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

<sup>\*</sup>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

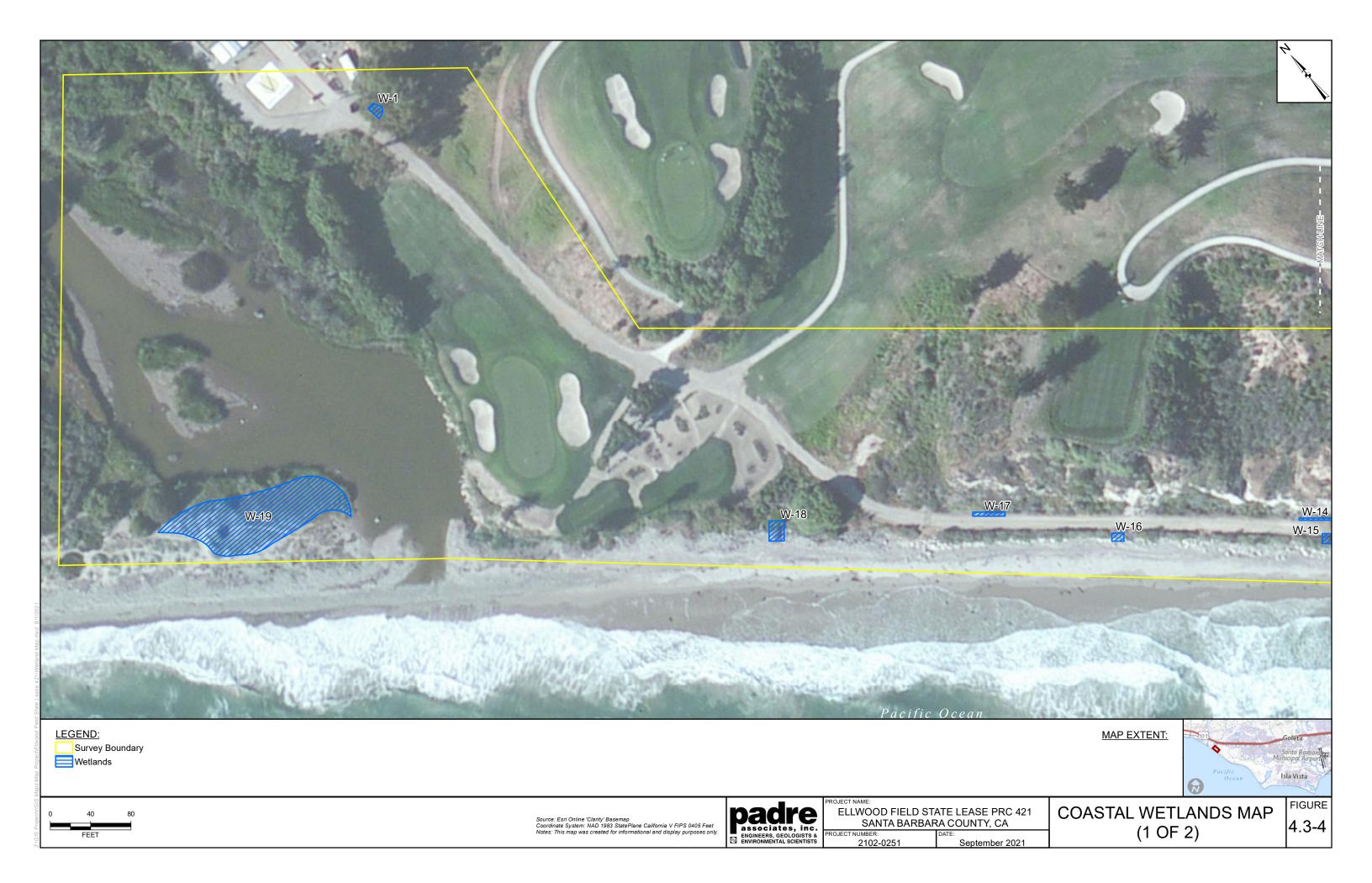


Sample Point no.	Location	Hydrophytic Vegetation Criterion met?	Wetland Hydrology Criterion met?	Coastal Wetland?
16	Rock revetment slope	Yes	No	Yes
17	Bluff toe along access roadway	Yes	No	Yes
18	On beach at irrigation run-off discharge	Yes	Yes	Yes
19	Bell Canyon Creek estuary	Yes	Yes	Yes

**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*
Total		0.417

<sup>\*</sup>Saltmarsh area near beach





### **ATTACHMENT A**

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

Attachment A

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

				Wetland	Invasiveness
Scientific Name	Common Name	Habit	Family	Status	Rating
Abronia umbellata var. umbellatta	Sand-verbena	PH	Nyctaginaceae	*	· ·
Agrostis exarata	Western bent-grass	PG	Poaceae	FACW	
Ambrosia chamissonis	Beach bur	S	Asteraceae	*	
Ambrosia psilostachya	Western ragweed	PH	Asteraceae	FACU	
Artemisia californica	California sagebrush	S	Asteraceae	*	
Arthrocnemum subterminale	Parish's glasswort	PH	Chenopodiaceae	FACW	
Arundo donax*	Giant reed	PG	Poaceae	FACW	High
Asparagus asparagoides*	Wild aparagus	PV	Asparagaceae	*	
Atriplex lentiformis	Big saltbush	S	Chenopodiaceae	FAC	
Atriplex leucophylla	Beach saltbush	S	Chenopodiaceae	FAC	
Atriplex prostrata*	Fat-hen	AH	Chenopodiaceae	FACW	
Atriplex semibaccata*	Australian saltbush	PH	Chenopodiaceae	FAC	Moderate
Baccharis pilularis	Coyote brush	S	Asteraceae	*	
Baccharis salicifolia	Mule fat, seep-willow	S	Asteraceae	FAC	
Bolboschoenus robustus	Sea-coast bulrush	PH	Cyperaceae	OBL	
Brassica rapa*	Field mustard	AH	Brassicaceae	FACU	Limited
Bromus catharticus var. catharticus*	Rescue grass	AG	Poaceae	*	
Bromus diandrus*	Ripgut grass	AG	Poaceae	*	Moderate
Bromus hordeaceus*	Soft chess	AG	Poaceae	FACU	Limited
Bromus rubens*	Red brome	AG	Poaceae	UPL	High
Cakile maritima*	Sea rocket	AH	Brassicaceae	FAC	
Camissoniopsis cheiranthifolia ssp. cheiranthifolia	Beach primrose	PH	Onagraceae	*	
Carduus pycnocephalus*	Italian thistle	AH	Asteraceae	*	Moderate
Carpobrotus edulis*	Hottentot fig	PH	Aizoaceae	*	High
Chenopodium macrospermum*	Chenopodium	AH	Chenopodiaceae	FACW	
Clematis ligusticifolia	Virgin's bower	PV	Ranunculaceae	FAC	
Conium maculatum*	Poison hemlock	PH	Apiaceae	FACW	Moderate
Cotula coronopifolia*	Brass buttons	AH	Asteraceae	OBL	Limited
Cynodon dactylon*	Bermuda grass	PG	Poaceae	FACU	Moderate
Datura wrightii	Jimsonweed	PH	Solanaceae	UPL	
Delairea odorata*	Cape ivy	PV	Asteraceae	FAC	High
Distichlis spicata	Salt grass	PG	Poaceae	FAC	
Elymus condensatus	Giant wild rye	PG	Poaceae	*	
Encelia californica	California bush sunflower	S	Asteraceae	*	
Erigeron canadensis	Horse-weed	AH	Asteraceae	FACU	
Eriogonum parvifolium	Seacliff wild buckwheat	S	Polygonaceae	*	
Erodium cicutarium*	Redstem filaree	AH	Geraniaceae	*	Limited
Eucalyptus globulus*	Blue gum	Т	Myrtaceae	*	Limited
Euphorbia maculata*	Spotted spurge	AH	Euphorbiaceae	UPL	
Festuca perennis*	Italian rye-grass	AG	Poaceae	FAC	Moderate
Foeniculum vulgare*	Sweet-fennel	PH	Apiaceae	*	Moderate
Frankenia salina					

Attachment A

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

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

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

				Wetland	Invasiveness
Scientific Name	Common Name	Habit	Family	Status	Rating
Typha domingensis	Southern cattail	S	Typhaceae	OBL	
Washingtonia robusta*	Mexican fan palm	T .	Arecaceae	FACW	Moderate
Xanthium strumarium	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**

	**			- Arid West Region
Project/Site: PRC 421 Decommi				2.0
Applicant/Owner: State Cands 6	ommi	bsion		State: CT Sampling Point:
		Section, Tow		
Landform (hillslope, terrace, etc.): Tlova CC		Local relief (	concave, c	convex, none): 1000 Slope (%):
				Long: 119, 91186 Datum:
Soil Map Unit Name: Milpitar - Positar t	R Sand	ly lour	n,	NWI classification:
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ar? Yes	V No_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed?	Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soit, or Hydrology r	aturally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampling	point lo	ocations, transects, important features, etc.
Hydric Soil Present? Yes N	o	within	Sampled n a Wetlan Co 454a	d? Yes No
Located at	ED	F bi	rek	gate
VEGETATION – Use scientific names of plan				
Tree Stratum (Plot size: 10 m dia meter 1. Euchyptus globulus	Absolute % Cover	Dominant Species?		Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2.	-	·		Total Number of Dominant
3				Species Across All Strata: (B)
4	100	= Total Cov	'er'	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sepling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
3.				OBL species 30 x1= 30
4.				FACW species 5 x2= 10
5.				FAC species 65 x3= 19)
- 1. 1		= Total Cov	er	FACU species x 4 =
Herb Stratum (Plot size: 3 m. drambter	マヘ	[/	nQ1	UPL species 100 x5= 500
1. Cotala coronopitalia	10	401	TOL	Column Totals: 200 (A) (B)
2. Helmin the theca echivides		465	TAG	1 Brancheson Indon a BIA a 3 7
3. Attribles practigite	2	Yes .	TAC	Prevalence Index = B/A =
4. Distichlis spicata	23	10	Lec	Dominance Test is >50%
5.				Prevalence Index is ≤3.0¹
6	-			Morphological Adaptations <sup>1</sup> (Provide supporting
7,	•			data in Remarks or on a separate sheet)
8	100	_ = Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)			100-1511	1
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	-	-T-1-10		
% Bare Ground in Herb Stratum % Cove	r of Biotic C	_ = Total Cov Crust _		Hydrophytic Vegetation Present? Yes No
Remarks:				

Profile Description: (Describe to the depth need Depth Matrix	ed to document the indicator or co	onfirm the absence of indicators.)
	Redox Features	
(inches) Color (moist) % Colo	r (moist) % Type¹ Lo	oc <sup>2</sup> Texture Remarks
	Francisco Franci	***************************************
The second secon		
Type: C=Concentration, D≕Depletion, RM=Reduce	d Matrix, CS=Covered or Coated Sar	nd Grains. <sup>2</sup> Location: PL≔Pore Lining, M≔Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, u	nless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain In Remarks)
	Redox Dark Surface (F6)	
	Depleted Dark Surface (F7)	Carl 4005 FD
	Redox Depressions (F8)	3Indicators of hydrophytic vegetation and
	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	*	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
VDD01 00V		
Vetland Hydrology Indicators:	all that apply)	Secondary Indicators (2 or more required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check	all that apply) Salt Crust (B11)	
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  Surface Water (A1)  High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	<ul><li>Water Marks (B1) (Riverine)</li><li>Sediment Deposits (B2) (Riverine)</li></ul>
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<ul><li>Water Marks (B1) (Riverine)</li><li>Sediment Deposits (B2) (Riverine)</li><li>Drift Deposits (B3) (Riverine)</li></ul>
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Pry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	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 (C
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)	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 (C Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils 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 (C
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils 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 (C Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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)  Field Observations:  Surface Water Present?  Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils 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 (C Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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)  Field Observations:  Surface Water Present?  Ves No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches):	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 (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
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)  Field Observations:  Surface Water Present?  Ves No  Saturation Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soli: Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches):	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 (C Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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)  Field Observations:  Surface Water Present?  Ves No  Saturation Present?  Yes No  Saturation Present?  Yes No  Includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches):  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  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)  Teld Observations:  Surface Water Present? Yes No  Vater Table Present? Yes No  Saturation Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches):  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  V 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)  Field Observations:  Surface Water Present? Yes No  Vater Table Present? Yes No  Saturation Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches):  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  V Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No  Vater Table Present? Yes No  Saturation Present? Yes No  Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches):  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check  V Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No  Vater Table Present? Yes No  Saturation Present? Yes No  Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches):  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETE	RMINATIO	ON DATA FORM	- Arid West Region
Project/Site: PRC 421 DCCOMM	Mignin	gity/County: <u>Go</u>	eta Sampling Date: 8/23/2
Applicant/Owner: State Canby			State: CA Sampling Point: 2
-k A:		Section, Township, R	211 0 2 011
Landform (hillslope, terrace, etc.): Thora ce		Local relief (concave	
Subregion (LRR): LRP C	Lat: '3'		Long: 119,90756 Datum:
	7	1	NWI classification:
Con Map One Hanto. 1 191 1913		1 1/	
Are climatic / hydrologic conditions on the site typical for the		88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes V No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic? (If r	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	No		
	No	Is the Sample	
	No	within a Wetla	
Remarks:		( Conjin	<i>b j</i>
2005 mm			
Cat	fail	Marth	
		· · · · · · · · · · · · · · · · · · ·	
VEGETATION – Use scientific names of plan		Deminant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	
1,			That Are OBL, FACW, or FAC:(A)
2.			Total Number of Dominant
3.			Species Across All Strata: (B)
4.			Percent of Dominant Species
		= Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1			
2			OBL species 100 x1= 100
3			FACW species x 2 =
4			FAC species x 3 =
5		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 3 m. dispuncter		- 10ta 0010	UPL species x 5 =
1. Typha latifolia	60	yes OBC	- Column Totals: (Oo (A) 100 (B)
2. Typha dominguensis	40	YES OUT	Prevalence Index = B/A =
3			- /
4			Hydrophytic Vegetation Indicators:
5,			Dominance Test is >50%  Prevelence Index is ≤3.0⁴
6,			Morphological Adaptations <sup>1</sup> (Provide supporting
7			data in Remarks or on a separate sheet)
8,	-100	_ = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	100	_= Total Cover	
1			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.			be present, unless disturbed or problematic.
		_ = Total Cover	Hydrophytic
W Para Craund in Uash Civatium		Crust	Vegetation Present? Yes No
77 2 31 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or or pione (	A GOL	100
Remarks:			

Profile Description: (Describe to the dep Depth Matrix			
(inches) Color (moist) %	Redox Features  Color (moist) % Type <sup>1</sup> Lo	c <sup>2</sup> Texture Remarks	
	Type Li	Tenans Nemans	***************************************
		350 ASCITO 300 (100 ASCITO)	100
Participant Participant			
Type: C=Concentration, D=Depletion, RM=	=Reduced Matrix, CS=Covered or Coated Sa	nd Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matr	riv
ydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup>	
_ Histosol (A1)	Sandy Redox (S5)		-
Histic Epipedon (A2)	Stripped Matrix (S6)	1 cm Muck (A9) (LRR C)	
Black Histic (A3)	Loamy Mucky Mineral (F1)	2 cm Muck (A10) (LRR B)	
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Red Parent Material (TF2)	
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Other (Explain in Remarks)	
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		
Sandy Gleyed Matrix (S4)	Vernal Pools (F9)	wetland hydrology must be present,	
estrictive Layer (if present):		unless disturbed or problematic.	
Type:			
Type:		Hydric Soil Present? Yes No	
Type: Depth (inches): emarks:		Hydric Soil Present? Yes No	
Type: Depth (inches): emarks:		Hydric Soil Present? Yes No	
Type:		Hydric Soil Present? Yes No	
Type: Depth (inches): emarks:  'DROLOGY  'etland Hydrology Indicators:			
Type: Depth (inches): emarks:  /DROLOGY /etland Hydrology Indicators: rimary indicators (minimum of one required	i; check all that apply)	Secondary Indicators (2 or more requi	
Type: Depth (inches): emarks:  TDROLOGY  Tetland Hydrology Indicators: imary Indicators (minimum of one required Surface Water (A1)	I; check all that apply)Salt Crust (B11)	Secondary Indicators (2 or more requi	ired)
Type: Depth (inches): emarks:  TDROLOGY  Tetland Hydrology Indicators: imary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	l; check all that apply) Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more requi — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine	ired)
Type:	i; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)	Secondary Indicators (2 or more requi	ired)
Type:	I; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more requi — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)	ired)
Type:	I; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more requi Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	ired)
Type:	I; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more requi — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)	ired)
Type:	I; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soil	Secondary Indicators (2 or more required water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)	ired)
Type:	I; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soil	Secondary Indicators (2 or more required with the content of the c	ired)
Type:	d; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Secondary Indicators (2 or more required with the content of the c	ired)
Depth (inches):  Depth (inches):  Depth (inches):  Demarks:  DROLOGY  Detiand Hydrology Indicators:  rimary indicators (minimum of one 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)	I; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soil	Secondary Indicators (2 or more required with the content of the c	ired)
Type:	d; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required with the content of the c	ired)
Type:	I; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required with the content of the c	ired)
Type:	Salt Crust (B11)  — Biotic Crust (B12)  — Aquatic Invertebrates (B13)  — Hydrogen Sulfide Odor (C1)  — Oxidized Rhizospheres along Living  — Presence of Reduced Iron (C4)  — Recent Iron Reduction in Tilled Soil  7)  — Thin Muck Surface (C7)  — Other (Explain in Remarks)	Secondary Indicators (2 or more requi  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Image Shallow Aquitard (D3) FAC-Neutral Test (D5)	ired)
Type:	Salt Crust (B11) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required with the content of the c	ired)
Type:	I; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches):	Secondary Indicators (2 or more required   — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10) — Proposition of the properties of the pro	ired)
Type:	Salt Crust (B11)  — Biotic Crust (B12)  — Aquatic Invertebrates (B13)  — Hydrogen Sulfide Odor (C1)  — Oxidized Rhizospheres along Living  — Presence of Reduced Iron (C4)  — Recent Iron Reduction in Tilled Soil  7)  — Thin Muck Surface (C7)  — Other (Explain in Remarks)	Secondary Indicators (2 or more required   — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10) — Proposition of the properties of the pro	ired)
Type:	I; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches):	Secondary Indicators (2 or more required   — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10) — Proposition of the properties of the pro	ired)
Type:	I; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches):	Secondary Indicators (2 or more required   — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10) — Proposition of the properties of the pro	ired)
Depth (inches):  Depth	I; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches):	Secondary Indicators (2 or more required   — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10) — Proposition of the properties of the pro	ired)

WETLAND DETERMINATION D	OATA FORM – Arid West Region
Project/Site: PRC 421 De commussioner gilyo	ounty: Goleta Sampling Date: 8/23/21
Applicant/Owner: State Cand Commissi	On State: CA Sampling Point: 3
	on, Township, Range: 74N R29W
Landform (hillslope, terrace, etc.): There are Local	relief (concave, convex, none): 10KL Slope (%):
Subregion (LRR): LRP-C Lat: 34.	12506 Long: 119 90973 Datum:
Soil Map Unit Name: Beaches	NWI classification: MZ US N
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes V No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	(Coastal)
Remarks:	
Caisson till 0 421-2	
VEGETATION – Use scientific names of plants.	
	ninant Indicator Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	indiffice of Dollariant Species (A)
3.	Total Number of Dominant Species Across All Strata: (B)
4, = To	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	
1	Total 9/ Cover of Multiply by
3	ORIi.
4.	FACW species 50 x2= 100
5	FAC species 20 x3 = 60
Herb Stratum (Plot size: 3 m. Stameter == To	otal Cover FACU species x 4 =
1. Distibilis spicata Zo 4	PAC UPL species x5= Column Totals: (O) (A) 220 (B)
2. Arthrocnemum subterminale 80 4	Prevalence Index = B/A = Z. 2
3	Hydrophytic Vegetation Indicators:
4	Dominance Test is >50%
6.	Prevalence index is ≤3.0¹
7	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8.	Problematic Hydrophytic Vegetation (Evoluin)
Woody Vine Stratum (Plot size:)	otal Cover
1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.	be present, unless disturbed or problematic.
= To	otal Cover Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	
Remarks:	

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	cribe to the depth ne		Features	or commit a	ie absence d	i indicators.
(inches) Color (mol	st) % C	olor (moist)	% Type <sup>1</sup>	Loc2	Texture	Remarks
		oner (moiot)			TOXIOIG	Kemarks
			K			
·······						
						C
				-		
201						
Type: C=Concentration, D	=Depletion, RM=Redu	ced Matrix CS=	Covered or Coate	d Sand Grain	s <sup>2</sup> l oca	tion: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A	pplicable to all LRRs	unless otherv	vise noted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		_ Sandy Redox				ck (A9) (LRR C)
Histic Epipedon (A2)	***	_ Stripped Mate				ck (A10) (LRR B)
Black Histic (A3)		_ Loamy Muck				Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gleye	25.000 BBC GBC GBC BBC BBC C			ent Material (TF2)
Stratified Layers (A5) (L	.RR C)	_ Depleted Mat	trix (F3)			xplain in Remarks)
1 cm Muck (A9) (LRR D		_ Redox Dark S	Surface (F6)			•
Depleted Below Dark S		_ Depleted Dar	k Surface (F7)			
Thick Dark Surface (A1:	55.0 L	_ Redox Depre				hydrophytic vegetation and
Sandy Mucky Mineral (S	,	_ Vernal Pools	(F9)			drology must be present,
Sandy Gleyed Matrix (S			- Alleria		unless dist	urbed or problematic.
testrictive Layer (if preser	•					
Type:						
Depth (inches):	6.004	,		H	lydric Soil P	resent? YesNo
Depth (inches):				H	lydric Soil P	resent? Yes No
Depth (inches): Remarks: YDROLOGY				H	lydric Soll P	resent? Yes No
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indical	tors:			H		
Depth (inches): Remarks:  YDROLOGY Vetland Hydrology Indicators (minimum	tors: n of one required; chec			F		resent? Yes No
Depth (inches): Remarks:  YDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1)	tors: n of one required; chec	Salt Crust (E	311)	F	Second:	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Depth (inches): Remarks:  YDROLOGY Vetland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2)	tors: n of one required; chec	Salt Crust (E Blotic Crust	311) (B12)	F	Second:	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine)
Depth (inches): Remarks:  YDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	lors: n of one required; chec - -	Salt Crust (E Blotic Crust Aquatic Inve	311) (B12) artebrates (B13)	F	Second:	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Pepth (inches):  Pemarks:  YDROLOGY  Vetland Hydrology Indical trimary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Noni	lors: n of one required; chec - - - riverine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si	311) (B12) Intebrates (B13) Ulfide Odor (C1)		Seconda  Wai  Seconda  Drift	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10)
Pepth (inches):  YDROLOGY  Vetland Hydrology Indical trimary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)	lors: n of one required; chec 	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	811) (B12) intebrates (B13) ulfide Odor (C1) izospheres along L	iving Roots (	Seconda  Wat Seconda Drift Drift Dra C3) Dry	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tnage Patterns (B10) Season Water Table (C2)
Pepth (inches):  Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2) Drift Deposits (B3) (None	tors: n of one required; chec 	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen So Oxidized Rh Presence of	811) (B12) Intebrates (B13) Ulfide Odor (C1) Izospheres along L Reduced Iron (C4)	lving Roots (	Seconda  Wai Seconda Drift Drift Dra C3) C72	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2)
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonum Sediment Deposits (B2)  Drift Deposits (B3) (Nonum Surface Soil Cracks (B6)	tors: n of one required; checonomic checonom	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	811) (B12) Intebrates (B13) Ulfide Odor (C1) Izospheres along L Reduced Iron (C4) Reduction in Tilled	lving Roots (	Seconda  Wai Seconda Drift Drift Dra C3) C72	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2)
Popth (inches):  Popology  Vetland Hydrology Indicated Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Ae	tors: n of one required; check riverine) (Nonriverine) riverine) ) rial imagery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	811) (B12) Intebrates (B13) Intebrates (B13) Interpreted (C1) Izospheres along L Reduced Iron (C4) Reduction in Tilled Interface (C7)	lving Roots (	Seconda Wai Seci Drif Dra C3) Dry Crai Sati	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2)
Popth (inches):  Popth	tors: n of one required; check riverine) (Nonriverine) riverine) ) rial imagery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	811) (B12) Intebrates (B13) Intebrates (B13) Interpreted (C1) Izospheres along L Reduced Iron (C4) Reduction in Tilled Interface (C7)	lving Roots (	Seconda  Wat Seconda Drift Dra C3) Dry Cra Satt Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):  Permarks:  YDROLOGY  Vetland Hydrology Indicate of the primary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Active Water-Stained Leaves (Incided Conservations:	tors: n of one required; checking the control of th	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Izospheres along L Reduced Iron (C4) Reduction in Tilled Interface (C7) In in Remarks)	lving Roots (6 Soils (C6)	Seconda  Wat Seconda Drift Dra C3) Dry Cra Satt Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicate Manary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Active Water-Stained Leaves (lield Observations:  urface Water Present?	tors: n of one required; checking the control of th	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation (C4) Interpretation (C4) Interpretation in Tilled In	iving Roots (6)	Seconda  Wat Seconda Drift Dra C3) Dry Cra Satt Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Active Water-Stained Leaves (lield Observations:	tors: n of one required; checking the control of th	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation (C4) Interpretation (C4) Interpretation in Tilled In	iving Roots (6)	Seconda  Wat Seconda Drift Dra C3) Dry Cra Satt Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):  Remarks:  YDROLOGY  Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Active Water-Stained Leaves (Inches)  Selface Water Present?  Vater Table Present?	tors: n of one required; checking the control of th	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) Intebrates (B13) Intebrates (B13) Idide Odor (C1) Izospheres along L Reduced Iron (C4) Reduction in Tilled Furface (C7) In in Remarks)  es):es):es):	living Roots (6)	Seconda  Wai Sed Drift Dra C3) Dry Cra Satu FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):	tors: n of one required; check riverine) (Nonriverine) priverine) ) rial imagery (B7) B9)  Yes No Yes No Yes No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ritebrates (B13) ulfide Odor (C1) lzospheres along L Reduced Iron (C4) Reduction in Tilled rurface (C7) aln in Remarks) es):	iving Roots (6 Soils (C6)	Seconda Wat Sed Drif Dra Cra Cra Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Active Water-Stained Leaves (Incided Conservations:  Surface Water Present?  Vater Table Present?	tors: n of one required; check riverine) (Nonriverine) priverine) ) rial imagery (B7) B9)  Yes No Yes No Yes No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ritebrates (B13) ulfide Odor (C1) lzospheres along L Reduced Iron (C4) Reduction in Tilled rurface (C7) aln in Remarks) es):	iving Roots (6 Soils (C6)	Seconda Wat Sed Drif Dra Cra Cra Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (None Sediment Deposits (B2)  Drift Deposits (B3) (None Surface Soil Cracks (B6)  Inundation Visible on Active Water-Stained Leaves (Inches Water Present?  Water Table Present?  Faturation Present?	tors: n of one required; check riverine) (Nonriverine) priverine) ) rial imagery (B7) B9)  Yes No Yes No Yes No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ritebrates (B13) ulfide Odor (C1) lzospheres along L Reduced Iron (C4) Reduction in Tilled rurface (C7) aln in Remarks) es):	iving Roots (6 Soils (C6)	Seconda Wat Sed Drif Dra Cra Cra Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inches):	tors: n of one required; check riverine) (Nonriverine) priverine) ) rial imagery (B7) B9)  Yes No Yes No Yes No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ritebrates (B13) ulfide Odor (C1) lzospheres along L Reduced Iron (C4) Reduction in Tilled rurface (C7) aln in Remarks) es):	iving Roots (6 Soils (C6)	Seconda Wat Sed Drif Dra Cra Cra Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C

WETLAND DETE	RMINATI	ON DATA FORM	- Arid West Region
Project/Site: PRC 421 Decomm	Signal	Rity/County: Gol	eta Sampling Date: 8/23/2
		bsion	State: CA Sampling Point:
Investigator(s): In gamelly			
Landform (hillslope, terrace, etc.): Terra ce			
		4.42538	
Soil Map Unit Name: Beaches	2032		NWI classification:
Are climatic / hydrologic conditions on the site typical for thi	s time of ye	ar? Yes No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologyr	naturally pro	blematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampling point le	ocations, transects, important features, etc
Hydrophytic Vegetation Present? YesN	lo	Is the Sampled	
	lo	within a Wetlar	- 5/
110000117111111111111111111111111111111	lo	Coasta	
Remarks:	ſ.	0.01	1 - 1 - 2
Access noad	+6	runul at	421-2 pier
VEGETATION – Use scientific names of plan	ıts.		
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1.	San Soundario		Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2.			Total Number of Dominant 4
3			Species Across All Strata:(B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)		= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1.			Prevalence Index worksheet:
2.			Total % Cover of:Multiply by:
3			OBL species 5 x1= 5 FACW species 50 x2= 100
4			FACW species 2 x2 = 15  FAC species 2 x3 = 15
5		= Total Cover	FACU species x4 =
Herb Stratum (Plot size: 3 M. d. 9)	-		UPL species 3 x 5 = 15
1. Polypogon monspeliensis	50	Yes Fren	Column Totals: 63 (A) 135 (B)
2. Atriplet lentformis feedla	g/ / Z	No OBI	Prevalence Index = B/A =
3. Cotula coron optolia		Yes OBI	Hydrophytic Vegetation Indicators:
5. Melitotas albus	3	Yes UPL	pominance Test is >50%
6. Distribus spicata	- 3	Yes FAC	Prevalence Index is ≤3.0¹
7.			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Manada Vina Charles (Diatains)	63	= Total Cover	repletifate riverophytic vegetation (Expiain)
Woody Vine Stratum (Plot size:) 1			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.	• • • • • • • • • • • • • • • • • • • •		be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic /
% Bare Ground in Herb Stratum % Cove	r of Blotic C	rust	Vegetation Present? Yes No
Remarks:			

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Profile Description: (Describe to the depth needed to document the	indicator or confirm the absence of indicators.)
Depth Matrix Redox Featur	
(inches) Color (moist) % Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup> Texture Remarks
	d brown 1 to annual 1 to annua
AMBIRARIA DE LA CONTRACTOR DE LA CONTRAC	MANAGERIA A.
	5.00 SP 6 60000000000000000000000000000000
The state of the s	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covere	ed or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all LRRs, unless otherwise no	
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)	
Black Histic (A3) Loamy Mucky Miner	al (F1) Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matri	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	21
1 cm Muck (A9) (LRR D) Redox Dark Surface	
Depleted Below Dark Surface (A11) Depleted Dark Surfa	
Thick Dark Surface (A12) Redox Depressions	
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	unless disturbed or problematic,
and the second s	
Type:	
Depth (inches):Remarks:	Hydric Soil Present? Yes No
*	
YDROLOGY	
LEAN TO THE RESERVE OF THE RESERVE O	
Vetland Hydrology Indicators: rimafy Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Salt Crust (B11)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Vetland Hydrology Indicators:  Irimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Algh Water Table (A2)  Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Vetland Hydrology Indicators: Inmary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine)
Vetland Hydrology Indicators:  Inmary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Saturation Hydrogen Sulfide C	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine)
Vetland Hydrology Indicators:  Inmary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Saturation Hydrogen Sulfide C	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2)
Vetland Hydrology Indicators:  Inimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reductions (Rate apply)  Presence of Reductions (Rate apply)  National Apply  Saturation (A3)  Water Marks (B1) (Nonriverine)  Oxidized Rhizosphologist (B3) (Nonriverine)  Presence of Reductions (Rate apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8)
Vetland Hydrology Indicators:  Inimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reductions (Rate apply)  Presence of Reductions (Rate apply)  National Apply  Saturation (A3)  Water Marks (B1) (Nonriverine)  Oxidized Rhizosphologist (B3) (Nonriverine)  Presence of Reductions (Rate apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Vetland Hydrology Indicators:  Irimafy Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) ition in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C6) (C7) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Inmariy Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Weter Marks (B1) (Nonriverine)  Surface Soil Cracks (B9)  Other (Explain in Red	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) ition in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C6) (C7) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Inmary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water Marks (B1) (Nonriverine)  Presence of Reduction Reduction (B1)  Water Stained Leaves (B9)  Other (Explain in Reduction (B2)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) ition in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C6) (C7) Shallow Aquitard (D3)
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)  Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) ition in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C (C7) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Inmary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Salt Crust (B11)  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)  Water Present?  Ves  No  Depth (Inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) es (B13) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) eres along Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) ition in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C6) (C7) Shallow Aquitard (D3)

WEILAND DETERMINATION DATA FORM	And West Region
Project/Site: PRC 421 De Commission of Etylcounty: Gold	
Applicant/Owner State Canbs Commission	State: Sampling Point:
Investigator(s):	ge: 74N R29W
Landform (hillslope, terrace, etc.): Thrace Local relief (concave, or	onvex, none): None (%):
Subregion (LRR): 188-C Lat: 34, 425-68	Long: 119, 90 79 + 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 "N	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No Is the Sampled	Area
Hydric Soil Present? Yes No within a Wetland	. 1/
Wetland Hydrology Present? Yes No Coath	
Remarks: $Anea = n65/k5'$	bluff toe
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum         (Plot size:)         % Cover Species? Status           1	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3	Total Number of Dominant Species Across All Strata: (B)
4 = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
Sapling/Shrub Stratum (Plot size: 5 m. diametro	
I. Protection States	Prevalence Index worksheet:  Total % Cover of: Multiply by:
2	Total % Cover of: Multiply by:  OBL species x 1 =
3	FACW species $45$ $\times 2 = 90$
5.	FAC species 6 x3= 17
5 - Tatal Course	FACU species x 4 =
Herb Stratum (Plot size: 3 m diameter 40 les tages	UPL species Z x5 = 10
1. Tog po to	Column Totals: 53 (A) 11 (B)
2. Cost la contra bacting 7	Prevalence Index = B/A =
4. Helmir tho-their censolder 1 4er The	Hydrophytic Vegetation Indicators:
4. Itterrary to the contract	Dominance Test is >50%
6.	Prevalence Index is ≤3.01
7	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Total Cover	Problematic rydrophytic vegetation (Explain)
Woody Vine Stratum (Plot size:)   1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2	be present, unless disturbed or problematic.
= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Blotic Crust	Vegetation Present?  Yes No
Remarks:	
I .	

Depth	Matrix			x Features			
(inches) Color	(molst)	% <u>(</u>	Color (moist)		be <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
Type: C=Concentrating of the strictive Layer (if party).  Type: C=Concentrating of the strictive Layer (if party).  Type: C=Concentrating of the strictive Layer (if party).	(A4) (A4) (A5) (LRR C) (RR D) ark Surface (e (A12) eral (S1) trix (S4) vresent):	ole to all LRR	s, unless other Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	i=Covered or Covise noted.)  ix (S5)  trix (S6)  ky Mineral (F1)  ed Matrix (F2)  atrix (F3)  Surface (F6)  ix Surface (F7)  essions (F8)	pated Sand (	Indicators  1 cm M 2 cm M Reduc Red P Other Indicators wetland	cation: PL=Pore Lining, M=Matrix, for Problematic Hydric Soils <sup>3</sup> :  Auck (A9) (LRR C)  Auck (A10) (LRR B)  ed Vertic (F18)  arent Material (TF2)  (Explain in Remarks)  of hydrophytic vegetation and hydrology must be present, isturbed or problematic.
Depth (inches):						Hydric Soil	Present? Yes No
YDROLOGY Vetland Hydrology Ir	ndicators:		***************************************				
		required; ch	eck all that apply	)		Secor	ndary Indicators (2 or more required)
Vetland Hydrology Ir Primary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea	nimum of one ) (A2) (Nonriverine s (B2) (Nonri (Nonriverin ts (B6) on Aerial Ima	e) verine)	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen S Oxidized R	B11) t (B12) ertebrates (B13 Sulfide Odor (C hizospheres alo of Reduced Iron n Reduction in 1 Surface (C7)	f) ong Living Ro (C4) Tilled Soils (C	W S D D D Cots (C3) D C C6) S	ndary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3) AC-Neutral Test (D5)
Vetland Hydrology Ir Primary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea Field Observations: Surface Water Present Vater Table Present?	(Nonriverine s (B2) (Nonriverine s (B2) (Nonriverine s (B6) on Aerial Ima aves (B9)	e) verine) e) agery (B7) No	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror	B11) t (B12) ertebrates (B13 Sulfide Odor (C' hizospheres ald f Reduced Iron n Reduction in T Surface (C7) lain in Remarks hes): hes):	t) nng Living Ro (C4) illed Solls (C	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3)
Vetland Hydrology Ir Primary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea	(Nonriverine s (B2) (Nonriverine s (B2) (Nonriverine s (B6) on Aerial Ima aves (B9)  ? Yes Yes	e) verine) e) agery (B7)	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen \$ Oxidized R Presence c Recent Iror Thin Muck Other (Exp	B11) t (B12) ertebrates (B13 Sulfide Odor (C' hizospheres ald f Reduced Iron n Reduction in 1 Surface (C7) lain in Remarks hes): hes):	t) ong Living Ro (C4) filled Soils (C	W S D D D C C C S F S F tland Hydrology	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3) AC-Neutral Test (D5)
Vetland Hydrology Ir Primary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea Surface Water Present Vater Table Present? Staturation Present? Includes capillary fring	(Nonriverine s (B2) (Nonriverine s (B2) (Nonriverine s (B6) on Aerial Ima aves (B9)  ? Yes Yes	e) verine) e) agery (B7)	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen \$ Oxidized R Presence c Recent Iror Thin Muck Other (Exp	B11) t (B12) ertebrates (B13 Sulfide Odor (C' hizospheres ald f Reduced Iron n Reduction in 1 Surface (C7) lain in Remarks hes): hes):	t) ong Living Ro (C4) filled Soils (C	W S D D D C C C S F S F tland Hydrology	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3) AC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region Decommissionil-Alty/County: Goleta R29W Ingamelle Section, Township, Range: Investigator(s): Turace Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): 34. 12583 Subregion (LRR): \_ Beaches NWI classification: Soil Map Unit Name: (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Coastal Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1.\_ Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Frankenda Julina Total % Cover of: OBL species 3. FACW species FAC species 40 = Total Cover FACU species Herb Stratum (Plot size: \_\_\_\_ x 5 = UPL species Column Totals: 2. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test Is >50% Prevalence Index is ≤3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) = 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? % Bare Ground in Herb Stratum \_\_\_\_ % Cover of Biotic Crust \_ Yes Remarks:

Depth Matrix		ded to document to Redox Feat				
(inches) Color (moist)	% Col		Type <sup>1</sup>	_Loc2	Texture	Remarks
					The state of the s	
-		The state of the s				
		a decidado			en nerven i la	
ype: C=Concentration, D=Deple				ed Sand Grain	is. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.
ydric Soll Indicators: (Applicat	ble to all LRRs,					r Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)	Monte	Sandy Redox (S5)				ck (A9) (LRR C)
_ Histic Epipedon (A2) _ Black Histic (A3)		Stripped Matrix (S	***			ck (A10) (LRR B)
Hydrogen Sulfide (A4)		Loamy Mucky Min Loamy Gleyed Ma				Vertic (F18) ent Material (TF2)
Stratified Layers (A5) (LRR C)	-	Depleted Matrix (F			40.71	cplain in Remarks)
_ 1 cm Muck (A9) (LRR D)	-	Redox Dark Surface			0.101 (2)	,
_ Depleted Below Dark Surface	(A11)	Depleted Dark Sur	31. 14 120 1200			
_ Thick Dark Surface (A12)		Redox Depression	s (F8)		3Indicators of	hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)		Vernal Pools (F9)			wetland hy	drology must be present,
_ Sandy Gleyed Matrix (S4)					unless dist	urbed or problematic,
estrictive Layer (if present):						
Type:						
Depth (inches):					Hydric Soil Pr	resent? Yes No
Depth (inches):emarks:					Hydric Soil Pr	resent? Yes No
Depth (inches):emarks:  /DROLOGY					Hydric Soil Pr	resent? Yes No
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators:		( all that apply)				
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one	e required; check				Seconda	ry Indicators (2 or more required)
Depth (inches): remarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one _ Surface Water (A1)	e required; check	_ Salt Crust (B11)			Seconda Wat	ury Indicators (2 or more required) er Marks (B1) (Riverine)
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	e required; check	Salt Crust (B11) Biotic Crust (B12			Seconda Wat Sed	iry Indicators (2 or more required) er Marks (B1) (Riverine) lment Deposits (B2) (Riverine)
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	e required; check	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr	ates (B13)		Seconda Wat Sed Drift	ery Indicators (2 or more required) er Marks (B1) (Riverine) Iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivering temarks (B1) (Nonrivering temarks)	e required; check	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide	ates (B13) Odor (C1)		Seconda Wat Sed Drift Drai	iny Indicators (2 or more required) er Marks (B1) (Riverine) liment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
Depth (inches):emarks:  /DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivering Sediment Deposits (B2) (Nonriversity Sediment Deposits (B2)	e required; check	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	ates (B13) Odor (C1) heres along l	Living Roots	Seconda  Wat Sed Drift Drail (C3) Dry-	ery Indicators (2 or more required) er Marks (B1) (Riverine) lment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Depth (inches):	e required; check	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi	ates (B13) Odor (C1) heres along l uced Iron (C4	Living Roots	Seconda  Wate Sed Drift Drail (C3) C7a)	ery Indicators (2 or more required) er Marks (B1) (Riverine) liment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) r/fish Burrows (C8)
Depth (inches):emarks:  /DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivering Drift Deposits (B2) (Nonrivering Surface Soil Cracks (B6)	e required; check	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi	ates (B13) Odor (C1) heres along luced Iron (C4 action in Tilled	Living Roots	<u>Seconda</u> Wat Sed Drift Dral (C3) Dry- Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C
Depth (inches):emarks:  //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one	e required; check e) iverine) ne) agery (B7)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surface	ates (B13) Odor (C1) wheres along laced Iron (C4 action in Tilled	Living Roots	Seconda  Wat Sed Drift Drai (C3) C3) Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (Goldon Aguitard (D3)
Depth (inches):  remarks:  //DROLOGY  //etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Nonr Drift Deposits (B3) (Nonriverin Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	e required; check e) iverine) ne) agery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi	ates (B13) Odor (C1) wheres along laced Iron (C4 action in Tilled	Living Roots	Seconda  Wat Sed Drift Drai (C3) C3) Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one	e required; check e) iverine) ne) agery (B7)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in	ates (B13) Odor (C1) wheres along I used Iron (C4 action in Tilled te (C7) Remarks)	Living Roots	Seconda  Wat Sed Drift Drai (C3) C3) Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (Goldon Aguitard (D3)
Depth (inches):  Temarks:  TOROLOGY  Vetland Hydrology Indicators:  Inimary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverin  Sediment Deposits (B2) (Nonriverin  Drift Deposits (B3) (Nonriverin  Surface Soil Cracks (B6)  Inundation Visible on Aerial Im  Water-Stained Leaves (B9)  Teled Observations:  urface Water Present?	e required; check e) iverine) agery (B7)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in	ates (B13) Odor (C1) wheres along I used Iron (C4 action in Tilled e (C7) Remarks)	Living Roots i) d Soils (C6)	Seconda  Wat Sed Drift Drai (C3) C3) Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (Goldon Aguitard (D3)
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin: Sediment Deposits (B2) (Nonriverin: Drift Deposits (B3) (Nonriverin: Surface Soil Cracks (B6) Inundation Visible on Aerial Im: Water-Stained Leaves (B9) Ield Observations: Surface Water Present?  Ves	e) agery (B7) s No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in  Depth (Inches):	ates (B13) Odor (C1) wheres along I used fron (C4 action in Tilled the (C7) Remarks)	Living Roots i) d Soils (C6)	Seconda	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) eration Visible on Aerial Imagery (Glow Aquitard (D3) -Neutral Test (D5)
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverin  Sediment Deposits (B2) (Nonriverin  Drift Deposits (B3) (Nonriverin  Surface Soil Cracks (B6)  Inundation Visible on Aerial Im  Water-Stained Leaves (B9)  ield Observations:  urface Water Present?  Yes  Vater Table Present?  Yes  vaturation Present?  Yes  vaturation Present?  Yes  vaturation Present?  Yes	e required; check e) iverine) agery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizos: Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in  Depth (Inches): Depth (Inches):	ates (B13) Odor (C1) heres along I uced fron (C4 action in Tilled te (C7) Remarks)	Living Roots i) d Soils (C6)	Seconda  Wat Sed Drift Drail (C3) Dry- Satu Shal FAC	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (Goldon Aguitard (D3)
Depth (inches):  Jemarks:  Jemarks:	e required; check e) iverine) agery (B7)  agery No No No No No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizos: Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in  Depth (Inches): Depth (Inches):	ates (B13) Odor (C1) heres along I uced fron (C4 action in Tilled te (C7) Remarks)	Living Roots i) d Soils (C6)	Seconda  Wat Sed Drift Drail (C3) Dry- Satu Shal FAC	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) eration Visible on Aerial Imagery (Glow Aquitard (D3) -Neutral Test (D5)
Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin: Sediment Deposits (B2) (Nonriverin: Drift Deposits (B3) (Nonriverin: Surface Soil Cracks (B6) Inundation Visible on Aerial Im: Water-Stained Leaves (B9) Ield Observations: Surface Water Present?  Ves	e required; check e) iverine) agery (B7)  agery No No No No No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizos: Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in  Depth (Inches): Depth (Inches):	ates (B13) Odor (C1) heres along I uced fron (C4 action in Tilled te (C7) Remarks)	Living Roots i) d Soils (C6)	Seconda  Wat Sed Drift Drail (C3) Dry- Satu Shal FAC	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) eration Visible on Aerial Imagery (Glow Aquitard (D3) -Neutral Test (D5)

US Army Corps of Engineers

roject/Site: PRC 42 DC COWA MUS (ONL) Gitty/Country. Go Let 2 Sampling Date: \$\frac{1}{2}\frac{2}{2}\frac{1}{2
pplicant/Owner:
Section, Township, Range: TAN R2 TW
Local relief (concave, convex, none):
Lat: 34, 7575 Long: 17, 90573 Datum:    Dotton:   Dotton
NWI classification: re climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No naturally problematic?  RUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophylic Vegetation Present? Yes No within a Wetland? Yes No
re climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  re Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No If needed, explain any answers in Remarks.)  IUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Within a Wetland Soil Present? Yes No Within a Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wolf of Dominant Indicator Scientific names of plants.  Tree Stratum (Plot size: Absolute Sapillon/Shrub Stratum (P
re Vegetation, Soil, or Hydrology significantly disturbed?
re Vegetation, Soll, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  ### Summark OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  #### Hydrophylic Vegetation Present?
Sappling/Shrub Stratum (Plot size: 5 m show   Sappling/Shrub Strat
Hydrophylic Vegetation Present? Hydrophylic Vegetation Present? Wetland Hydrology Present? Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wolfand Hydrology Present? Yes No No Within a Wetland? Yes No No No Within a Wetland? Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes No within a Wetland?  Yes No Dominant Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes No Within a Wetland?  Yes No No No Within a Wetland?  Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Remarks:    Percent of Dominant Species That Are OBL, FACW, or FAC: 1.   FACW Species Across All Stratum (Plot size: 5 m g/a
Remarks:    Coarted   Coarted   Coarted   Coarted   Coarted
Sapiling/Shrub Stratum (Plot size: 5 m dia   20 Ver Facus   1.   Franking   Salina   3.   2.   4.   5.   5.   6.   6.   6.   6.   6.   6
Absolute   Dominant Indicator   Number of Dominant Species   Number of Dominant Species   That Are OBL, FACW, or FAC:   (A)
Absolute % Cover Species? Status Indicator Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A)  2
Absolute % Cover Species? Status Indicator Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A)  2
Tree Stratum (Plot size:)
That Are OBL, FACW, or FAC:  (A)  Total Number of Dominant Species Across All Strata:  (B)  Sapiling/Shrub Stratum (Plot size: 5 m d/a = Total Cover  Sapiling/Shrub Stratum (Plot size: 5 m d/a = Total Cover  1. Frankfinia Salma Zo VC FACW  Percent of Dominant Species That Are OBL, FACW, or FAC: LOO / (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species x1 = FACW species Zo x2 = 40  FAC species PO x3 = Z40  FAC species PO x3 = Z40  FACU species x4 = UPL species x4 = UPL species x5 = Column Totals: LOO (A) Z50 (B)
3. Species Across All Strata: (B)  Sapiling/Shrub Stratum (Plot size: 5 m d/a = Total Cover
Species Across All Strata:
Sapiling/Shrub Stratum (Plot size: 5 m g/a
Sapiling/Shrub Stratum
1. Frankenia Salma 20 (0 ptc) 2. Atriplex lengthround 80 Mer prevalence index worksneet:  Total % Cover of: Multiply by:  OBL species
3.
4.
5. FAC species FO x3 = Z40    LOO
Herb Stratum (Plot size:)
1 Column Totals: (B) (B)
2
3. Providence index = DIA =
4. Hydrophytic Vegetation Indicators:  Dominance Test is >50%
9 Proviolance Index to <2.01
U. L.
data in Remarks or on a separate sheet)
a Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)
1. Indicators of hydric soil and wetland, hydrology must be present, unless disturbed or problematic.
2
## Total Cover   Hydrophytic   Vegetation   Present?   Yes   No   No   No   No   No   No   No   N
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No
remarks.

US Army Corps of Engineers

Arid West - Version 2.0

Depth Matrix	Redox F	eatures		
(inches) Color (moist) 9	% Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
Type: C=Concentration, D=Depletion	ı, RM=Reduced Matrix, CS=C	Covered or Coated		Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable t			CHICAGO CONTRACTOR CON	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)	Sandy Redox ( Stripped Matrix			n Muck (A9) (LRR C) n Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky I			fuced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed			Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix		Oth	er (Explain in Remarks)
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A1	Redox Dark Su 1) Depleted Dark			
Thick Dark Surface (A12)	Redox Depress		3Indicate	ors of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F			nd hydrology must be present,
Sandy Gleyed Matrix (S4)	**************************************	-,		s disturbed or problematic.
Restrictive Layer (if present):			TOTAL CONTINUE	
Туре:				
Depth (inches):			Hydric S	oll Present? Yes No
Depth (inches):			Hydric S	oil Present? Yes No
			Hydric S	oil Present? Yes No
YDROLOGY			Hydric S	oil Present? Yes No
YDROLOGY Vetland Hydrology Indicators:				
Pinnary Indicators:  Primary Indicators (minimum of one rec			Sec	condary Indicators (2 or more required)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one rec Surface Water (A1)	Salt Crust (B1		Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one rec Surface Water (A1) High Water Table (A2)	Salt Crust (B1 Blotic Crust (B	312)	Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recompleted and the control of the co	Salt Crust (B1 Biotic Crust (B Aquatic Invert	312) ebrates (B13)	Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomply and the control of the contr	Salt Crust (B1 Biotic Crust (E Aquatic Invert Hydrogen Sult	B12) ebrates (B13) fide Odor (C1)	Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recompleted of the second	Salt Crust (B1 Biotic Crust (E Aquatic Invert Hydrogen Sult ine) Salt Crust (B1 Hydrogen Sult	B12) ebrates (B13) fide Odor (C1) cospheres along Li	Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recompleted of the second	Salt Crust (B1 Biotic Crust (E Aquatic Invert Hydrogen Sulf Oxidized Rhiz Presence of R	B12) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4)	Sec	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomment of the primary Indicators (minimum of one recomment of the primary Indicators (minimum of one recomment of the primary Indicators (Marian	Salt Crust (B1 Blotic Crust (B Aquatic Invert Hydrogen Sult rine) Oxidized Rhiz Presence of R Recent Iron R	312) ebrates (B13) fide Odor (C1) ospheres along Li teduced fron (C4) eduction in Tilled	Ving Roots (C3)	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomment of the primary Indicators (minimum of one recomment	Salt Crust (B1 Biotic Crust (E Aquatic Invert Hydrogen Sulf rine) Oxidized Rhiz Presence of R Recent Iron R ry (B7) Thin Muck Sul	ebrates (B13) fide Odor (C1) ospheres along Li teduced fron (C4) eduction in Tilled rface (C7)	Ving Roots (C3)	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Shallow Aquitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomment of the primary Indicators (minimum of one recomment of the primary Indicators (minimum of one recomment of the primary Indicators (Marine of the primary Indicat	Salt Crust (B1 Blotic Crust (B Aquatic Invert Hydrogen Sult rine) Oxidized Rhiz Presence of R Recent Iron R	ebrates (B13) fide Odor (C1) ospheres along Li teduced fron (C4) eduction in Tilled rface (C7)	Ving Roots (C3)	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomment of the primary Indicators (Mariana Indicators)  Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Teld Observations:	Salt Crust (B1 Biotic Crust (E1 Aquatic Invert Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Ty (B7) Other (Explain	ebrates (B13) fide Odor (C1) cospheres along Li ceduced Iron (C4) eduction in Tilled rface (C7) in Remarks)	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomment of the primary Indicators (Mariana Indicators	Salt Crust (B1 Biotic Crust (E1 Aquatic Invert Hydrogen Sulf ine) Oxidized Rhiz Presence of R Recent Iron R ry (B7) Thin Muck Sur Other (Explain	ebrates (B13) fide Odor (C1) ospheres along Li deduced Iron (C4) eduction in Tilled rface (C7) n in Remarks)	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one reconstruction) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Ield Observations: Furface Water Present? Ves	Salt Crust (B1  Biotic Crust (E1  Aquatic Inverted Hydrogen Sulf Crust (B1)  Oxidized Rhiz Presence of Recent Iron Recent Iron Recent Iron Recent (Explain No Depth (Inches	ebrates (B13) fide Odor (C1) cospheres along Li ceduced Iron (C4) eduction in Tilled rface (C7) n in Remarks) s):	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Shallow Aquitard (D3) FAC-Neutral Test (D5)
VDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one recomposition of the process of the p	Salt Crust (B1 Biotic Crust (E1 Aquatic Invert Hydrogen Sulf ine) Oxidized Rhiz Presence of R Recent Iron R ry (B7) Thin Muck Sur Other (Explain	ebrates (B13) fide Odor (C1) cospheres along Li ceduced Iron (C4) eduction in Tilled rface (C7) n in Remarks) s):	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one reconstruction) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Ield Observations: Furface Water Present? Ves	Salt Crust (B1 Blotic Crust (B1 Aquatic Invert Hydrogen Sulf rine) Oxidized Rhiz Presence of R Recent Iron R ry (B7) Thin Muck Sur Other (Explain No Depth (Inches	ebrates (B13) filde Odor (C1) cospheres along Li teduced fron (C4) eduction in Tilled rface (C7) in in Remarks) s): s):	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Shallow Aquitard (D3) FAC-Neutral Test (D5)
VDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one reconstruction) 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 Imager Water-Stained Leaves (B9) Ield Observations: Furface Water Present? Ves Vater Table Present? Ves Laturation Present	Salt Crust (B1 Blotic Crust (B1 Aquatic Invert Hydrogen Sulf rine) Oxidized Rhiz Presence of R Recent Iron R ry (B7) Thin Muck Sur Other (Explain No Depth (Inches	ebrates (B13) filde Odor (C1) cospheres along Li teduced fron (C4) eduction in Tilled rface (C7) in in Remarks) s): s):	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Shallow Aquitard (D3) FAC-Neutral Test (D5)
VDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one reconstruction) 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 Imager Water-Stained Leaves (B9) Ield Observations: Furface Water Present? Ves Vater Table Present? Ves Laturation Present	Salt Crust (B1 Blotic Crust (B1 Aquatic Invert Hydrogen Sulf rine) Oxidized Rhiz Presence of R Recent Iron R ry (B7) Thin Muck Sur Other (Explain No Depth (Inches	ebrates (B13) filde Odor (C1) cospheres along Li teduced fron (C4) eduction in Tilled rface (C7) in in Remarks) s): s):	Ving Roots (C3)	Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)

WETLAND DETERMINATION DATA FORM - Arid West Region De commissionil sity/county: Goleta Sampling Date: Sampling Point: Applicant/Owner: Lugamello Section, Township, Range: \_\_\_ Terrace Slope (%): Landform (hillslope, terrace, etc.): \_ Local relief (eoncave, convex, none): 2-Datum: Subregion (LRR): \_ Soil Map Unit Name: \_\_\_\_ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes\_ Are Vegetation \_\_\_\_\_, Soit \_\_\_\_\_, 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes (Coaltal Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1.\_ Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 5 m. d. 69 Prevalence Index worksheet: 1. Frankenia Actorplex Total % Cover of: **OBL** species FACW species FAC species (00 = Total Cover FACU species Herb Stratum (Plot size: UPL species Column Totals: 100 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Woody Vine Stratum (Plot size: \_\_\_\_ <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

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rofile Description: (Desc	else.	Redox Fe	noturos.		
Depth Mat Inches) Color (mois			% Type	Loc <sup>2</sup> Tex	dure Remarks
		property of the second second			
					The second secon
		State of the state			
					2
Type: C=Concentration, D= lydric Soil Indicators: (Ap					<sup>2</sup> Location: PL≔Pore Lining, M≔Matrix, icators for Problematic Hydric Soils <sup>3</sup> :
	phicable to all Li				
_ Histosol (A1) _ Histic Epipedon (A2)		Sandy Redox (S Stripped Matrix		Ministra	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Black Histic (A3)	9	Loamy Mucky N		(2 <del>-1)</del>	Reduced Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gleyed N		-	Red Parent Material (TF2)
Stratified Layers (A5) (L	RR C)	Depleted Matrix		_	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D		Redox Dark Sur		_	
Depleted Below Dark Su	rface (A11)	Depleted Dark S	Surface (F7)		
_ Thick Dark Surface (A12		Redox Depressi	The state of the s		licators of hydrophytic vegetation and
Sandy Mucky Mineral (S	1151	Vernal Pools (F	9)		vetland hydrology must be present,
	4)	**		u	nless disturbed or problematic.
_ Sandy Gleyed Matrix (S-	· · · · · · · · · · · · · · · · · · ·				
estrictive Layer (if presen	it):				
estrictive Layer (if presen			1113		
estrictive Layer (if presen				Hydi	ric Soil Present? Yes No
estrictive Layer (if present Type:  Type:  Depth (inches):  emarks:   /DROLOGY  /etland Hydrology Indicate rimary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonr  Sediment Deposits (B2)	ors: of one required; iverine) (Nonriverine)	check all that apply)  Salt Crust (B1: Biotic Crust (B Aquatic Inverte Hydrogen Sulfi	12) ebrates (B13) ide Odor (C1) ospheres along Li		Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)  — Drift Deposits (B3) (Riverine)  — Drainage Patterns (B10)  — Dry-Season Water Table (C2)
estrictive Layer (if present Type: Type: Depth (inches): emarks:  /DROLOGY //etland Hydrology Indicaterimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Non	ors: of one required; iverine) (Nonriverine) riverine)	check all that apply) Salt Crust (B1) Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	12) ebrates (B13) ide Odor (C1) ospheres along Li educed Iron (C4)	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
estrictive Layer (if present Type:	ors: of one required; iverine) (Nonriverine) riverine)	check all that apply) Salt Crust (B1' Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	12) abrates (B13) ide Odor (C1) aspheres along Li educed Iron (C4) aduction in Tilled 3	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C
estrictive Layer (if present Type:	ors: of one required; iverine) (Nonriverine) riverine)	check all that apply) Salt Crust (B1) Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro	12) abrates (B13) ide Odor (C1) aspheres along Li educed Iron (C4) aduction in Tilled S face (C7)	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Cas)
estrictive Layer (if present Type:	ors: of one required; iverine) (Nonriverine) riverine)	check all that apply) Salt Crust (B1' Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	12) abrates (B13) ide Odor (C1) aspheres along Li educed Iron (C4) aduction in Tilled S face (C7)	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C
estrictive Layer (if present Type: Type: Depth (inches): emarks:  //DROLOGY //etland Hydrology Indicaterimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soll Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (if ield Observations:	ors: of one required; iverine) (Nonriverine) riverine) rial Imagery (B7)	check all that apply) Salt Crust (B1) Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Sur	12) ebrates (B13) ide Odor (C1) espheres along Li educed Iron (C4) eduction in Tilled : face (C7) in Remarks)	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Cas)
estrictive Layer (if present Type:  Type:  Depth (inches):  emarks:   /DROLOGY  /etland Hydrology Indicate rimary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonr Sediment Deposits (B2)  Drift Deposits (B3) (Non Surface Soll Cracks (B6)  Inundation Visible on Ae  Water-Stained Leaves (I ield Observations: urface Water Present?	ors: of one required; iverine) (Nonriverine) riverine) rial Imagery (B7) 39)	check all that apply) Salt Crust (B1) Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Sur Other (Explain	12) ebrates (B13) ide Odor (C1) espheres along Li educed Iron (C4) eduction in Tilled : face (C7) in Remarks)	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Cas)
estrictive Layer (if present Type:	ors: of one required; iverine) (Nonriverine) riverine) rial Imagery (B7) 39) Yes No	check all that apply) Salt Crust (B1) Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Sur	12) ebrates (B13) ide Odor (C1) espheres along Li educed Iron (C4) eduction in Tilled : face (C7) in Remarks)	ving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Cas)
estrictive Layer (if present Type:  Type:  Depth (inches):  emarks:   //DROLOGY  //etland Hydrology Indicate rimary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonr Sediment Deposits (B2)  Drift Deposits (B3) (Non Surface Soil Cracks (B6)  Inundation Visible on Ae  Water-Stained Leaves (iteld Observations:  urface Water Present?	ors: of one required; iverine) (Nonriverine) riverine) rial Imagery (B7) 39)  Yes No Yes No	check all that apply) Salt Crust (B1* Biotic Crust (B * Aquatic Inverte   Hydrogen Sulfi   Oxidized Rhizc   Presence of Recent Iron Re   Thin Muck Sur   Other (Explain   Depth (inches   Depth (inches   Depth (inches	12) abrates (B13) ide Odor (C1) aspheres along Li educed Iron (C4) aduction in Tilled s face (C7) in Remarks)	ving Roots (C3) Soils (C6) Wetland Hy	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Caster of the Control
estrictive Layer (if presentype: Type: Depth (inches): emarks:  PDROLOGY  Jetland Hydrology Indicate inmary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soll Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (Itel observations: urface Water Present? Jeter Table Present? aturation Present?	ors: of one required; iverine) (Nonriverine) riverine) rial Imagery (B7) 39)  Yes No Yes No	check all that apply) Salt Crust (B1* Biotic Crust (B * Aquatic Inverte   Hydrogen Sulfi   Oxidized Rhizc   Presence of Recent Iron Re   Thin Muck Sur   Other (Explain   Depth (inches   Depth (inches   Depth (inches	12) abrates (B13) ide Odor (C1) aspheres along Li educed Iron (C4) aduction in Tilled s face (C7) in Remarks)	ving Roots (C3) Soils (C6) Wetland Hy	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Caster of the Control

WETLAND DETERMINATION DATA FORM - Arid West Region PRC 421 Decommission Goleta Sampling Point: Ingamelle Section, Township, Range: Investigator(s): Terrace Landform (hillslope, terrace, etc.): \_\_\_\_ Local relief (concave, convex, none): Subregion (LRR): \_ L /2 Soil Map Unit Name: Beacher NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? 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? Is the Sampled Area Hydric Soil Present? Yes within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: 1. Total % Cover of: OBL species FACW species FAC species FACU species = Total Cover Herb Stratum (Plot size: 3 m. UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 4. Dominance Test is >50% 5. Prevalence Index is ≤3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 6 U = 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 = Total Cover Vegetation Present? % Bare Ground in Herb Stratum \_\_\_\_ % Cover of Biotic Crust Remarks:

	Redox Features	
Depth Matrix (inches) Color (moist) %		Loc <sup>2</sup> Texture Remarks
Type: C=Concentration, D≕Depletion, RN	=Reduced Matrix. CS=Covered or Coate	d Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18)
Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)	Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)	Red Parent Material (TF2) Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (If present):  Type:  Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (If present): Type: Depth (Inches): Remarks: YDROLOGY		
Restrictive Layer (if present):  Type:  Depth (inches):  Remarks:  YDROLOGY  Wetland Hydrology Indicators:	d; check all that apply)	
Restrictive Layer (if present):  Type:  Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Hydric Soil Present? Yes No  Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Restrictive Layer (if present):  Type:  Depth (inches):  Remarks:  YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Restrictive Layer (If present): Type: Depth (Inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (minimum of one require 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)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
Restrictive Layer (If present):  Type: Depth (Inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (E Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solls (C6)  Saturation Visible on Aerial Imagery (C9)
Restrictive Layer (if present): Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (E Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled 7) Thin Muck Surface (C7)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solls (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Restrictive Layer (If present): Type: Depth (Inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled 7) Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solls (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Restrictive Layer (if present):  Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Vater Table Present?  Ves  Ves  Ves	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solls (C6)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Restrictive Layer (If present):  Type: Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Ves Saturation Present? Yes Includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solls (C6) Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Restrictive Layer (If present):  Type: Depth (Inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (E Water-Stained Leaves (B9) Field Observations: Surface Water Present?  Ves Water Table Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  iving Roots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solls (C6) Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

WETLAND DETER	RMINATIO	ON DATA FORM -	- Arid West Region
Project/Site: PRC 421 Decommi	Sioni-e	Sty/County Cae 1	eta Sampling Date: 8/23/21
Applicant/Owner: State Canbs a			State: Sampling Point:
Investigator(s): In gamelle			
Landform (hillslope, terrace, etc.): Trova ce	1	Local relief (concave, o	convex, none): Slope (%):
Subregion (LRR): LPP C	_ Lat: 3	4,42699	Long: 119,90959 Datum:
Soil Map Unit Name: Beaches			NWI classification:
Are climatic / hydrologic conditions on the site typical for this	time of yea	r? Yes No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly o	listurbed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologyn	aturally prob	otematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sampling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	0	Is the Sampled	Area
Hydric Soil Present? Yes No		within a Wetlan	
Wetland Hydrology Present? Yes No	<u> </u>	( cont	al)
Remarks:	1	( )	DI 00 /
~ 223	<i>Y</i>	5	Burt toe
VEGETATION – Use scientific names of plan	The second secon		
Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet:  Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata:  (B)
4.		= Total Cover	Percent of Dominant Species 7 7
Sapling/Shrub Stratum (Plot size: 5 m. d) a		- Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. Atoplex lentermis	40	THE FAC	Prevalence Index worksheet:
2. Trankenja Jalina	5	ges then	Total % Cover of: Multiply by:  OBL species x 1 =
3			OBL species x1= FACW species x2= 10
5.	• • • • • • • • • • • • • • • • • • • •		FAC species x3 = Z40
	45	= Total Cover	FACU species x 4 =
1. Distributes opicates.	10	VIOL to	UPL species \( \frac{1}{100} \) \( \times 5 = \frac{7}{100} \)
2. Campo brothe edulis		481 1101	Column Totals: (A) 32 (B)
3.		-41-6	Prevalence Index = B/A = 3.3
4			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0¹
7			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	55	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)			1
1			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover			Vegetation Present?  Yes No
Remarks:			

Depth	Matrix	Redox F	eatures			
(inches)	Color (moist) %	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Fexture	Remarks
lydric Soll In Histosol (/ Histic Epir Black Hist Hydrogen Stratified I 1 cm Muci Depleted I Thick Darl	pedon (A2)	Reduced Matrix, CS=0	Covered or Coates se noted.) (S5) ( (S6) Mineral (F1) Matrix (F2) x (F3) urface (F6) Surface (F7) sions (F8)	d Sand Grains	ndicators for  1 cm Muc 2 cm Muc Reduced Red Pare Other (Ex	on: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils <sup>3</sup> : sk (A9) (LRR C) sk (A10) (LRR B) Vertic (F18) nt Material (TF2) plain in Remarks) hydrophytic vegetation and drology must be present, urbed or problematic.
Туре:	ayer (if present):			н	ydric Soil Pr	esent? Yes No
YDROLOG	iY ology Indicators;					
	tors (minimum of one required	check all that apply)			Seconda	ry Indicators (2 or more required)
Saturation Water Mai Sediment Drift Depo Surface Se Inundation	er Table (A2)  (A3)  rks (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  sits (B3) (Nonriverine)  oil Cracks (B6)  I Visible on Aerial Imagery (B7)  ined Leaves (B9)	Hydrogen Sul     Oxidized Rhiz     Presence of F     Recent Iron R	312) lebrates (B13) fide Odor (C1) cospheres along teleduced Iron (C4) leduction in Tilled	)	Sedi Drift Drain 3) Dry-t Cray Satu Shal	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (Clow Aquitard (D3) -Neutral Test (D5)
Surface Water Nater Table Po Saturation Pre- includes capill	Present?         Yes N           resent?         Yes N           sent?         Yes N           lary fringe)         N	o Depth (inche o Depth (inche	s):s	_   _ Wetland I		resent? Yes No
ASSETTOR RECO	rded Data (stream gauge, mor	iitoring weii, aeriai pho	ios, previous insp	pections), if ava	anable:	

WETLAND DETERMINATION DATA FORM - Arid West Region Decommissionil- gity/county: Goleta Sampling Date: ( Sampling Point: Ingamello Section, Township, Range: \_ Investigator(s): Tiorace Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): 34,42696 Long: Subregion (LRR): \_ LC C Beneles Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes \_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? 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? Is the Sampled Area Hydric Soil Present? within a Wetland% Wetland Hydrology Present? Martal Remarks: VEGETATION - Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: \_\_\_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 3. **FACW** species FAC species FACU species = Total Cover Herb Stratum (Plot size: UPL species Column Totals: \_ 2. Prevalence Index = B/A = 3. Hydrophytic Vegetation Indicators: Dominance Test Is >50% Prevalence Index is ≤3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) = 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 = Total Cover Vegetation % Cover of Biotic Crust Present? % Bare Ground in Herb Stratum \_\_\_ Remarks:

	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
Type: C=Concentration, D=Depletion, RM= lydric Soil Indicators: (Applicable to all I 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)	LRRs, unless otherwise noted.)  Sandy Redox (S5)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicator1 cm2 cmReduRedOthe	ocation: PL=Pore Lining, M=Matrix. 's for Problematic Hydric Sofls <sup>3</sup> :  Muck (A9) (LRR C)  Muck (A10) (LRR B)  iced Vertic (F18)  Parent Material (TF2)  r (Explain in Remarks)  s of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Vernal Pools (F9)		d hydrology must be present, disturbed or problematic.
Type: Depth (inches):		Hydric So	il Present? Yes No
Netland Hydrology Indicators:	check all that apply)	Qna	ondary Indicators /2 or more mayired
YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one 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 L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	iving Roots (C3) Soils (C6)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one 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)  Field Observations:  Surface Water Present? Yes None of the present o	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ) Thin Muck Surface (C7) Other (Explain in Remarks)  o Depth (inches): o Depth (inches):	lving Roots (C3) Solls (C6) Wetland Hydrolo	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 (Cs) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one 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)  Field Observations:  Surface Water Present? Yes None of the present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ) Thin Muck Surface (C7) Other (Explain in Remarks)  o Depth (inches): o Depth (inches):	lving Roots (C3) Solls (C6) Wetland Hydrolo	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 (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

	4-		And West Region	10
Project/Site: PRC 421 De Commis				12
Applicant/Owner: State Cands & a	ommiss	ion	State: Sampling Point:	~
		tion, Township, Ran		
Landform (hillslope, terrace, etc.): Tura ce	Loca	al relief (concave, c	onvex, none): YORR Slope (%):	
Subregion (LRR): LRP-C	Lat: 34	, 12713	Long: 119, 909 76 Datum:	
Soil Map Unit Name: Beaches			NWI classification:	
Are climatic / hydrologic conditions on the site typical for this	time of year?	YesNo	(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologys			Normal Circumstances" present? Yes No _	
Are Vegetation, Soil, or Hydrologyn	aturally problem	natic? (If nee	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing sar	mpling point lo	ocations, transects, important features,	etc.
Hydrophytic Vegetation Present? Yes No.   No.	o	Is the Sampled	1/	
Wetland Hydrology Present? Yes No	o	(Coait		
Remarks:	( N	top of	nek revetment sic	pe
VEGETATION – Use scientific names of plan	ts.			
Tree Stratum (Plot size:)		minant Indicator ecies? Status	Dominance Test worksheet:	
1		ociesi Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
3			Total Number of Dominant Species Across All Strata:	(B)
4	=T	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 676 (	(A/B)
Sapling/Shrub Stratum (Plot size: 5 m. d. a)	701	100 (10)		
1. Buchails phylais 2. Atriplex leastorms	30 4	101 500	Prevalence Index worksheet:  Total % Cover of: Multiply by:	
2. ATTOPICK PENTYDI WYS		107 TC	OBL species x1 =	53
3.			FACW species x2=	
5.			FAC species 70 x3= ZLO	
	60 =T	otal Cover	FACU species x 4 =	
Herb Stratum (Plot size: 3 m. din.)		35	UPL species 30 x5= 150	
1. Distichlis spients	404	es the	Column Totals: 100 (A) 360	(B)
3.			Prevalence Index = B/A = 3, 6	
3			Hydrophytic Vegetation Indicators:	
5.			Dominance Test is >50%	
6.			Prevalence Index is ≤3,0 <sup>1</sup>	
7			Morphological Adaptations¹ (Provide supporting	ng
8			data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	40_=T	Total Cover	Problematic riyotophytic vegetation (Explain)	,
1			¹Indicators of hydric soil and wetland hydrology mu	ust
2,			be present, unless disturbed or problematic.	
# # A 200 000	=T	Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	r of Biotic Crust		Present? Yes No	
Remarks:				

Profile Descri	ption: (Describe	to the depth	needed to docu	ment the Indi	cator o	or confirm	the absence o	of indicators	s.)	
Depth	Matrix			ox Features					•	
(inches)	Color (moist)	_%	Color (moist)	%T	ype <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
					-					5-0.000,0000,000
	****									
										W. W. COR.
				ne problems because						
Type: C=Con	centration, D=Depl	letion, RM=F	Reduced Matrix C	S=Covered or	Coated	Sand Gra	ins 2 oca	tion: PL¤Po	ore Lining	M=Matriy
	dicators: (Applica					ound ord	Indicators fo			
Histosol (A	.1)		Sandy Red	ox (S5)				ick (A9) (LR		
Histic Epip	edon (A2)		Stripped Ma					ick (A10) (L		
Black Histic				ky Mineral (F1				d Vertic (F18		
	Sulfide (A4)			yed Matrix (F2	)			ent Material		
	ayers (A5) (LRR 0 : (A9) (LRR D)	5)	Depleted M	7/4 2/3			Other (E	xplain in Re	marks)	
	lelow Dark Surface	ο (Δ11)		k Surface (F6) ark Surface (F						
	Surface (A12)	((11)		ressions (F8)	")		3Indicators of	f hydronhytic	c venetatio	n and
	ky Mineral (S1)		Vernal Pool					ydrology mu	•	
	yed Matrix (S4)			3 5					oblematic.	•
Restrictive La								torbod or pri		
resultane rg	yer (if present):			Mana P. A. Hilliam				torbod or pri		
	yer (if present):							tarboa or pro		
Туре:			*****				Hydric Soil P		Yes	No
Type: Depth (inche			*****						Yes	_ No
Type: Depth (inche			*****						Yes	No
Туре:			*****	The state of the s					Yes	No
Type: Depth (inche			*****						Yes	No
Type: Depth (inche Remarks:	es):		*****						Yes	No
Type:	es):		*****						Yes	No
Type:	Y Plogy Indicators:								Yes	No
Type:	es):			у)			Hydric Soil P	resent?		
Type: Depth (inche Remarks: YDROLOGY Wetland Hydro Surface Wa	Y  Plogy Indicators: ors (minimum of orater (A1)						Hydric Soil P	resent?	rs (2 or mo	re required)
Type: Depth (inche Remarks: YDROLOGY Wetland Hydro Primary Indicate Surface Wa High Water	Y plogy Indicators: ors (minimum of orater (A1) Table (A2)		check all that appl Salt Crust Biotic Crus	(B11) st (B12)			Hydric Soil P	resent?	rs (2 or mo 31) (Riverii	re required)
Type: Depth (inche Remarks: YDROLOGY Wetland Hydro Primary Indicate Surface Wa High Water Saturation	Y  plogy Indicators: ors (minimum of or ater (A1) Table (A2) (A3)	ne required;	check all that appl	(B11) st (B12)	13)		Hydric Soil P  Second  Wa Sec	resent?	rs (2 or mo 31) (Riverii psits (B2) (F	re required) ne) Riverine)
Type:	y plogy Indicators: ors (minimum of orater (A1) Table (A2) (A3) (S (B1) (Nonriverling)	ne required;	check all that appl Salt Crust Biotic Crus Aquatic In	(B11) st (B12) vertebrates (B Sulfide Odor (	C1)		Second Wa Sec Drif	ary Indicator ter Marks (E	rs (2 or mo 31) (Riverir osits (B2) (F B3) (Riveri	re required) ne) Riverine)
Type:	y plogy Indicators: ors (minimum of or ater (A1) Table (A2) (A3) (S (B1) (Nonriverline)	ne required; ne) nriverine)	check all that appl Salt Crust Biotic Crus Aquatic In	(B11) st (B12) vertebrates (B	C1)	iving Roots	Second Wa Sec Drif	ary Indicator ter Marks (E diment Deposits (I	rs (2 or mo 31) (Riverir usits (B2) (R B3) (Riverirns (B10)	re required) ne) Riverine) ine)
Type:	ors (minimum of or ater (A1) Table (A2) (A3) (S (B1) (Nonriverion Deposits (B2) (Nonriverion its (B3) (Nonriverion	ne required; ne) nriverine)	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrates (B Sulfide Odor (	C1) along L		Second.  Wa Sec Drif Dra s (C3) Dry	ary Indicator ter Marks (E diment Deposits (I inage Patter	rs (2 or mo 31) (Riverin ssits (B2) (Riverin 33) (Riverin 34) (Riverin 35) (Riverin 36) (Riverin	re required) ne) Riverine) ine)
Type:	y plogy Indicators: ors (minimum of or ater (A1) Table (A2) (A3) (s (B1) (Nonriveri Deposits (B2) (Non its (B3) (Nonriveri if Cracks (B6)	ne required; ne) nriverine) ine)	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Iro n Reduction in	C1) along L on (C4)		Second.  Wa Sec Drif Dra s (C3) Strong	ary Indicator ter Marks (E diment Deposits (I inage Patter Season Wa yfish Burrow uration Visik	rs (2 or mo 31) (Riverin ssits (B2) (Riverin rns (B10) ater Table ( vs (C8)	re required) ne) Riverine) ine)
Type:	ors (minimum of or ater (A1) Table (A2) (A3) (S (B1) (Nonriveri Deposits (B2) (Nonriveri it (B3) (Nonriveri if Cracks (B6)	ne required; ne) nriverine) ine)	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Iro n Reduction in Surface (C7)	C1) along L on (C4) n Tilled		Second.  Wa Sec Drif Dra s (C3) State Sha	ary Indicator ter Marks (E diment Deposits (I inage Patter -Season Wa lyfish Burrov uration Visib allow Aquitar	rs (2 or mo 31) (Riverin ssits (B2) (Riverin rns (B10) ater Table ( vs (C8) ole on Aeria	re required) ne) Riverine) ine)
Type:	ors (minimum of or ater (A1) Table (A2) (A3) (S (B1) (Nonriveri Deposits (B2) (Nonriveri if Cracks (B6) Visible on Aerial In and Leaves (B9)	ne required; ne) nriverine) ine)	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Iro n Reduction in	C1) along L on (C4) n Tilled		Second.  Wa Sec Drif Dra s (C3) State Sha	ary Indicator ter Marks (E diment Deposits (I inage Patter Season Wa yfish Burrow uration Visik	rs (2 or mo 31) (Riverin ssits (B2) (Riverin rns (B10) ater Table ( vs (C8) ole on Aeria	re required) ne) Riverine) ine)
Type:	object in Cracks (B6) Visible on Aerial Inded Leaves (B9) Jores (B	ne required; ne) nriverine) ine) magery (B7)	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Iro n Reduction in Surface (C7) olain in Remark	C1) along L on (C4) n Tilled ks)	Soils (C6)	Second.  Wa Sec Drif Dra s (C3) State Sha	ary Indicator ter Marks (E diment Deposits (I inage Patter -Season Wa lyfish Burrov uration Visib allow Aquitar	rs (2 or mo 31) (Riverin ssits (B2) (Riverin rns (B10) ater Table ( vs (C8) ole on Aeria	re required) ne) Riverine) ine)
Type: Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stair Field Observat Surface Water R	y plogy Indicators: ors (minimum of orater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	ne required; ne) nriverine) ine) magery (B7)	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Iro n Reduction in Surface (C7) olain in Remark	C1) along L on (C4) n Tilled ks)	Soils (C6)	Second.  Wa Sec Drif Dra s (C3) State Sha	ary Indicator ter Marks (E diment Deposits (I inage Patter -Season Wa lyfish Burrov uration Visib allow Aquitar	rs (2 or mo 31) (Riverin ssits (B2) (Riverin rns (B10) ater Table ( vs (C8) ole on Aeria	re required) ne) Riverine) ine)
Type: Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation	y  plogy Indicators: ors (minimum of orater (A1) Table (A2) (A3) (Ca) (A3) (Ca) (A3) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	ne required; ne) nriverine) ine) magery (B7) as No	check all that appl Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Iro n Reduction in Surface (C7) olain in Remark	C1) along L on (C4) n Tilled ks)	Soils (C6)	Second.  Wa Sec Drif Dra s (C3) State Sha	ary Indicator ter Marks (E diment Deposits (I inage Patter -Season Wa lyfish Burrov uration Visib allow Aquitar	rs (2 or mo 31) (Riverin ssits (B2) (Riverin rns (B10) ater Table ( vs (C8) ole on Aeria	re required) ne) Riverine) ine)

Remarks:

WEILAND DETERMINATION	UN DATA FORM -	
Project/Site: PRC 421 Decommissionity		
Applicant/Owner: State Cands Commis	bsilon	State: CFT Sampling Point: 13
Investigator(s): In gamello	Section, Township, Ran	
Landform (hillslope, terrace, etc.): Trova ce		
Subregion (LRR): LRP C Lat: 3	4.42740	Long: 119, 91014 Datum:
Soil Map Unit Name: Benefiel		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "N	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologynaturally pro	blematic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled	Area
Hydric Soil Present? Yes No	within a Wetland	
Wetland Hydrology Present? Yes No	Coart	, ,
Remarks: $\sim (3/\times 2)$	' 2 (	bluff toe
VEGETATION – Use scientific names of plants.		
Absolute Tree Stratum (Plot size:) % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3,		Species Across All Strata: (B)
4	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)
Sapling/Shrub Stratum (Plot size: 5 m. d.)	Mac 11Pl	
1. Bucchan's pilulan's 10	48/ UIL	Prevalence Index worksheet:
2. Atoplex lentitormin 10	yes pre	Total % Cover of: Multiply by:
3.	<del></del>	OBL species x1 = FACW species x2 =
4		FACW species x2=  FAC species 70 x3= 210
5	= Total Cover	FACU species x4 =
Herb Stratum (Plot size: 3 m. C)4.	51	UPL species 10 x5= 5°
1. Distreblis represta 60	Yel The	Column Totals: (A) 260 (B)
2	· · · · · · · · · · · · · · · · · · ·	Prevalence Index = B/A = 3.3
4.		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6.		Prevalence Index is ≤3.0¹
7		Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover	Problematic Hydrophytic Vegetation (Explain)
1		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Cover of Blotic C	= Total Cover	Hydrophytic Vegetation Present?  Yes No
Remarks:		

Depth Matrix	Redox Features	·
	% Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
	Proposition Proposition Proposition	tomoundaments business busines
		Secretarion of the Information o
Type: C=Concentration, D=Depletion	, RM=Reduced Matrix, CS=Covered or Coate	ed Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable t	to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Company of the Compan
Depleted Below Dark Surface (A1	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):	<del>0 10 - 0) 2)</del>	
Type:		
Depth (inches):	of the common of	Hydric Soil Present? Yes No
YDROLOGY		
YDROLOGY Vetland Hydrology Indicators:		
	quired; check all that apply)	Secondary Indicators (2 or more required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one rec		
Vetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Vetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<ul><li>Water Marks (B1) (Riverine)</li><li>Sediment Deposits (B2) (Riverine)</li><li>Drift Deposits (B3) (Riverine)</li></ul>
Vetland Hydrology Indicators:  Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriver	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Living Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  d Soils (C6)  Saturation Visible on Aerial Imagery (C
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction of the primary Indicators (Minimum of one reconstruction of the primary Indicators (Max Mater Marks (Max Max Max Max Max Max Max Max Max Max	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along I  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Living Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  d Soils (C6)  Saturation Visible on Aerial Imagery (Canada Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction of the primary Indicators (Minimum of one reconstruction of the primary Indicators (Max Mater Marks (Max Max Max Max Max Max Max Max Max Max	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along I  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction of the property of the proper	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along I  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Living Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along I  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled  Thin Muck Surface (C7)  Other (Explain in Remarks)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Living Roots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along i  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  ary (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Vater Table Present? Yes  Saturation Present? Yes  Includes capillary fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along i  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled  ary (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (inches):  No  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Vater Table Present? Yes  Saturation Present? Yes  Includes capillary fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along i  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  ary (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Vater Table Present? Yes  Saturation Present? Yes  Includes capillary fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along i  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled  ary (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (inches):  No  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction 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 Image  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Ves	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along i  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled  ary (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (inches):  No  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Vetland Hydrology Indicators:  Primary Indicators (minimum of one reconstruction of the property of the proper	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  rine)  Oxidized Rhizospheres along i  Presence of Reduced Iron (C4  Recent Iron Reduction in Tilled  ary (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (inches):  No  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

WETLAND DETERMINATION D	ATA FORM - A	Arid West Region
Project/Site: PRC 421 Decommussion Style	ounte Galle	ta Sampling Date: 8/23/2
Applicant/Owner: State Cands Commiss!		State: A Sampling Point: 14
Investigator(s): In gamely Section		21.1 0 201.1
Landform (hillslope, terrace, etc.): There is Local		
Subregion (LRR): LRP-C Lat: 34.		
Soil Map Unit Name: Beaches	, are	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? You	as V No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb		ormal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems		ed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point loc	ations, transects, important leatures, etc.
Hydrophytic Vegetation Present? YesNo	Is the Sampled Ar	rea
Hydric Soil Present? Yes No	within a Wetland?	
Wetland Hydrology Present? Yes V No No	coartal)	
Remarks:		<u> </u>
$\sim 90^{\circ} \times 12^{\circ}$	along	buff he
VEGETATION – Use scientific names of plants.	J	
Absolute Dom		Dominance Test worksheet:
Tree Stratum (Plot size:)	P	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.		
3.		Fotal Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species 67%
= Tol		That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size: 5 m. do) a  1. Atriple (un formis 2 4	es TACE	Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3.		OBL species x 1 =
4	F	ACW species x 2 =
5		=AC species $\frac{1}{2}$ x3= $\frac{231}{2}$
Herb Stratum (Plot size: 3 m. dy by		FACU species x4 =
1 Distribus sociente BJ U	es FAC	JPL species $x5 = \frac{127}{336}$ (B)
2. Carpo brother edulis 25 4	es up	
3. Polyposon monspellens 10 A	10 the	Prevalence Index = B/A =
4	T	Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.01
7		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8	tal Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	tai Cover	
1		hildicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic,
2		
= To		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust _		Present? Yes No
Remarks:		

Depth Matrix		or confirm the absence	or indicators.)
(inches) Color (moist) %	Redox Features Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
	RM=Reduced Matrix, CS=Covered or Coate	***************************************	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)	all LRRs, unless otherwise noted.)  Sandy Redox (S5)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)	1 cm M 2 cm M Reduce Red Pa	for Problematic Hydric Solls <sup>3</sup> : uck (A9) (LRR C) uck (A10) (LRR B) od Verlic (F18) rent Material (TF2) Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	wetland h	of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Type: Depth (inches):		Hydric Soil	Present? Yes No
kemarks:			
YDROLOGY Vetland Hydrology Indicators:			
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one requ	ired; check all that apply)	Secon	dary Indicators (2 or more required)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one requestions)  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  Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled		ater Marks (B1) (Riverine) idiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one requestion 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  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Ves  Vater Table Present?  Yes  Saturation Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Wetland Hydrology	ater Marks (B1) (Riverine) idiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C allow Aquitard (D3) C-Neutral Test (D5)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one requestion 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  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Ves  Vater Table Present?  Yes  Saturation Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (Inches): No Depth (Inches):	Wetland Hydrology	ater Marks (B1) (Riverine) idiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C allow Aquitard (D3) C-Neutral Test (D5)

WETLAND DETERMINATION D	ATA FORM – Arid West Region
Project/Site: PRC 421 Decommission Style	ounty: Goleta Sampling Date: 8/23/2
Applicant/Owner: State Cand S Commission	State: CA Sampling Point: 15
Investigator(s): In gamelly Section	
Landform (hillslope, terrace, etc.): Tionace Local	
Subregion (LRR): LCP C Lat: 34	42752 Long: 119 91034 Datum:
$\sim$	NWI classification:
7	` /
Are climatic / hydrologic conditions on the site typical for this time of year? You	. /
Are Vegetation, Soil, or Hydrology significantly disturb  Are Vegetation, Soil, or Hydrology naturally problema	
7	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	( Dallat )
Remarks:	+ rock revetant slope
10'x10' N top a	1000
V	
VEGETATION – Use scientific names of plants.	L. I. I. I. Davidson Tabasalahada
Absolute Dom Tree Stratum (Plot size:) % Cover Spec	
1	That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata; (B)
4	Percent of Dominant Species 100 / (A/B)
Sapling/Shrub Stratum (Plot size: 5 m, d, R = Tol	tal Cover That Are OBL, FACW, or FAC: (A/B)
1. Atrolax bentforms 5 4	LI FAC Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x2 = FAC species 100 x3 = 300
5	
Herb Stratum (Plot size: 3 m, dish	tal Cover FACU species x4 = UPL species x5 =
1. Distrehus spicata 95 4	Column Totals: 100 (A) 300 (B)
2.	
3,	Prevalence Index = B/A =
4	Hydrophytic Vegetation Indicators:
5	
6	Marphological Adaptations 1 (Provide supporting
7	data in Remarks or on a separate sheet)
8	tal Cover Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	
1	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	tal Cover Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Vegetation (/
Remarks:	- Language
\$000001.000004.000.000	

	15
Sampling Point:	1)

Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Textu	re Remarks
Fype: C=Concentration, D=Depletion, RI	M=Reduced Matrix, CS=Covered or Coated	1 Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to a	ill LRRs, unless otherwise noted.)	Indica	ators for Problematic Hydric Solls <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1	cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		educed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		ed Parent Material (TF2)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)	Depleted Matrix (F3) Redox Dark Surface (F6)	0	ther (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)	3Indica	ators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		land hydrology must be present,
Sandy Gleyed Matrix (S4)		unle	ess disturbed or problematic,
Restrictive Layer (if present):			
Restrictive Layer (if present): Type:	er-research		
Type: Depth (inches):		Hydric	Soll Present? Yes No
Type: Depth (inches): Remarks:		Hydric	Soll Present? Yes No
Type:		Hydric	Soll Present? Yes No
Type: Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators:			
Depth (inches):  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requir	red; check all that apply)		Secondary Indicators (2 or more required)
Type: Depth (inches): Remarks:  YDROLOGY  Netland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1)	red; check all that apply) Salt Crust (B11)		Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Type: Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requir	red; check all that apply) Salt Crust (B11) Biotic Crust (B12)		Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Type: Depth (inches): Remarks:  YDROLOGY  Netland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2)	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Type: Depth (inches): Remarks:  YDROLOGY  Netland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3)	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)		Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Type: Depth (inches): Remarks:  YDROLOGY  Netland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	iving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Type: Depth (inches): Remarks:  YDROLOGY  Netland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivertne) Sediment Deposits (B2) (Nonrivertne)	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L	iving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Type:	red; check all that apply)  Sait Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled	iving Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
Type:	red; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	living Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C
Type:	red; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled B7) Thin Muck Surface (C7)	living Roots (C3)	Gecondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C
Type:	red; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled B7) Thin Muck Surface (C7)	iving Roots (C3)	Gecondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C
Type:	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  o) Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  B7) Thin Muck Surface (C7)  Other (Explain in Remarks)	iving Roots (C3)	Gecondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C
Type:	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  B7) Thin Muck Surface (C7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	iving Roots (C3) Soils (C6)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	red; check all that apply)  Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled B7) Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches):	iving Roots (C3) Soils (C6)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  B7) Thin Muck Surface (C7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	iving Roots (C3) Soils (C6)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  B7) Thin Muck Surface (C7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	iving Roots (C3) Soils (C6)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	red; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  B7) Thin Muck Surface (C7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	iving Roots (C3) Soils (C6)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region De commissionit stylcounty: Goleta Sampling Point: Ingamelle Section, Township, Range: Investigator(s): Landform (hillslope, terrace, etc.): Tiva ce Local relief (concave, convex, none): Subregion (LRR): \_\_LPP Datum: NWI classification: Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION – Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: \_\_\_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species Across All Strata: Percent of Dominant Species \_\_\_ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: \_\_\_\_ Prevalence Index worksheet: Total % Cover of: 3. OBL species FACW species FAC species FACU species = Total Cover Herb Stratum (Plot size: 3 UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Woody Vine Stratum (Plot size: \_\_\_\_ <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Cover of Biotic Crust Present? Yes % Bare Ground in Herb Stratum Remarks:

Profile Description: (Describe to the depth	needed to document the indicator or confirm th	Sampling Point: / C
Depth Matrix	Redox Features	o asserted of materials,
(inches) Color (moist) %		Texture Remarks
And the second s		***************************************
	educed Matrix, CS=Covered or Coated Sand Grains	
Hydric Soil Indicators: (Applicable to all LR		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 cm Muck (A10) (LRR B)
Black Histic (A3)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	3
Thick Dark Surface (A12)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	· · · · · · · · · · · · · · · · · · ·	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:	_	
Depth (inches):		lydric Soil Present? Yes No
Remarks:		
YDROLOGY		
YDROLOGY Wetland Hydrology Indicators:	200000000000000000000000000000000000000	
	heck all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	heck all that apply) Salt Crust (B11)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; c		Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; c Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C2) Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c 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)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C2) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C2) Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)

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

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

US Army Corps of Engineers

Water Table Present?

Remarks:

Wetland Hydrology Present? Yes \_\_\_\_

WETLAND DETER	MINATIO	DN DATA	FORM -	- Arid West Region
Project/Site: PRC 421 Decommus				
Applicant/Owner: State Canbs 6				State: Sampling Point:
Investigator(s): Ingamelle		Section, Tow	mship, Rar	nge: 74N R29W
Landform (hillslope, terrace, etc.): Thorace		Local relief (	concave, c	convex, none): 1000 Slope (%):
Subregion (LRR): LRP-C	Lat:	14, 120	PO1	Long: 119, 91103 Datum:
Soll Map Unit Name: Blacker			/_	NWI classification:
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	No_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig			Are "I	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na	turally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing	sampling	point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled	Area
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No			a Wetlan	
Wetland Hydrology Present? Yes No Remarks:		1/0	) altal	
	x	1	<u> </u>	bluff, toe and
~32 ' k	7			routary
VEGETATION – Use scientific names of plants	s.			Citary
	Absolute	Dominant I	ndicator	Dominance Test worksheet:
	% Cover	Species?		Number of Dominant Species That Are OBL, FACW, or FAC:
2.				Total Number of Dominant
3				Species Across All Strata: (B)
Cauling/Chrish Ctratium /Dist size: 7 (1)	87	= Total Cov	er	Percent of Dominant Species That Are OBL, FACW, or FAC:
1. Atoplex lent kimis	Σ'	Yes	TALC	Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3				OBL species x1=
4				FACW species $30 \times 2 = 60$
5				FAC species 3 x3 = 9 FACU species 60 x4 = 240
Herb Stratum (Plot size: 3 m. org		= Total Cov	er	UPL species 5 x4 = 240
1. Polypogon monspeliens	30	Yen	TALL	Column Totals: $98$ (A) $334$ (B)
2. Heliotropium curassavicum	60	Yes	FACU	Column rotation(C)
3. Carpo broty exalir	5	No.	UPL	Prevalence Index = B/A = 3,4
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index Is ≤3.01
7				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8		T.10		Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	-41	= Total Cov	er	
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
% Bare Ground in Herb Stratum % Cover		_ = Total Cov rust		Hydrophytic Vegetation Present? YesNo
Remarks:				

Depth Matrix	oth needed to document the indicate Redox Features		
(inches) Color (molst) %	Color (molst) % Type	1 Loc <sup>2</sup> Texture	Remarks
Type: C=Concentration, D=Depletion, RM lydric Soil Indicators: (Applicable to all Histosoi (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Suffide (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)		Indicator  1 cm 2 cm Redu Red I Other	bocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> : Muck (A9) (LRR C) Muck (A10) (LRR B) cad Vertic (F18) Parent Material (TF2) (Explain in Remarks) s of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Vernal Pools (F9)		I hydrology must be present, disturbed or problematic.
Type: Depth (inches): Remarks:		Hydric So	Il Present? Yes No
YDROLOGY			
YDROLOGY Wetland Hydrology Indicators:	ti shock all that apply	Pose	andon Indicators (2) on more required.
	d; check all that apply) Salt Crust (B11) Biotic Crust (B12)		endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elor	) ng Living Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
Netland Hydrology Indicators:  Primary Indicators (minimum of one require)  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 (B  Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Ti	ng Living Roots (C3)   C4)   Iled Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  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 (B  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Ti 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	)   ng Living Roots (C3)   (C4)   lled Soils (C6)	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 (C) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one 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 (Batter)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Ves  Saturation Present? Yes  Saturation Present? Yes  Saturation Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1' Oxidized Rhizospheres elor Presence of Reduced Iron ( Recent Iron Reduction in Ti 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Deg Living Roots (C3)	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 (C) Shallow Aquitard (D3)
Netland Hydrology Indicators:  Primary Indicators (minimum of one require  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 (B  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Ves  Nater Table Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1' Oxidized Rhizospheres elor Presence of Reduced Iron ( Recent Iron Reduction in Ti 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Deg Living Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drialnage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETER	RMINATIO	ON DATA FORM -	- Arid West Region
Project/Site: PRC 42 ( DeCommular Decommular Decommular Decommular Decommular Decommular Decommular Decommular Decommular Decomposition (hillslope, terrace, etc.): There exists a subregion (LRR): Left C Subregion (LRR): Left C Soil Map Unit Name: Blacker Are climatic / hydrologic conditions on the site typical for this Are Vegetation Soil or Hydrology sides are Vegetation Soil or Hydrology Rummary OF FINDINGS - Attach site map sides and site of the sides o	Lat: 3	Sity/County: Cao Les Silv M Section, Township, Ran Local relief (concave, of Arch 73 de 18	Sampling Date: \$\frac{123}{2}\$  State: CA Sampling Point: 18  Ige: TAN R 2 9 W  Sonvex, none): 1000 Slope (%): Datum:  NWI classification: M 2 0 Slope (%): Normal Circumstances" present? Yes No Seded, explain any answers in Remarks.)  Docations, transects, important features, etc.
Wetland Hydrology Present? Yes No	0	(Coastas	
On beach at imig	ation	(	
VEGETATION - Use scientific names of plant	ts.		
Tree Stratum (Plot size:)  1	% Cover 50	= Total Cover  Ver OBC	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply by:  OBL species  FACW species  FACW species  FACU species  FACU species  Column Totals:  We have the prevalence Index = B/A =
7	50	= Total Cover	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present?  Yes No
Remarks:	of biotic of		TIOSORT TESRO

Depth (inches) C		o mo nopm	needed to docur	nent the ind	dicator (	or confirm t	the absence of	f indicators.)
(inches) C	Matrix	0/		x Features	T. 1	. 2	<b></b>	Б
	olor (moist)		Color (moist)		туре	Loc <sup>2</sup>	Texture	Remarks
Type: C=Concent	ration, D=Deple	etion, RM=Re	educed Matrix, CS	=Covered o	r Coate	d Sand Grai	ins. <sup>2</sup> Local	tion: PL=Pore Lining, M≕Matr
Hydric Soil Indica	tors: (Applica	ble to all LR	Rs, unless other	wise noted.	.)		Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Sandy Redo	x (S5)				ck (A9) (LRR C)
Histic Epipedo			Stripped Ma		200			ck (A10) (LRR B)
Black Histic (A	0.00		Loamy Mucl				Reduced	
_ Hydrogen Sulfi Stratified Lave	[시험] [[[의 [인] [인] [[[의 [] ] ] ] [[의 [] [[의 [] ] ] ] [[의 [] ] ] [[의 [] ] [[의 [] ] ] [[의 [] ] ] [[의 [] ] [[의 [] ] ] [[의 [] ] ] [[의 [] ] ] [[의 [] ] [[의 [] ] ] [[의 [] ] ] [[의 [] ] [[] ] [[] ] [[] ] [[] [[		Loamy Gley		2)			ent Material (TF2)
Stratified Layer	rs (A5) (LRR C)	)	Depleted Ma Redox Dark		21		Other (E:	xplain in Remarks)
	w Dark Surface	(A11)	Redox Dark Depleted Da					
Thick Dark Sur		(711)	Redox Depr				3Indicators of	hydrophytic vegetation and
Sandy Mucky I			Vernal Pools		,			drology must be present,
Sandy Gleyed			-	- ()				urbed or problematic.
Restrictive Layer								
Type:								
Type: Depth (inches):			_				Hydric Soil P	resent? Yes No
Depth (inches):					- (3-21-1-		Hydric Soll P	resent? Yes No
Depth (inches): Remarks:  YDROLOGY  Wetland Hydrolog Primary Indicators V Surface Water High Water Tal Saturation (A3) Water Marks (6) Sediment Depo Drift Deposits (6) Surface Soil Col Inundation Visi	y Indicators: (minimum of on (A1) ble (A2) ) B1) (Nonriverin osits (B2) (Nonri B3) (Nonriverin racks (B6) ble on Aerial Im	ne required; c	heck all that apply Salt Crust ( Biotic Crust ( Aquatic Inv Hydrogen ( Oxidized R Presence of Recent Iron	(B11) t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7	(C1) s along to ron (C4) in Tilled ()	)	Seconda  Wat Sed Drift Dra  (C3) Dry Cra Satu	ary Indicators (2 or more requiter Marks (B1) (Riverine) Ilment Deposits (B2) (Riverine) It Deposits (B3) (Riverine) Inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Image
Depth (inches): Remarks:  YDROLOGY  Wetland Hydrolog Primary Indicators V Surface Water High Water Tal V Saturation (A3) Water Marks (6) Sediment Depo Drift Deposits (6) Surface Soil Co Inundation Visi Water-Stained	y Indicators: (minimum of on (A1) ble (A2) ) B1) (Nonriverin osits (B2) (Nonriverin (B3) (Nonriverin racks (B6) ble on Aerial Im Leaves (B9)	ne required; c	heck all that apply Salt Crust ( Biotic Crust ( Aquatic Inv Hydrogen ( Oxidized R Presence of Recent Iron	(B11) t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction	(C1) s along to ron (C4) in Tilled ()	)	Seconda  Wat Sed Drift Dra  (C3) Dry Cra Satu	ary Indicators (2 or more requiter Marks (B1) (Riverine) Ilment Deposits (B2) (Riverine) Inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Image
Depth (inches): Remarks:  YDROLOGY  Wetland Hydrolog Primary Indicators V Surface Water High Water Tai Saturation (A3) Water Marks (6 Sediment Depo Drift Deposits ( Surface Soil Cr Inundation Visi Water-Stained	y Indicators: (minimum of on (A1) ble (A2) ) B1) (Nonriverin basits (B2) (Nonriverin racks (B6) ble on Aerial Im Leaves (B9) s:	ne) riverine) nagery (B7)	heck all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen 3 Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7	(C1) s along to ron (C4) in Tilled ()	)	Seconda  Wat Sed Drift Dra  (C3) Dry Cra Satu	ary Indicators (2 or more requiter Marks (B1) (Riverine) Ilment Deposits (B2) (Riverine) It Deposits (B3) (Riverine) Inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Image
Depth (inches): Remarks:  YDROLOGY  Wetland Hydrolog Primary Indicators V Surface Water High Water Tal Saturation (A3) Water Marks (6) Sediment Depo Drift Deposits (6) Surface Soil Col Inundation Visi	y Indicators: (minimum of on (A1) ble (A2) ) B1) (Nonriverin beits (B2) (Nonriverin racks (B6) ble on Aerial Im Leaves (B9) s: sent? Yes	ne) riverine) ne)	heck all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iror Thin Muck Other (Exp	(B11) t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) s along to ron (C4) in Tilled ()	)	Seconda  Wat Sed Drift Dra  (C3) Dry Cra Satu	ary Indicators (2 or more requiter Marks (B1) (Riverine) Ilment Deposits (B2) (Riverine) It Deposits (B3) (Riverine) Inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Image

WETLAND DETER	NOITANIM	DATA FORM -	- Arid West Region
Project/Site: PRC 42 ( DCCO MIMI) Applicant/Owner: State Can & S & Investigator(s): In gamelle Landform (hillslope, terrace, etc.): There is a subregion (LRR): LCP C Soil Map Unit Name: Gooleta Lean 0 - 2 Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology si Are Vegetation, Soil, or Hydrology no SUMMARY OF FINDINGS - Attach site map site of the	Section Sectin Section Section Section Section Section Section Section Section	on, Township, Rar I relief (concave, of 29 Z J  Yes No_ bed? Are " atlic? (If ne	State: CA Sampling Point: 19 nge: T4N & 2 9 W  convex, none): 1000 Slope (%): Long: U9 912 7 7 Datum: NWI classification: E2 CM 1 P  (If no, explain in Remarks.)  Normal Circumstances" present? Yes No eded, explain any answers in Remarks.)
Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	o	Is the Sampled within a Wetlan	d? Yes No
Brackish a	navsh	at	Pell Campor Creek
VEGETATION – Use scientific names of plant	ts.		,
<u>Tree Stratum</u> (Plot size:)  1 2 3.	% Cover Spe	ninant Indicator ccles? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  (B)
4	= To	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply by:
3		otal Cover	OBL species
1. Distichlis spicata 2. Jaumen Carnosa 3. Bolboschoenus robuttur 4.	80 4. 15 A	es FAC 10 OBI	Column Totals: (OO (A) 260 (B)  Prevalence Index = B/A = 2, 6  Hydrophytic Vegetation Indicators:
5			
Woody Vine Stratum (Plot size:)  1		otal Cover	Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Cover	= To		Hydrophytic Vegetation Present?  Yes No
Remarks:			

. 1	h needed to document the indicator or confi	in the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features  Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
monos) Solo (moist)	2	Totals
	Annual property and the second	***************************************
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand (	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
_ Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
estrictive Layer (if present):		
Type:		
Depth (inches):emarks:		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):emarks:		Hydric Soil Present? Yes No
Depth (inches): lemarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required)		
Depth (inches):emarks:  /DROLOGY // Vetland Hydrology Indicators: rimary Indicators (minimum of one required; _ Surface Water (A1)		Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Depth (inches):emarks:  /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required; _ Surface Water (A1) _ High Water Table (A2)	; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):emarks:  /DROLOGY // Vetland Hydrology Indicators: rimary Indicators (minimum of one required; _ Surface Water (A1)	; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Depth (inches):emarks:  /DROLOGY // Jetland Hydrology Indicators: rimary Indicators (minimum of one required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Depth (inches):emarks:  /DROLOGY  /etland Hydrology Indicators: rimary Indicators (minimum of one required; _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine)	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dots (C3) Dry-Season Water Table (C2)
Depth (inches):emarks:  /DROLOGY // Jetland Hydrology Indicators: rimary Indicators (minimum of one required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Depth (inches):emarks:  //DROLOGY //etland Hydrology Indicators; rimary Indicators (minimum of one 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)	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)  — Drift Deposits (B3) (Riverine)  — Drainage Patterns (B10)  pots (C3) — Dry-Season Water Table (C2)  — Crayfish Burrows (C8)
Depth (inches):emarks:  //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Oots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery ( Shallow Aquitard (D3)
Depth (inches):emarks:  //DROLOGY //etland Hydrology Indicators; rimary Indicators (minimum of one 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)	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)  — Drift Deposits (B3) (Riverine)  — Drainage Patterns (B10)  Dots (C3) — Dry-Season Water Table (C2)  — Crayfish Burrows (C8)  C6) — Saturation Visible on Aerial Imagery (
Depth (inches):	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc.  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Oots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery ( Shallow Aquitard (D3)
Depth (inches):	; check all that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc.  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Oots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)
Depth (inches):emarks:  //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one required;	Check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roman Recent Iron Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Oots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)
Depth (inches):	Scheck all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roman Recent Iron Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Oots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)
Depth (inches):	; check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C) Thin Muck Surface (C7) Other (Explain in Remarks)    Depth (inches):     Depth (inches):     Depth (inches):     Depth (inches):     Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery ( Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (inches):	Scheck all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roman Recent Iron Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery ( Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (inches):	Selt Crust (B11) Solt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roman Recent Iron Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Weinitoring well, aerial photos, previous inspections)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)