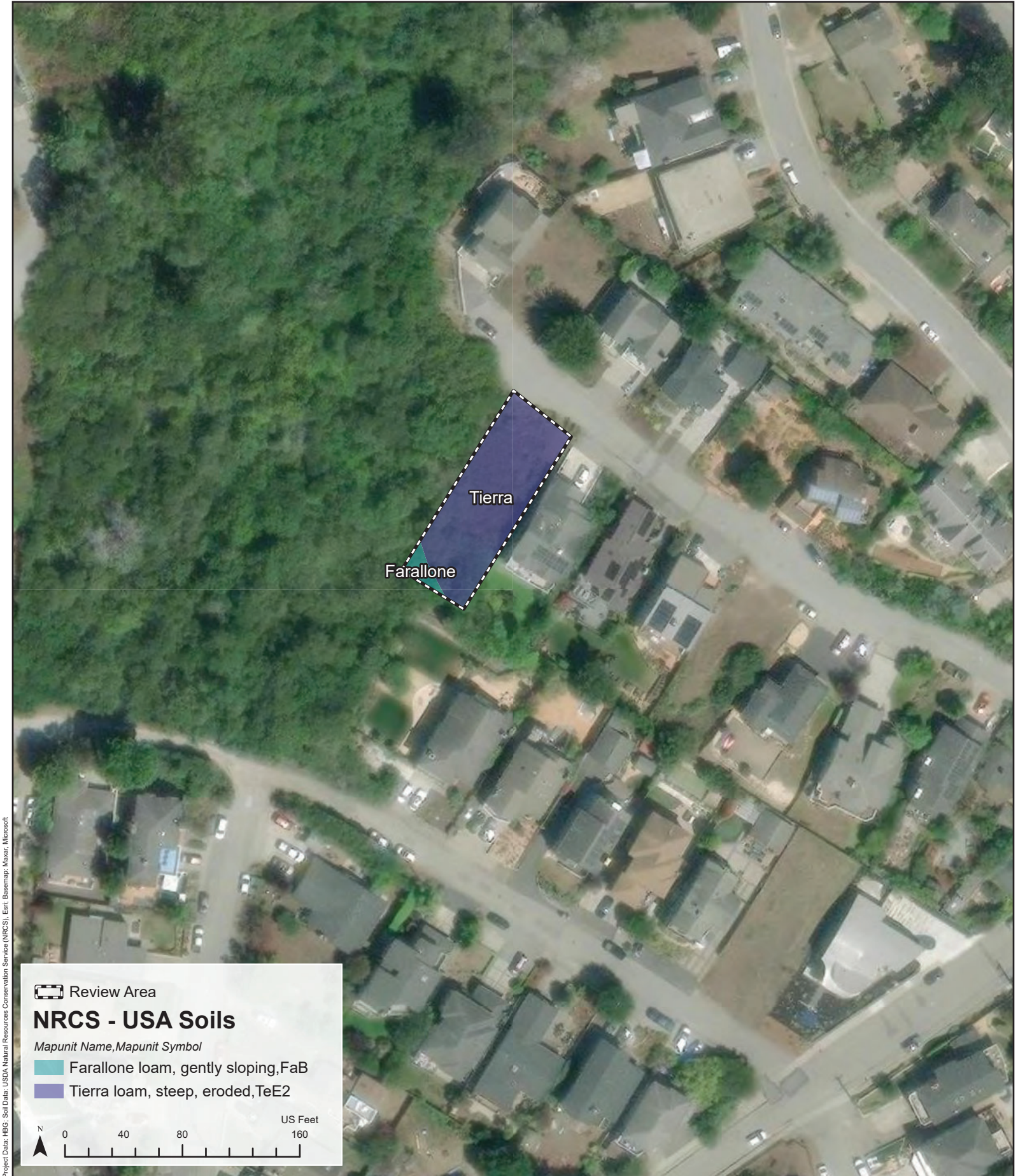


Figure 5. NRCS Soils Map
Proposed Single-Family Residence Project
779 San Carlos Avenue, El Granada, San Mateo County

Project Data: HBG, Wetlands: U.S. Fish and Wildlife Service; Basemap: Esri Community Maps Contributors, County of San Mateo, California, California State Parks, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, Maxar



Figure 6. USFWS National Wetlands Inventory Mapping
Proposed Single-Family Residence Project
779 San Carlos Avenue, El Granada, San Mateo County



Figure 7. Aquatic Resource Delineation
 Proposed Single-Family Residence Project
 779 San Carlos Avenue, El Granada, San Mateo County

Appendix 2

Wetland Determination Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR		OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																
Project/Site: <u>779 San Carlos Ave</u> City/County: <u>El Granada, San Mateo</u> Sampling Date: <u>10-4-2024</u>																		
Applicant/Owner: <u>Elizabeth Lacasia</u> State: <u>CA</u> Sampling Point: <u>SP-1</u>																		
Investigator(s): <u>Robert F. Perrera HRC</u> Section, Township, Range: <u>11, T05S, R06W</u>																		
Landform (hillside, terrace, etc.): <u>Base of Slope Convergence</u> Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0</u>																		
Subregion (LRR): <u>LRR A</u> Lat: <u>37.51008</u> Long: <u>-122.477069</u> Datum: <u>NA</u>																		
Soil Map Unit Name: <u>Farallone Loam, gently sloping (CfAB)</u> NWI classification: <u>NA</u>																		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																		
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>		Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>																
Remarks:																		
VEGETATION – Use scientific names of plants.																		
Tree Stratum (Plot size: <u>5'x5'</u>)		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)																
1. <u>Arroyo willow</u>	Absolute % Cover: <u>100</u> Dominant Species? <u>Yes</u> Indicator Status: <u>FACW</u>																	
2. <u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>																	
Sapling/Shrub Stratum (Plot size: <u> </u>)		Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: right;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																	
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FACW species <u> </u>	x 2 = <u> </u>																	
FAC species <u> </u>	x 3 = <u> </u>																	
FACU species <u> </u>	x 4 = <u> </u>																	
UPL species <u> </u>	x 5 = <u> </u>																	
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3. <u> </u>																		
4. <u> </u>																		
Herb Stratum (Plot size: <u>5'x5'</u>)		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Equisetum hyemale?</u>	Absolute % Cover: <u><1</u> Dominant Species? <u>Yes</u> Indicator Status: <u>FACW</u>																	
2. <u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>																	
Woody Vine Stratum (Plot size: <u>5'x5'</u>)																		
1. <u>Toxicodendron diversilobum</u>	Absolute % Cover: <u>10</u> Dominant Species? <u>Yes</u> Indicator Status: <u>FAC</u>																	
2. <u>Rubus ursinus</u>	Absolute % Cover: <u>10</u> Dominant Species? <u>Yes</u> Indicator Status: <u>FACU</u>																	
% Bare Ground in Herb Stratum <u>99</u>																		
Remarks: <u>Only one equisetum found.</u>																		

SOIL

Sampling Point: SP-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9.5	10YR 2/1	100	—	—	—	—	Loam	w/sand
9.5-28	10YR 3/1	100	—	—	—	—	Loamy sand	w/pebbles
28-30	10YR 3/1	98	10YR 3/6	2	C	M	Silt Loam	
30-40	10YR 3/1	100	—	—	—	—	Loamy sand	w/pebbles
40-50	10YR 3/2	100	—	—	—	—	Loamy sand/sand	w/pebbles

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

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

Indicators for Problematic Hydric Soils³:

☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)	☐ 2 cm Muck (A10) (LRR A, E)
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)	☐ Iron-Manganese Masses (F12) (LRR D)
☐ Black Histic (A3)	☐ Stripped Matrix (S6)	☐ Red Parent Material (F21)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (F22)
☐ 1 cm Muck (A9) (LRR D, G)	☐ Loamy Gleyed Matrix (F2)	☐ Other (Explain in Remarks)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)	
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)	
☐ Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)	
☐ 2.5 cm Mucky Peat or Peat (S2) (LRR G)	☐ Redox Depressions (F8)	

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

Restrictive Layer (if observed):

Type: None Found
Depth (inches): NAHydric Soil Present? Yes ☐ No ☒Remarks: Soil texture is not mucky

HYDROLOGY

Wetland Hydrology Indicators:

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

Secondary Indicators (2 or more required)

☐ Surface Water (A1)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
☐ High Water Table (A2)	☐ Salt Crust (B11)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Geomorphic Position (D2)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ FAC-Neutral Test (D5)
☐ Iron Deposits (B5)	☐ Stunted or Stressed Plants (D1) (LRR A)	☐ Raised Ant Mounds (D6) (LRR A)
☐ Surface Soil Cracks (B6)	☐ Other (Explain in Remarks)	☐ Frost-Heave Hummocks (D7)
☐ Inundation Visible on Aerial Imagery (B7)		
☐ Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches):

Water Table Present? Yes ☐ No ☒ Depth (inches):

Saturation Present? Yes ☐ No ☒ Depth (inches):

(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

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

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR		OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																		
Project/Site: <u>779 San Carlos Ave</u>		City/County: <u>El Granada, San Mateo</u>																		
Applicant/Owner: <u>Elizabeth Lacasia</u>		State: <u>CA</u>																		
Investigator(s): <u>Robert F. Perra</u>		Sampling Date: <u>10-4-2024</u>																		
Section, Township, Range: <u>11, T05S, R 06W</u>		Sampling Point: <u>SP-2</u>																		
Landform (hillside, terrace, etc.): <u>hillside</u>	Local relief (concave, convex, none): <u>convex</u>	Slope (%): <u>18</u>																		
Subregion (LRR): <u>LRR-A</u>	Lat: <u>37.510076</u>	Long: <u>-122.476992</u>																		
Soil Map Unit Name: <u>Tierra loma, steep, eroded (TeE2)</u>	Datum: <u>NA</u>																			
Soil NWI classification: <u>NA</u>																				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																				
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																				
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																				
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>		Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>																		
Remarks: <u>Although vegetation had been trimmed @ this SP, veg was visible on ground + stumps of shrubs.</u>																				
VEGETATION – Use scientific names of plants.																				
Tree Stratum (Plot size: <u>5'x5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
1. <u>Salix lasiolepis</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>20</u> = Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>5'x5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: <table style="width:100%; font-size: small;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u> (A)	<u> </u> (B)																			
Prevalence Index = B/A = <u> </u>																				
1. <u>Geosia monspessulana</u>	<u>10</u>	<u>Yes</u>	<u>NL</u>																	
2. <u>Baccharis pilularis</u>	<u>10</u>	<u>Yes</u>	<u>NL</u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>10</u> = Total Cover																				
Herb Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u> </u> = Total Cover																				
Woody Vine Stratum (Plot size: <u>5'x5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
1. <u>Rubus ursinus</u>	<u>40</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Toxicodendron diversilobum</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
<u>50</u> = Total Cover																				
% Bare Ground in Herb Stratum <u>100</u>																				
Remarks: <u> </u>																				

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-11	10YR 3/2	100	—	—	—	—	Sandy loam	w/ Pebbles
11-29	10YR 3/3	100	—	—	—	—	Sandy loam	w/ Pebbles

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)	☐ 2 cm Muck (A10) (LRR A, E)
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)	☐ Iron-Manganese Masses (F12) (LRR D)
☐ Black Histic (A3)	☐ Stripped Matrix (S6)	☐ Red Parent Material (F21)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (F22)
☐ 1 cm Muck (A9) (LRR D, G)	☐ Loamy Gleyed Matrix (F2)	☐ Other (Explain in Remarks)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)	
☐ Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)	
☐ 2.5 cm Mucky Peat or Peat (S2) (LRR G)	☐ Redox Depressions (F8)	

Restrictive Layer (if observed): Type: <u>None found</u> Depth (inches): <u>NA</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
☐ High Water Table (A2)	☐ Salt Crust (B11)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Geomorphic Position (D2)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ FAC-Neutral Test (D5)	
☐ Iron Deposits (B5)	☐ Stunted or Stressed Plants (D1) (LRR A)	☐ Raised Ant Mounds (D6) (LRR A)	
☐ Surface Soil Cracks (B6)	☐ Other (Explain in Remarks)	☐ Frost-Heave Hummocks (D7)	
☐ Inundation Visible on Aerial Imagery (B7)			
☐ Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): Water Table Present? Yes ☐ No ☒ Depth (inches): Saturation Present? Yes ☐ No ☒ Depth (inches): (includes capillary fringe)				Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR		OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																																																																																																																																																																																																			
Project/Site: <u>779 San Carlos Ave.</u> City/County: <u>El Granada, San Mateo</u> Sampling Date: <u>10-4-2024</u>																																																																																																																																																																																																					
Applicant/Owner: <u>Elizabeth Lacasica</u> State: <u>CA</u> Sampling Point: <u>SP-3</u>																																																																																																																																																																																																					
Investigator(s): <u>Robert F. Perrera HBG</u> Section, Township, Range: <u>11, T053, R06W</u>																																																																																																																																																																																																					
Landform (hillside, terrace, etc.): <u>Base of slope convex</u> Local relief (concave, convex, none): <u>None</u> Slope (%): <u>0</u>																																																																																																																																																																																																					
Subregion (LRR): <u>LRR A</u> Lat: <u>37.510060</u> Long: <u>-122.477106</u> Datum: <u>NA</u>																																																																																																																																																																																																					
Soil Map Unit Name: <u>Farallone Loam, gently sloping (FaB)</u> NWI classification: <u>NA</u>																																																																																																																																																																																																					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)																																																																																																																																																																																																					
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐																																																																																																																																																																																																					
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)																																																																																																																																																																																																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																																																																																																																																																																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; vertical-align: top;"> Hydrophytic Vegetation Present? Yes ☒ No ☐ Hydric Soil Present? Yes ☐ No ☒ Wetland Hydrology Present? Yes ☐ No ☒ </td> <td style="width:50%; vertical-align: top;"> Is the Sampled Area within a Wetland? Yes ☐ No ☒ </td> </tr> <tr> <td colspan="2" style="height: 40px; vertical-align: top;">Remarks:</td> </tr> </table>			Hydrophytic Vegetation Present? Yes ☒ No ☐ Hydric Soil Present? Yes ☐ No ☒ Wetland Hydrology Present? Yes ☐ No ☒	Is the Sampled Area within a Wetland? Yes ☐ No ☒	Remarks:																																																																																																																																																																																																
Hydrophytic Vegetation Present? Yes ☒ No ☐ Hydric Soil Present? Yes ☐ No ☒ Wetland Hydrology Present? Yes ☐ No ☒	Is the Sampled Area within a Wetland? Yes ☐ No ☒																																																																																																																																																																																																				
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ENG FORM 6116-9, FEB 2024
Western Mountains, Valleys, and Coast – Version 2.0

SOIL

Sampling Point: SA-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/1	100	—	—	—	—	Silty Loam	w/ Pebbles
6-18	10YR 3/2	100	—	—	—	—	Sandy Loam	w/ Pebbles
18-30	10YR 3/2-3/1	100	—	—	—	—	Silty Loam	w/ Pebbles
30-34	10YR 3/2	100	—	—	—	—	Loamy sand	w/ Pebbles

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)	☐ 2 cm Muck (A10) (LRR A, E)
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)	☐ Iron-Manganese Masses (F12) (LRR D)
☐ Black Histic (A3)	☐ Stripped Matrix (S6)	☐ Red Parent Material (F21)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (F22)
☐ 1 cm Muck (A9) (LRR D, G)	☐ Loamy Gleyed Matrix (F2)	☐ Other (Explain in Remarks)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)	
☐ Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)	
☐ 2.5 cm Mucky Peat or Peat (S2) (LRR G)	☐ Redox Depressions (F8)	

Restrictive Layer (if observed): Type: <u>None Found</u> Depth (inches): <u>N/A</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks: Soil texture is not mucky.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply) ☐ 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)	Secondary Indicators (2 or more required) ☐ Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living 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)

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): <u> </u> Water Table Present? Yes ☐ No ☒ Depth (inches): <u> </u> Saturation Present? Yes ☐ No ☒ Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR		OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																																																																																																																																																																							
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Applicant/Owner: <u>Elizabeth Lacasía</u> State: <u>CA</u> Sampling Point: <u>SP-4</u>																																																																																																																																																																									
Investigator(s): <u>Robert F. Perrera HBC</u> Section, Township, Range: <u>11, T 053, R 06W</u>																																																																																																																																																																									
Landform (hillside, terrace, etc.): <u>hillslope</u> Local relief (concave, convex, none): <u>convex</u> Slope (%): <u>18</u>																																																																																																																																																																									
Subregion (LRR): <u>LRR-A</u> Lat: <u>37.510294</u> Long: <u>-122.476979</u> Datum: <u>NA</u>																																																																																																																																																																									
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Sampling Point: SP-41

HYDROLOGY

Wetland Hydrology Indicators:

ENC FORM 6116 9 FEB 2024 Western Mountains, Valleys, and Coast, Version 2.0

Appendix 3

Representative Review Area Photographs



SP-1: From 30"-40", loamy sand with pebbles, 10YR3/1.



SP-2: From 11"-29", Sandy Loam with pebbles, 10YR3/3.



SP-3: Flat topography, augur hole shown in photo dug to 34".

Appendix 4

Turnrose Land Surveying Topographic Map

