

# **COASTAL WETLANDS DELINEATION REPORT**

## **PRC 421 DECOMMISSIONING PROJECT**

### **GOLETA, SANTA BARBARA COUNTY**

Project No. 2102-0251

**Prepared for:**

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## **1.0 INTRODUCTION**

This Coastal Wetlands Delineation Report has been prepared by Padre Associates, Inc. (Padre) on behalf of the California State Lands Commission for the PRC 421 Decommissioning Project (Project). This Report supplements the analysis provided in the Project's Environmental Impact Report (EIR). This Report has been developed to document coastal wetlands in areas that may be affected by implementation of the Project located in the western portion of the City of Goleta, California, along the shoreline immediately south of the Sandpiper Golf Course (see Project Overview Map).

### **1.1 PURPOSE AND NEED**

The PRC 421 piers and facilities were installed in 1929 and 1930 for the purpose of oil and gas development of the Ellwood Oil Field. With the plugging of the last two wells remaining in the oilfield, the piers have no further use. The existing access road and supporting revetment would continue to be used for decommissioning activities of the piers, caissons, and pipelines and would also be subsequently decommissioned. These deteriorating structures now represent a physical coastal obstruction, a potential public safety hazard, and a potential environmental hazard represented by the known presence of hydrocarbon-impacted soil and fill contained within the pier caissons. The removal of these structures would be a significant public benefit, would allow full use of the beach coastline by the public, and would eliminate an existing threat to public safety and the environment.

### **1.2 PROJECT SUMMARY**

The Project consists of two primary components, Component 1 and Component 2, followed by site restoration and cleanup. Component 1 of the Project includes the complete demolition and removal of the caissons and piers back to the existing seawall, removal of both well casings and capping the well down to the bedrock, and the abandonment in-place of production pipelines through the golf course to the Ellwood Onshore Facility (EOF). Component 2 involves the decommissioning and removal of the two pipelines that extend from the 421-1 pier area beneath the access road and the subsequent removal of the pier abutments, supporting rock revetment and wooden seawall beneath the access road along the bluff. The Project would be completed as follows:

#### **1.2.1 Component 1**

##### **Staging/Access**

- Setup construction staging areas
- Construction of a temporary access ramp

##### **Caisson and Pier Removal**

- Removal of soil and fill inside both caissons down to the existing bedrock, including all interior debris (buried timber, steel, and concrete support structures) in sequence with the eastern, northern and west concrete and sheet pile walls.

- Cutting and removal of well casings down to existing bedrock elevation and installation of a final welded well cap.
- Removal of both caissons' southern (ocean side) external sheet pile, H-piles, and concrete walls including concrete footings.
- Full removal of both pier structures and supports to the bedrock interface.
- Flushing, isolating, and abandonment in place of the 2-inch-diameter and 6-inch-diameter pipelines beneath the golf course pipeline corridor to the EOF.

### **1.2.2 Component 2**

#### **Access Roadway, Production Pipeline Abandonment/Removal, Pier Abutment and Seawall/Revetment Removal**

- Decommissioning and removing the 2-inch-diameter and 6-inch-diameter pipelines beneath the access road
- Removal of the pier abutments, and supporting rock and wooden seawall revetments
- Excavate and slope the road area, where appropriate, to meet California Occupational Safety and Health (Cal/OSHA) allowable slopes

#### **Final Site Restoration and Cleanup**

#### **Recycling and Disposal of Soils/Materials**





**Project Overview Map**

## 2.0 REGULATORY SETTING

The term wetland is used to describe a particular landscape characterized by inundation or saturation with water for a sufficient duration to result in the alteration of physical, chemical, and biological elements relative to the surrounding landscape. Wetland areas are characterized by prevalence of vegetation typically adapted for life in saturated soil conditions.

### 2.1 FEDERAL REGULATIONS

Federal regulatory agencies with jurisdiction over wetlands include the U.S. Army Corps of Engineers (Corps) with authority to enforce two Federal regulations involving wetland preservation; the Clean Water Act (Section 404), which regulates the disposal of dredge and fill materials in waters of the U.S., and the Rivers and Harbors Act of 1899 (Section 10), which regulates diking, filling, and placement of structures in navigable waterways.

Under Corps and U.S. Environmental Protection Agency regulations, wetlands are defined as:

*"those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."*

### 2.2 STATE OF CALIFORNIA REGULATIONS

State regulatory agencies with jurisdiction over wetlands include the State Water Quality Control Board that enforces compliance with the Federal Clean Water Act (Section 401) regulating water quality and the California Coastal Commission (CCC), which regulates development within the coastal zone as stipulated in the California Coastal Act (Sections 30230, 30231, 30233, and 30240 apply to preservation and protection of wetlands).

The Coastal Commission's regulations establish a "one parameter definition" that only requires evidence of a single parameter to establish coastal wetland conditions:

*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. (14 CCR Section 13577).*

The Coastal Commission's regulations provide general decision rules for establishing the upland boundary of coastal wetlands:

- The boundary between land with predominantly hydrophytic cover and land with predominantly mesophytic or xerophytic cover.

- The boundary between soil that is predominantly hydric and soil that is predominantly nonhydric; or
- In the case of wetlands without vegetation or soils, the boundary between land that is flooded or saturated at some time during years of normal precipitation, and land that is not (14 CCR Section 13577).

### **3.0 FIELD METHODS**

Field methods were taken from the Arid West Supplement to the Corps of Engineers Wetland Delineation Manual.

#### **3.1 SURVEY AREA**

The survey area was selected to encompass all areas that may be affected by decommissioning activities, including:

- Caissons
- Access roadway
- Rock revetment
- Potential beach work areas and access routes.

#### **3.2 HYDROPHYTIC VEGETATION**

Vegetation of the survey area was assessed in coordination with preparation of the Project's EIR. A botanical survey of the Project site was conducted on August 2, 2021, and a plant list developed following this survey is provided as Attachment A. All areas supporting hydrophytes were inspected and sampled when needed to verify hydrophytic status. The location of each sample point is provided on attached EIR Figures 4.3-4 and 4.3-5.

The dominance of hydrophytic vegetation was determined at each sample point, dominant plant species within each stratum (tree, sapling/shrub, herbaceous, and woody vine) at the sample point location were identified using The Jepson Manual (second edition). The hydrophytic indicator status of the species was determined in accordance with the 2018 National Wetland Plant List, Arid West Region as facultative (FAC), facultative-wetland (FACW) or obligate (OBL) wetland species. The vegetation was then analyzed using the dominance test to determine if greater than 50 percent of the dominant species were hydrophytic and the prevalence index calculation to determine if the prevalence index was less than or equal to 3.0. Wetland Determination Data Forms are provided in Attachment B for each sample point.

#### **3.3 WETLAND HYDROLOGY**

Wetland hydrology was examined in areas not already considered coastal wetlands based on hydrophytic vegetation. Hydrologic characteristics of the sample points were evaluated by identifying evidence of inundation, and the presence of surface water, soil saturation, sediment deposits/sorting, salt crusts, drift deposits and local drainage patterns.

### 3.4 HYDRIC SOILS

Soil information (including excavation of soil pits) was not collected because it was not needed to delineate the extent of coastal wetlands at the Project site.

## 4.0 COASTAL WETLANDS DELINEATION RESULTS

### 4.1 HYDROPHYTIC VEGETATION

Hydrophytic plant species found within the survey area are listed in Table 1. Most sampling points that met either the dominance or prevalence test for hydrophytic vegetation along the access roadway supported a mixture of quail bush and salt-grass or alkali heath.

**Table 1. Hydrophytic Plant Species of the Survey Area**

Common Name	Scientific Name	Hydrophytic Status*	Sample Points Where Found
Brass buttons	<i>Cotula coronopifolia</i>	OBL	1,4
Bristly ox-tongue	<i>Helminthotheca echioides</i>	FAC	1,5
Fat-hen	<i>Atriplex prostrata</i>	FACW	1
Salt-grass	<i>Distichlis spicata</i>	FAC	1,3,4,10,11,12,13,14,15,16,19
Broad-leaf cattail	<i>Typha latifolia</i>	OBL	2
Southern cattail	<i>Typha domingensis</i>	OBL	2
Parish's glasswort	<i>Arthrocnemum subterminale</i>	FACW	3
Rabbit's foot grass	<i>Polypogon monspeliensis</i>	FACW	4,5,9,14,17
Quail bush	<i>Atriplex lentiformis</i>	FAC	4,5,6,7,8,9,10,11,12,13,14,15,17
Saltmarsh sand-spurrey	<i>Spergularia marina</i>	OBL	4
Alkali heath	<i>Frankenia salina</i>	FACW	5,6,7,8,10
California bulrush	<i>Schoenoplectus californicus</i>	OBL	18
Sea-coast bulrush	<i>Bolboschoenus robustus</i>	OBL	18,19
Fleshy jaumea	<i>Jaumea carnosa</i>	OBL	19

\*Listed as OBL (obligate wetland: almost always occurs in wetlands, >99% probability); FACW (facultative-wetland: usually occurs in wetlands, 67-99% probability); FAC (facultative: equally likely to occur in wetlands or non-wetlands, 34-66% probability)

## 4.2 WETLAND HYDROLOGY

Wetland hydrology indicators were found only at the following sample points:

- Sample point 1 near the EOF back fence (surface water and soil saturation).
- Sample point 2 north of Pier 421-2 (surface water and soil saturation).
- Sample point 4 at the terminus of the access roadway (surface water, soil saturation and salt deposits).
- Sample point 14 along the access road (soil saturation).
- Sample point 18 on the beach (surface water and soil saturation).
- Sample point 19 at the Bell Canyon Creek estuary (soil saturation).

## 4.3 COASTAL WETLANDS DELINEATION RESULTS

The coastal wetlands delineation results at each of the sample points is summarized in Table 2. Areas meeting the coastal wetlands definition (sum of all areas exhibiting dominance by hydrophytic vegetation and indicators of wetland hydrology) are mapped on the attached EIR Figures 4.3-4 and 4.3-5 and the area of each wetland polygon is quantified in Table 3. A total of 0.417 acres of coastal wetlands were found within the survey area.

**Table 2. Wetlands Sample Point Data Summary**

Sample Point no.	Location	Hydrophytic Vegetation Criterion met?	Wetland Hydrology Criterion met?	Coastal Wetland?
1	Depression near EOF back fence	Yes	Yes	Yes
2	North of Pier 421-2	Yes	Yes	Yes
3	Caisson 421-2 fill	Yes	No	Yes
4	Access road terminus near 421-2 Pier	Yes	Yes	Yes
5	Access roadway, bluff toe	Yes	No	Yes
6	Top of rock revetment slope	Yes	No	Yes
7	Bluff toe along access roadway	Yes	No	Yes
8	Bluff toe along access roadway	Yes	No	Yes
9	Access roadway and top of rock revetment slope	Yes	No	Yes
10	Bluff toe along access roadway	Yes	No	Yes
11	Top of rock revetment slope	Yes	No	Yes
12	Top of rock revetment slope	Yes	No	Yes
13	Bluff toe along access roadway	Yes	No	Yes
14	Bluff toe along access roadway	Yes	Yes	Yes
15	Top of rock revetment slope	Yes	No	Yes

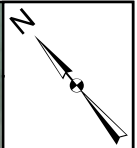
Sample Point no.	Location	Hydrophytic Vegetation Criterion met?	Wetland Hydrology Criterion met?	Coastal Wetland?
16	Rock revetment slope	Yes	No	Yes
17	Bluff toe along access roadway	Yes	No	Yes
18	On beach at irrigation run-off discharge	Yes	Yes	Yes
19	Bell Canyon Creek estuary	Yes	Yes	Yes

**Table 3. Wetlands Delineation Results**

Wetland no.	Location	Area (acres)
W-1	Depression near EOF back fence	0.005
W-2	North of Pier 421-2	0.117
W-3	Caisson 421-2 fill	0.003
W-4	Access road terminus near 421-2 Pier	0.037
W-5	Access roadway, bluff toe	0.007
W-6	Top of rock revetment slope	0.002
W-7	Bluff toe along access roadway	0.004
W-8	Bluff toe along access roadway	0.006
W-9	Access roadway and top of rock revetment slope	0.003
W-10	Bluff toe along access roadway	0.026
W-11	Top of rock revetment slope	0.002
W-12	Top of rock revetment slope	0.006
W-13	Bluff toe along access roadway	0.001
W-14	Bluff toe along access roadway	0.004
W-15	Top of rock revetment slope	0.002
W-16	Rock revetment slope	0.002
W-17	Bluff toe along access roadway	0.003
W-18	On beach at irrigation run-off discharge	0.007
W-19	Bell Canyon Creek estuary	0.18*
<b>Total</b>		<b>0.417</b>

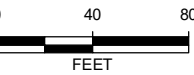
\*Saltmarsh area near beach





- LEGEND:**
- Survey Boundary
  - Wetlands

**MAP EXTENT:**



Source: Esri Online 'Clarity' Basemap  
Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet  
Notes: This map was created for informational and display purposes only.



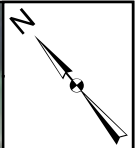
PROJECT NAME: ELLWOOD FIELD STATE LEASE PRC 421 SANTA BARBARA COUNTY, CA	
PROJECT NUMBER: 2102-0251	DATE: September 2021

**COASTAL WETLANDS MAP  
(1 OF 2)**

**FIGURE  
4.3-4**

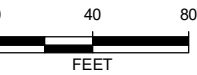
\\GIS\Projects\GIS Maps\Map Project\Ellwood Field State Lease 421\Wetland Map.mxd 9/1/2021





**LEGEND:**  
Survey Boundary  
Wetlands

**MAP EXTENT:**



Source: Esri Online 'Clarity' Basemap  
Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet  
Notes: This map was created for informational and display purposes only.

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associates, inc.  
ENGINEERS, GEOLOGISTS &  
ENVIRONMENTAL SCIENTISTS

PROJECT NAME:  
ELLWOOD FIELD STATE LEASE PRC 421  
SANTA BARBARA COUNTY, CA  
PROJECT NUMBER:  
2102-0251  
DATE:  
September 2021

**COASTAL WETLANDS MAP  
(2 OF 2)**

**FIGURE  
4.3-5**

FIG 4.3-5 Coastal Wetlands Map, Project Ellwood Field State Lease 421 Wetland Map.mxd, 9/1/2021



## **ATTACHMENT A**

### **VASCULAR PLANT FLORA OBSERVED IN THE VICINITY OF THE PRC 421 DECOMMISSIONING PROJECT SITE, GOLETA, CALIFORNIA**

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# Attachment A

## Vascular Plant Flora Observed in the Vicinity of the PRC 421 Decommissioning Project Site, Goleta, California

Scientific Name	Common Name	Habit	Family	Wetland Status	Invasiveness Rating
<i>Abronia umbellata</i> var. <i>umbellata</i>	Sand-verbena	PH	Nyctaginaceae	*	
<i>Agrostis exarata</i>	Western bent-grass	PG	Poaceae	FACW	
<i>Ambrosia chamissonis</i>	Beach bur	S	Asteraceae	*	
<i>Ambrosia psilostachya</i>	Western ragweed	PH	Asteraceae	FACU	
<i>Artemisia californica</i>	California sagebrush	S	Asteraceae	*	
<i>Arthrocnemum subterminale</i>	Parish's glasswort	PH	Chenopodiaceae	FACW	
<i>Arundo donax</i> *	Giant reed	PG	Poaceae	FACW	High
<i>Asparagus asparagoides</i> *	Wild asparagus	PV	Asparagaceae	*	
<i>Atriplex lentiformis</i>	Big saltbush	S	Chenopodiaceae	FAC	
<i>Atriplex leucophylla</i>	Beach saltbush	S	Chenopodiaceae	FAC	
<i>Atriplex prostrata</i> *	Fat-hen	AH	Chenopodiaceae	FACW	
<i>Atriplex semibaccata</i> *	Australian saltbush	PH	Chenopodiaceae	FAC	Moderate
<i>Baccharis pilularis</i>	Coyote brush	S	Asteraceae	*	
<i>Baccharis salicifolia</i>	Mule fat, seep-willow	S	Asteraceae	FAC	
<i>Bolboschoenus robustus</i>	Sea-coast bulrush	PH	Cyperaceae	OBL	
<i>Brassica rapa</i> *	Field mustard	AH	Brassicaceae	FACU	Limited
<i>Bromus catharticus</i> var. <i>catharticus</i> *	Rescue grass	AG	Poaceae	*	
<i>Bromus diandrus</i> *	Ripgut grass	AG	Poaceae	*	Moderate
<i>Bromus hordeaceus</i> *	Soft chess	AG	Poaceae	FACU	Limited
<i>Bromus rubens</i> *	Red brome	AG	Poaceae	UPL	High
<i>Cakile maritima</i> *	Sea rocket	AH	Brassicaceae	FAC	
<i>Camissoniopsis cheiranthifolia</i> ssp. <i>cheiranthifolia</i>	Beach primrose	PH	Onagraceae	*	
<i>Carduus pycnocephalus</i> *	Italian thistle	AH	Asteraceae	*	Moderate
<i>Carpobrotus edulis</i> *	Hottentot fig	PH	Aizoaceae	*	High
<i>Chenopodium macrospermum</i> *	Chenopodium	AH	Chenopodiaceae	FACW	
<i>Clematis ligusticifolia</i>	Virgin's bower	PV	Ranunculaceae	FAC	
<i>Conium maculatum</i> *	Poison hemlock	PH	Apiaceae	FACW	Moderate
<i>Cotula coronopifolia</i> *	Brass buttons	AH	Asteraceae	OBL	Limited
<i>Cynodon dactylon</i> *	Bermuda grass	PG	Poaceae	FACU	Moderate
<i>Datura wrightii</i>	Jimsonweed	PH	Solanaceae	UPL	
<i>Delairea odorata</i> *	Cape ivy	PV	Asteraceae	FAC	High
<i>Distichlis spicata</i>	Salt grass	PG	Poaceae	FAC	
<i>Elymus condensatus</i>	Giant wild rye	PG	Poaceae	*	
<i>Encelia californica</i>	California bush sunflower	S	Asteraceae	*	
<i>Erigeron canadensis</i>	Horse-weed	AH	Asteraceae	FACU	
<i>Eriogonum parvifolium</i>	Seacliff wild buckwheat	S	Polygonaceae	*	
<i>Erodium cicutarium</i> *	Redstem filaree	AH	Geraniaceae	*	Limited
<i>Eucalyptus globulus</i> *	Blue gum	T	Myrtaceae	*	Limited
<i>Euphorbia maculata</i> *	Spotted spurge	AH	Euphorbiaceae	UPL	
<i>Festuca perennis</i> *	Italian rye-grass	AG	Poaceae	FAC	Moderate
<i>Foeniculum vulgare</i> *	Sweet-fennel	PH	Apiaceae	*	Moderate
<i>Frankenia salina</i>	Alkali heath	S	Frankeniaceae	FACW	

**Attachment A**  
**Vascular Plant Flora Observed in the Vicinity of the PRC 421 Decommissioning Project Site, Goleta, California**

Scientific Name	Common Name	Habit	Family	Wetland Status	Invasiveness Rating
<i>Heliotropium curassivicum</i> var. <i>oculatum</i>	Seaside heliotrope	PH	Boraginaceae	FACU	
<i>Helminthotheca echioides</i> *	Bristly ox-tongue	AH	Asteraceae	FAC	Limited
<i>Hesperocyparis macrocarpa</i> **	Monterey cypress	T	Cupressaceae	*	
<i>Hirschfeldia incana</i> *	Summer mustard	BH	Brassicaceae	*	Moderate
<i>Isocoma menziesii</i> var. <i>menziesii</i>	Coastal golden-bush	S	Asteraceae	*	
<i>Jaumea carnosa</i>	Fleshy jaumea	PH	Asteraceae	OBL	
<i>Lactuca serriola</i> *	Prickly lettuce	AH	Asteraceae	FACU	
<i>Malacothrix saxatilis</i> var. <i>saxatilis</i>	Cliff malacothrix	PH	Asteraceae	*	
<i>Malva parviflora</i> *	Cheese-weed	AH	Malvaceae	*	
<i>Malvella leprosa</i>	Alkali mallow	AH	Malvaceae	FACU	
<i>Melilotus albus</i> *	White sweet-clover	PH	Fabaceae	*	
<i>Melilotus indicus</i> *	Sour-clover	BH	Fabaceae	FACU	
<i>Myoporum laetum</i> *	Myoporum	T	Scrophulariaceae	FACU	Moderate
<i>Nicotiana glauca</i> *	Tree tobacco	S	Solanaceae	FAC	Moderate
<i>Opuntia littoralis</i>	Coast prickly-pear	S	Cactaceae	*	
<i>Paspalum dilatatum</i> *	Dallis grass	PG	Poaceae	FAC	
<i>Pennisetum clandestinum</i> *	Kikuyu grass	PG	Poaceae	*	Limited
<i>Phoenix canariensis</i> **	Canary Island date palm	T	Arecaceae	*	
<i>Plantago coronopus</i> *	Plantain	AH	Plantaginaceae	FAC	
<i>Platanus racemosa</i>	Western sycamore	T	Plantanaceae	FAC	
<i>Polygonum aviculare</i> *	Knot-weed	AH	Polygonaceae	FAC	
<i>Polypogon monspeliensis</i> *	Annual beard grass	AG	Poaceae	FACW	Limited
<i>Portulaca oleracea</i> *	Purslane	AH	Portulacaceae	FAC	
<i>Pseudognaphalium luteoalbum</i> *	Weedy cudweed	BH	Asteraceae	FAC	
<i>Quercus agrifolia</i> var. <i>agrifolia</i>	Coast live oak	T	Fagaceae	*	
<i>Ricinus communis</i> *	Castor bean	S	Euphorbiaceae	FACU	Limited
<i>Rosa californica</i>	California wildrose	S	Rosaceae	FAC	
<i>Rubus ursinus</i>	California blackberry	PV	Rosaceae	FAC	
<i>Rumex crispus</i> *	Curly dock	PH	Polygonaceae	FAC	Limited
<i>Salix lasiolepis</i>	Arroyo willow	T	Salicaceae	FACW	
<i>Salsola tragus</i> *	Russian thistle	AH	Chenopodiaceae	FACU	Limited
<i>Schoenoplectus californicus</i>	California bulrush	PH	Cyperaceae	OBL	
<i>Scrophularia californica</i>	California figwort	PH	Scrophulariaceae	FAC	
<i>Solanum douglasii</i>	White nightshade	AH	Solanaceae	FAC	
<i>Solanum xanti</i>	Purple nightshade	PH	Solanaceae	*	
<i>Sonchus oleraceus</i> *	Common sow thistle	AH	Asteraceae	UPL	
<i>Spegularia bocconi</i> *	Boccone's sand-spurrey	AH	Caryophyllaceae	FACW	
<i>Spergularia marina</i>	Saltmarsh sand-spurrey	AH	Caryophyllaceae	OBL	
<i>Tamarix ramosissima</i> *	Salt cedar	T	Tamaricaceae	*	High
<i>Tetragonia tetragoniodes</i> *	New Zealand spinach	AH	Aizoaceae	*	Limited
<i>Toxicodendron diversilobum</i>	Poison oak	S	Anacardiaceae	FACU	
<i>Typha latifolia</i>	Broad-leaf cattail	S	Typhaceae	OBL	

**Attachment A**  
**Vascular Plant Flora Observed in the Vicinity of the PRC 421 Decommissioning Project Site, Goleta, California**

Scientific Name	Common Name	Habit	Family	Wetland Status	Invasiveness Rating
<i>Typha domingensis</i>	Southern cattail	S	Typhaceae	OBL	Moderate
<i>Washingtonia robusta</i> *	Mexican fan palm	T	Areaceae	FACW	
<i>Xanthium strumarium</i>	Cockle-bur	AH	Asteraceae	FAC	

**Notes:**

Scientific nomenclature follows The Jepson Manual Second Edition (Baldwin et al., 2012), including supplements (old names in brackets).

An "\*" indicates non-native species which have become naturalized or persist without cultivation.

An "\*\*\*" indicates species which have been planted and may not persist without cultivation.

**Habit Definitions:**

AF = annual fern or fern ally.  
 AG = annual grass.  
 AH = annual herb.  
 BH = biennial herb.  
 PF = perennial fern or fern ally.  
 PG = perennial grass.  
 PH = perennial herb.  
 PV = perennial vine.  
 S = shrub.  
 T = tree.

Invasiveness Rating from the online database of the California Invasive Plant Council

**Wetland Status from Arid West 2018 Regional Wetland Plant List**

OBL - Obligate wetland: almost always occurs in wetlands (>99% probability)  
 FACW - Facultative-Wetland: usually occurs in wetlands (67-99% probability)  
 FAC - Facultative: equally likely to occur in wetlands or non-wetlands (34-66% probability)  
 FACU - Facultative-Upland: usually occurs in non-wetlands (1-33% probability)  
 UPL - Upland: almost always occurs in non-wetlands (>99% probability)  
 \*: not addressed in the wetland plant list, non-wetland species

## **ATTACHMENT B**

### **WETLAND DETERMINATION DATA FORMS**

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**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 1  
 Investigator(s): Ingamello Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.43002 Long: 119.91186 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Milpitas - Positar fine sandy loam NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ <u>Coastal</u>
Remarks: <div style="font-size: 1.2em; text-align: center;">Located at EDF back gate</div>	

**VEGETATION – Use scientific names of plants.**

<p><b>Tree Stratum</b> (Plot size: <u>10 m diameter</u>)</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">Species</th> <th style="width:15%;">Absolute % Cover</th> <th style="width:15%;">Dominant Species?</th> <th style="width:30%;">Indicator Status</th> </tr> </thead> <tbody> <tr> <td>1. <u>Eucalyptus globulus</u></td> <td align="center"><u>100</u></td> <td align="center"><u>Yes</u></td> <td align="center"><u>UPL</u></td> </tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> </tbody> </table> <p align="right"><u>100</u> = Total Cover</p> <p><b>Sapling/Shrub Stratum</b> (Plot size: _____)</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> </table> <p align="right">_____ = Total Cover</p> <p><b>Herb Stratum</b> (Plot size: <u>3 m diameter</u>)</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">Species</th> <th style="width:15%;">Absolute % Cover</th> <th style="width:15%;">Dominant Species?</th> <th style="width:30%;">Indicator Status</th> </tr> </thead> <tbody> <tr> <td>1. <u>Cotula coronopifolia</u></td> <td align="center"><u>30</u></td> <td align="center"><u>Yes</u></td> <td align="center"><u>OBL</u></td> </tr> <tr> <td>2. <u>Helminthotheca echioides</u></td> <td align="center"><u>40</u></td> <td align="center"><u>Yes</u></td> <td align="center"><u>FAC</u></td> </tr> <tr> <td>3. <u>Atriplex parviflora</u></td> <td align="center"><u>5</u></td> <td align="center"><u>No</u></td> <td align="center"><u>FACW</u></td> </tr> <tr> <td>4. <u>Distichlis spicata</u></td> <td align="center"><u>25</u></td> <td align="center"><u>Yes</u></td> <td align="center"><u>FAC</u></td> </tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> </tbody> </table> <p align="right"><u>100</u> = Total Cover</p> <p><b>Woody Vine Stratum</b> (Plot size: _____)</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> </table> <p align="right">_____ = Total Cover</p> <p>% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____</p>	Species	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Eucalyptus globulus</u>	<u>100</u>	<u>Yes</u>	<u>UPL</u>	2. _____				3. _____				4. _____				1. _____				2. _____				3. _____				4. _____				5. _____				Species	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Cotula coronopifolia</u>	<u>30</u>	<u>Yes</u>	<u>OBL</u>	2. <u>Helminthotheca echioides</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	3. <u>Atriplex parviflora</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	4. <u>Distichlis spicata</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>	5. _____				6. _____				7. _____				8. _____				1. _____				2. _____				<p><b>Dominance Test worksheet:</b></p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>4</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)</p> <p><b>Prevalence Index worksheet:</b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">Total % Cover of:</th> <th style="width:60%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>65</u></td> <td>x 3 = <u>195</u></td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species <u>100</u></td> <td>x 5 = <u>500</u></td> </tr> <tr> <td>Column Totals: <u>200</u> (A)</td> <td>_____ (B)</td> </tr> </tbody> </table> <p>Prevalence Index = B/A = <u>3.7</u></p> <p><b>Hydrophytic Vegetation Indicators:</b></p> <p><input checked="" type="checkbox"/> Dominance Test is &gt;50%  <input type="checkbox"/> Prevalence Index is ≤3.0<sup>1</sup>  <input type="checkbox"/> Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  <input type="checkbox"/> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</p> <p><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p><b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____</p>	Total % Cover of:	Multiply by:	OBL species <u>30</u>	x 1 = <u>30</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>65</u>	x 3 = <u>195</u>	FACU species _____	x 4 = _____	UPL species <u>100</u>	x 5 = <u>500</u>	Column Totals: <u>200</u> (A)	_____ (B)
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Remarks:																																																																																																			

Sampling Point:

## HYDROLOGY

US Army Corps of Engineers

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 2  
 Investigator(s): Ingamells Section, Township, Range: 74N R 29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%):  
 Subregion (LRR): LRR-C Lat: 34.42548 Long: 119.90756 Datum:  
 Soil Map Unit Name: Milpitas - Positas fine sandy loam NWI classification: NA  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>100</u> x 1 = <u>100</u> FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>100</u> (A) <u>100</u> (B) Prevalence Index = B/A = <u>1.3</u>
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
_____ = Total Cover				
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_____ = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
_____ = Total Cover				
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_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				<b>Remarks:</b>  
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				





**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 3  
 Investigator(s): Ingamello Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRP-C Lat: 34.42506 Long: 119.90773 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: M2-4SN  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ (Coastal)
Remarks: <p align="center"><u>canyon fill 0 421-2</u></p>	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ = Total Cover				<b>Prevalence Index worksheet:</b> <table style="width:100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species <u>80</u></td> <td>x 2 = <u>160</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.2</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species <u>80</u>	x 2 = <u>160</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: <u>100</u> (A)	<u>220</u> (B)	Prevalence Index = B/A = <u>2.2</u>	
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Column Totals: <u>100</u> (A)	<u>220</u> (B)																			
Prevalence Index = B/A = <u>2.2</u>																				
<b>Sapling/Shrub Stratum (Plot size: _____)</b> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover																				
<b>Herb Stratum (Plot size: <u>3 m. diameter</u>)</b> 1. <u>Dioscorea spicata</u> <u>20</u> <u>Yes</u> <u>FAC</u> 2. <u>Arthrocnemum subterminale</u> <u>80</u> <u>Yes</u> <u>FACW</u> 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ _____ = Total Cover																				
<b>Woody Vine Stratum (Plot size: _____)</b> 1. _____ 2. _____ _____ = Total Cover																				
<b>% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____</b>																				
Remarks:																				

## SOIL

Sampling Point: 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 <sup>1</sup>		

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

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

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

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

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

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

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_ (includes capillary fringe)

**Wetland Hydrology Present?** Yes \_\_\_\_\_ No \_\_\_\_\_

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

Remarks:

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 4  
 Investigator(s): Ingamells Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.42538 Long: 119.90750 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ (Coastal)
Remarks: <p align="center"><u>Access road terminates at 421-2 pier</u></p>	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:														
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)														
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)														
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)														
4. _____	_____	_____	_____															
_____ = Total Cover																		
<b>Sapling/Shrub Stratum (Plot size: _____)</b>																		
1. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> <table style="width:100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species <u>3</u></td> <td>x 5 = <u>15</u></td> </tr> <tr> <td>Column Totals: <u>63</u></td> <td>(A) <u>135</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species _____	x 4 = _____	UPL species <u>3</u>	x 5 = <u>15</u>	Column Totals: <u>63</u>	(A) <u>135</u>
Total % Cover of:	Multiply by:																	
OBL species <u>5</u>	x 1 = <u>5</u>																	
FACW species <u>50</u>	x 2 = <u>100</u>																	
FAC species <u>5</u>	x 3 = <u>15</u>																	
FACU species _____	x 4 = _____																	
UPL species <u>3</u>	x 5 = <u>15</u>																	
Column Totals: <u>63</u>	(A) <u>135</u>																	
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
_____ = Total Cover																		
<b>Herb Stratum (Plot size: <u>3m. dia.</u>)</b>																		
1. <u>Polypogon monspeliensis</u>	<u>50</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index = B/A = <u>2.1</u>  <b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)														
2. <u>Atriplex lentiformis (seedling)</u>	<u>2</u>	<u>No</u>	<u>FAC</u>															
3. <u>Cotula coronopifolia</u>	<u>2</u>	<u>No</u>	<u>OBL</u>															
4. <u>Spergularia maritima</u>	<u>3</u>	<u>Yes</u>	<u>OBL</u>															
5. <u>Melilotus albus</u>	<u>3</u>	<u>Yes</u>	<u>UPL</u>															
6. <u>Distichlis spicata</u>	<u>3</u>	<u>Yes</u>	<u>FAC</u>															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
<u>63</u> = Total Cover																		
<b>Woody Vine Stratum (Plot size: _____)</b>																		
1. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. _____	_____	_____	_____															
_____ = Total Cover																		
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____														
Remarks:																		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 5  
 Investigator(s): Ingamells Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%):  
 Subregion (LRR): LRR-C Lat: 34.42568 Long: 119.80797 Datum:  
 Soil Map Unit Name: Beaches NWI classification:  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No (If no, explain in Remarks.)  
 Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No  
 Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No (Coastal)
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No	
Remarks: <u>Area = ~65' x 5', bluff toe</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
Sapling/Shrub Stratum (Plot size: <u>5 m diameter</u> ) = Total Cover				
1. <u>Frankenia salina</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>	
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: <u>3 m diameter</u> ) = Total Cover				
1. <u>Polygouon monspeliensis</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Atriplex lentiformis (seedlings)</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Sonchus oleraceus</u>	<u>2</u>	<u>Yes</u>	<u>UPL</u>	
4. <u>Helminthotheca celsoides</u>	<u>1</u>	<u>Yes</u>	<u>FAC</u>	
5. _____				
6. _____				
7. _____				
8. _____				
Woody Vine Stratum (Plot size:)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				



# SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features			Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	Color (moist)	%	Color (moist)	%					

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

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

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No _____
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Remarks:

# HYDROLOGY

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

<b>Field Observations:</b> 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:

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 6  
 Investigator(s): Ingamello Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.42583 Long: 119.90819 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <div style="text-align: center; font-size: 1.2em;">~ 18' x 6', top of rock revetment slope</div>	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____				
_____ = Total Cover				<b>Prevalence Index worksheet:</b>
Sapling/Shrub Stratum (Plot size: <u>5 m. diam</u> )				Total % Cover of: _____ Multiply by: _____
1. <u>Frankenia salina</u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	OBL species _____ x 1 = _____
2. <u>Atriplex confertifolia</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	FACW species <u>70</u> x 2 = <u>140</u>
3. _____				FAC species <u>20</u> x 3 = <u>60</u>
4. _____				FACU species _____ x 4 = _____
5. _____				UPL species _____ x 5 = _____
<u>90</u> = Total Cover				Column Totals: <u>90</u> (A) <u>200</u> (B)
Herb Stratum (Plot size: _____)				Prevalence Index = B/A = <u>2.2</u>
1. _____				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
_____ = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				





# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 7  
 Investigator(s): Ingamello Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%):  
 Subregion (LRR): LRR-C Lat: 34.42583 Long: 119.90819 Datum:  
 Soil Map Unit Name: Beaches NWI classification:

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No (coastal)
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No	
Remarks: <u>~ 32' x 6' bluff toe</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: )	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>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1.				
2.				
3.				
4.				
= Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>20</u> x 1 = <u>20</u> FACW species <u>80</u> x 2 = <u>160</u> FAC species <u>80</u> x 3 = <u>240</u> FACU species <u>80</u> x 4 = <u>320</u> UPL species <u>100</u> x 5 = <u>500</u> Column Totals: <u>100</u> (A) <u>1200</u> (B) Prevalence Index = B/A = <u>12</u>
Sapling/Shrub Stratum (Plot size: <u>5 m. dia</u> )				
1. <u>Frankenia salina</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Atriplex lentiformis</u>	<u>80</u>	<u>Yes</u>	<u>FAC</u>	
3.				
= Total Cover				
Herb Stratum (Plot size: )				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1.				
2.				
3.				
4.				
= Total Cover				
Woody Vine Stratum (Plot size: )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No
1.				
2.				
= Total Cover				
% Bare Ground in Herb Stratum % Cover of Biotic Crust				
Remarks:				

Sampling Point:

7

## HYDROLOGY

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

**Field Observations:**

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

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 8  
 Investigator(s): Ingamells Section, Township, Range: 74N R 29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.42001 Long: 119.90842 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <div style="text-align: center; font-size: 1.2em;">~ 20' x 12' @ bluff toe near base of PRC 421</div>	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>5 m. dia.</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Frankenia salina</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Atriplex lentiformis</u>	<u>75</u>	<u>Yes</u>	<u>FAC</u>	OBL species _____ x 1 = _____
3. _____				FACW species <u>25</u> x 2 = <u>50</u>
4. _____				FAC species <u>75</u> x 3 = <u>225</u>
5. _____				FACU species _____ x 4 = _____
<u>100</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: <u>100</u> (A) <u>275</u> (B)
				Prevalence Index = B/A = <u>2.8</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. _____				<input checked="" type="checkbox"/> Dominance Test is >50%
2. _____				<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>
3. _____				<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
Remarks:				

Sampling Point: 8

## HYDROLOGY

US Army Corps of Engineers

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 9  
 Investigator(s): Ingamello Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.42624 Long: 119.90871 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ (coastal)
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <u>~38' x 3' along center of access road and top of rock revetment slope</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	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>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> ____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>3 m. dia.</u> )				
1. <u>Polypogon monspeliensis</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Atriplex confertifolia (seedlings)</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Remarks:
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				



Sampling Point: 9

[illegible]

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

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

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

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

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

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No
----------------------	-----	----

HYDROLOGY

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

Secondary Indicators (2 or more required)

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

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

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

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

Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks:

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 10  
 Investigator(s): Ingamells Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%):       
 Subregion (LRR): LRR-C Lat: 34.42699 Long: 119.90959 Datum:       
 Soil Map Unit Name: Beaches NWI classification:       
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? (cont'd)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Remarks: <u>~ 223' x 5' ~ Bluff toe</u>			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	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>    </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>	
<u>    </u> = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<u>45</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>5 m dia</u> )				
1. <u>Atroplex lentiformis</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Frankenia Salina</u>	<u>5</u>	<u>Yes</u>	<u>FACW</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>45</u> = Total Cover				
Herb Stratum (Plot size: <u>    </u> )				
1. <u>Distichlis spicata</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	Remarks:
2. <u>Carpobrotus edulis</u>	<u>15</u>	<u>Yes</u>	<u>UPL</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>	
<u>55</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>    </u> )				
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	Remarks:
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
% Bare Ground in Herb Stratum <u>    </u> % Cover of Biotic Crust <u>    </u>				



Sampling Point: 10

## HYDROLOGY

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 11  
 Investigator(s): Ingamello Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 31.42696 Long: 119.90951 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? (partial) Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present?	Yes _____ No _____	
Wetland Hydrology Present?	Yes _____ No _____	
Remarks: <u>~ 12' x 6' triangular area @ top of rock revetment slope</u>		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	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>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Sapling/Shrub Stratum (Plot size: <u>5 m. dia.</u> )	_____	_____	_____	
1. <u>Adiantum latifolium</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
Herb Stratum (Plot size: <u>3 m. dia.</u> )	_____	_____	_____	
1. <u>Distichlis spicata</u>	<u>90</u>	<u>Yes</u>	<u>FAC</u>	Remarks:
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	Remarks:
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Remarks:
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	Remarks:
8. _____	_____	_____	_____	
= Total Cover				Remarks:
Woody Vine Stratum (Plot size: _____)	_____	_____	_____	
1. _____	_____	_____	_____	Remarks:
2. _____	_____	_____	_____	
= Total Cover				Remarks:
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			

Sampling Point: 17

## HYDROLOGY

US Army Corps of Engineers

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 12  
 Investigator(s): Ingamells Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.4273 Long: 119.90976 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ (Coastal)
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <u>~ 50' x 5' ~ top of rock revetment slope</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	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>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>5 m. dia.</u> )				
1. <u>Baccharis pilularis</u>	<u>30</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Atriplex lentiformis</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>3 m. dia.</u> )				
1. <u>Distichlis spicata</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			
Remarks:				



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 13  
 Investigator(s): Ingamello Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%):  
 Subregion (LRR): LRR-C Lat: 34.42740 Long: 119.91014 Datum:  
 Soil Map Unit Name: Beaches NWI classification:  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? ( <u>coastal</u> )	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Remarks: <u>~ 18' x 2' w bluff toe</u>			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	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>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>70</u> x 3 = <u>210</u> FACU species _____ x 4 = _____ UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>80</u> (A) <u>260</u> (B)  Prevalence Index = B/A = <u>3.3</u>
Sapling/Shrub Stratum (Plot size: <u>5 m. dia</u> )				
1. <u>Baccharis pilularis</u>	<u>10</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Atriplex lentiformis</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
3. _____				
4. _____				
5. _____				
_____ = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: <u>3 m. dia</u> )				
1. <u>Distichlis spicata</u>	<u>60</u>	<u>Yes</u>	<u>FAC</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
_____ = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
_____ = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				





# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 14  
 Investigator(s): Ingamells Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%):       
 Subregion (LRR): LRR-C Lat: 34.42757 Long: 119.91083 Datum:       
 Soil Map Unit Name: Beaches NWI classification:       
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? (Coastal)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks: <u>~ 90' x 12' along bluff toe</u>			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
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>	
<u>    </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>    </u> Multiply by: OBL species <u>    </u> x 1 = <u>    </u> FACW species <u>    </u> x 2 = <u>    </u> FAC species <u>77</u> x 3 = <u>231</u> FACU species <u>    </u> x 4 = <u>    </u> UPL species <u>25</u> x 5 = <u>125</u> Column Totals: <u>102</u> (A) <u>356</u> (B)  Prevalence Index = B/A = <u>3.5</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>5 m. dia</u> )				
1. <u>Atriplex lentiformis</u>	<u>2</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>2</u> = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>3 m. dia</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Distichlis spicata</u>	<u>65</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Carpobrotus edulis</u>	<u>25</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Polypogon monspeliensis</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>100</u> = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>    </u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>    </u> = Total Cover				
% Bare Ground in Herb Stratum <u>    </u> % Cover of Biotic Crust <u>    </u>				
Remarks:				



# SOIL

Sampling Point: 14

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 <sup>1</sup>			

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

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

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No _____
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Remarks:

# HYDROLOGY

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

<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2 to surface</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 15  
 Investigator(s): Ingamello Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.42752 Long: 119.91034 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Beaches NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____ Remarks: <u>10' x 10' w top of rock recement slope</u>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ <u>(Coastal)</u>
--	--

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>100</u> x 3 = <u>300</u> FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>100</u> (A) <u>300</u> (B)  Prevalence Index = B/A = <u>3.0</u>
<b>Sapling/Shrub Stratum (Plot size: <u>5 m. dia.</u>)</b>				
1. <u>Atriplex lentiformis</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
= Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<b>Herb Stratum (Plot size: <u>3 m. dia.</u>)</b>				
1. <u>Distichlis spicata</u>	<u>95</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
= Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Woody Vine Stratum (Plot size: _____)</b>				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

Sampling Point:

15

[illegible]

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

### Indicators for Problematic Hydric Soils<sup>3</sup>:

Histosol (A1) Sandy Redox (S5)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

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

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

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

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:

### Wetland Hydrology Indicators:

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

Secondary Indicators (2 or more required)

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

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

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (Inches): \_\_\_\_\_

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

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks:

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 16  
 Investigator(s): Ingamello Section, Township, Range: T4N R29W  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LRR-C Lat: 34.42786 Long: 119.91083 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Becker NWI classification: \_\_\_\_\_

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <u>~12' x 8' on rock revetment slope</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum (Plot size: <u>3 m dia</u> )				
1. <u>Dioscorea spicata</u>	<u>75</u>	<u>Yes</u>	<u>FAC</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			
Remarks:				

# SOIL

Sampling Point: 16

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 <sup>1</sup>			

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No _____
Remarks:	

# HYDROLOGY

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

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

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 17  
 Investigator(s): Ingamello Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
 Subregion (LRR): LPR-C Lat: 34.42801 Long: 119.91103 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Bleeker NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ (coastal)
Remarks: <p align="center"><i>~ 32' x 4' bluff toe and roadway</i></p>	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species <u>30</u> x 2 = <u>60</u> FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>60</u> x 4 = <u>240</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>98</u> (A) <u>334</u> (B)  Prevalence Index = B/A = <u>3.4</u>
<b>Sapling/Shrub Stratum (Plot size: <u>5 m. dia.</u>)</b>				
1. <u>Atriplex lentiformis</u>	<u>3</u>	<u>Yes</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
= Total Cover				
<b>Herb Stratum (Plot size: <u>3 m. dia.</u>)</b>				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Polypogon monspeliensis</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Heliotropium curassavicum</u>	<u>60</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Carpobrotus edulis</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
= Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				



# SOIL

Sampling Point: 17

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

Depth (inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	Color (moist)	%	Color (moist)	%				

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

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

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

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

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:

# HYDROLOGY

**Wetland Hydrology Indicators:**

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

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(Includes capillary fringe)

**Wetland Hydrology Present?** Yes \_\_\_\_\_ No \_\_\_\_\_

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

Remarks:

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
 Applicant/Owner: State Lands Commission State: CA Sampling Point: 18  
 Investigator(s): Ingamello Section, Township, Range: 74N R29W  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%):  
 Subregion (LRR): LRR-C Lat: 34.42836 Long: 119.91165 Datum:  
 Soil Map Unit Name: Blaeker NWI classification: M2USP  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (Coastal)
Hydric Soil Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: <u>On beach at irrigation run-off discharge, 20' x 15'</u>		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>50</u> x 1 = <u>50</u> FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species <u>50</u> x 4 = <u>200</u> UPL species _____ x 5 = _____ Column Totals: <u>100</u> (A) <u>250</u> (B) Prevalence Index = B/A = <u>2.5</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>5 m. dia</u> )				
1. <u>Myoporum laetum</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>	
2. _____				
3. _____				
4. _____				
5. _____				
= Total Cover				
<b>Herb Stratum</b> (Plot size: <u>3 m. dia</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Balboschoenus robustus</u>	<u>30</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Schoenoplectus californicus</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
= Total Cover				
<b>Woody Vine Stratum</b> (Plot size: _____)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:				



Sampling Point: 18

## HYDROLOGY

US Army Corps of Engineers

Project/Site: PRC 421 Decommissioning City/County: Goleta Sampling Date: 8/23/21  
Applicant/Owner: State Lands Commission State: CA Sampling Point: 19  
Investigator(s): Ingamells Section, Township, Range: T4N R29W  
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): \_\_\_\_\_  
Subregion (LRR): LRR-C Lat: 34.42925 Long: 119.91277 Datum: \_\_\_\_\_  
Soil Map Unit Name: Goleta lean 0-2% slopes NWI classification: E2EM1P  
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.)

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Coastal	
Remarks: Brackish marsh at Bell Canyon Creek Estuary			

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
		_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____			
2.	_____			
3.	_____			
4.	_____			
5.	_____			
		_____ = Total Cover		
Herb Stratum (Plot size: <u>3 m. dia.</u> )				
1.	<u>Dioscorea spicata</u>	<u>80</u>	<u>Yes</u>	<u>FAC</u>
2.	<u>Taenia caroliniana</u>	<u>15</u>	<u>No</u>	<u>OBL</u>
3.	<u>Bolboschoenus robustus</u>	<u>5</u>	<u>No</u>	<u>OBL</u>
4.	_____			
5.	_____			
6.	_____			
7.	_____			
8.	_____			
		<u>100</u> = Total Cover		
Woody Vine Stratum (Plot size: _____)				
1.	_____			
2.	_____			
		_____ = Total Cover		
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		
Remarks: _____				

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100%</u> (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>20</u>	x 1 = <u>20</u>
FACW species _____	x 2 = _____
FAC species <u>80</u>	x 3 = <u>240</u>
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: <u>100</u> (A)	<u>260</u> (B)
Prevalence Index = B/A = <u>2.6</u>	
Hydrophytic Vegetation Indicators:	
<input checked="" type="checkbox"/> Dominance Test is >50%	
<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>	
____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No _____

## SOIL

Sampling Point: 19

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 <sup>1</sup>			

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

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

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No _____
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Remarks:

## HYDROLOGY

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

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input checked="" type="checkbox"/> No _____    Depth (inches): <u>&lt; 6</u> (includes capillary fringe)		Wetland Hydrology Present?    Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

*Presumed saturated based on field observations*