Appendix I

Delineation of Potential Jurisdictional Wetlands and Other Waters Under Section 404 of the Clean Water Act and the California Coastal Act

PURE WATER MONTEREY GROUNDWATER REPLENISHMENT PROJECT

Delineation of Potential Jurisdictional Wetlands and Other Waters Under Section 404 of the Clean Water Act and the California Coastal Act

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Prepared for:

Monterey Regional Water Pollution Control Agency (MRWPCA) 5 Harris Court, Bldg. D Monterey, CA 93940



Prepared by:

Denise Duffy & Associates, Inc. Contact: Matt Johnson 947 Cass Street, Suite 5 Monterey, CA 93940



Table of Contents

1 INTRODU	JCTION	1
1.1.	SUMMARY	1
1.2.	PROJECT DESCRIPTION	
1.3.	REGULATORY BACKGROUND	
1.3.1		
1.3.2		
	-	
2. METHOD)S	7
2.1.	FIELD METHODS	7
2.1.1	Vegetation	7
2.1.2	Soils	8
2.1.3	Hydrology	8
3. DESCRIP	TION OF EVALUATION AREAS	11
3.1.	RECLAMATION DITCH DIVERSION	11
3.1.1		
3.1.2	5	
3.1.3		
3.2.	Tembladero Slough Diversion	
3.2.1		
3.2.2	5	
3.2.3		
3.3.	BLANCO DRAIN DIVERSION	
3.3.1		-
3.3.2	5	
3.3.3		
3.4.	Locke Paddon Lake	
3.4.1		
3.4.2	5	
3.4.3		
3.5.	ROBERTS LAKE	
3.5.1		
3.5.2	5	
3.5.3		
3.6.	LAKE EL ESTERO DIVERSION	
3.6.1		
3.6.2	Soils	
3.6.3		
3.7.	Ditch	
3.7.1		
3.7.2		
3.7.3		
4. RESULTS		24
4.1.	Reclamation Ditch Diversion	
4.1.1		
4.1.2	- 5	
4.1.2		
4.1.5	Tembladero Slough Diversion	
4.2.1		
7.2.1		

4.2.2.	Soils	21
4.2.2.	Suns	
	Blanco Drain Diversion	
4.3.	Vegetation	
4.3.1.	Soils	
4.3.2.	Suns Hydrology	
	Locke Paddon Lake	
4.4. <i>4.4.1.</i>	Vegetation	
4.4.1.	Soils	
4.4.2. 4.4.3.	Suns	
	Roberts Lake	
4.5. <i>4.5.1.</i>	Vegetation	
4.5.2.	Soils	
4.5.2.	Suns	
	Lake EL Estero Diversion	
4.0.	Vegetation	
4.6.2.	Soils	
4.6.3.	Suns	
	Пуслоюду	
4.7.1.	Vegetation	
4.7.2.	Soils	
4.7.3.	Hydrology	
-	۲/)	
5. JURISDIC	110N	35
5.1.	Federal Jurisdiction	35
5.1.1.	Reclamation Ditch Diversion	
5.1.2.	Tembladero Slough Diversion	35
5.1.3.	Blanco Drain Diversion	35
5.1.4.	Locke Paddon Lake	35
5.1.5.	Roberts Lake	35
5.1.6.	Lake El Estero Diversion	35
5.1.7.	Ditch	36
5.2.	CCC JURISDICTION	36
5.2.1.	Reclamation Ditch Diversion	36
5.2.2.	Tembladero Slough Diversion	36
5.2.3.	Blanco Drain Diversion	36
5.2.4.	Locke Paddon Lake	36
5.2.5.	Roberts Lake	
5.2.6.	Lake El Estero Diversion	
5.2.7.	Ditch	36
6. REFEREN	CES	37
ADDENIDI		
APPENDI	X A: WETLAND DETERMINATION DATA FORMS FOR THE ARID WEST REGIO	N

List of Figures

Figure 1: Location Map	2
Figure 2. Ditch and Tembladero Slough, Reclamation Ditch and Blanco Drain Diversion Sites	
Soil Map	. 12
Figure 3. Locke Paddon Lake, Roberts Lake, and Lake El Estero Evaluation Areas Soil Map	. 18
Figure 4. Reclamation Ditch Diversion Wetland Delineation Map	. 25
Figure 5. Tembladero Slough Diversion Wetland Delineation Map	. 26
Figure 6. Blanco Drain Diversion Wetland Delineation Map	. 28
Figure 7. Locke Paddon Lake Wetland Delineation Map	. 29
Figure 8. Roberts Lake Wetland Delineation Map	. 30
Figure 9. Lake El Estero Diversion Wetland Delineation Map	. 32

List of Tables

Table 1-1: Wetlands and Other Waters in the Evaluation Area	1
Table 2-1: Wetland Vegetation Classification System	8

1 Introduction

1.1. Summary

The Proposed Pure Water Monterey Groundwater Replenishment Project (GWR Project) components, including the proposed water treatment plant, diversion and transmission pipelines, injection well locations, and potential staging areas, were evaluated to identify areas potentially supporting coastal wetlands, federal wetlands, and other waters. Six locations within the project area were identified as being within or adjacent to potentially jurisdictional wetlands: Reclamation Ditch Diversion site, Tembladero Slough Diversion site, Blanco Drain Diversion site, Locke Paddon Lake, Roberts Lake, and Lake El Estero Diversion site. In addition to the potential for direct impacts of the six locations, reaches downstream of the Reclamation Ditch and Tembladero Diversion sites were evaluated because the operation of the project has the potential to indirectly impact wetlands as a result of the proposed water diversion. This area is referred to as the "Ditch" throughout this report.

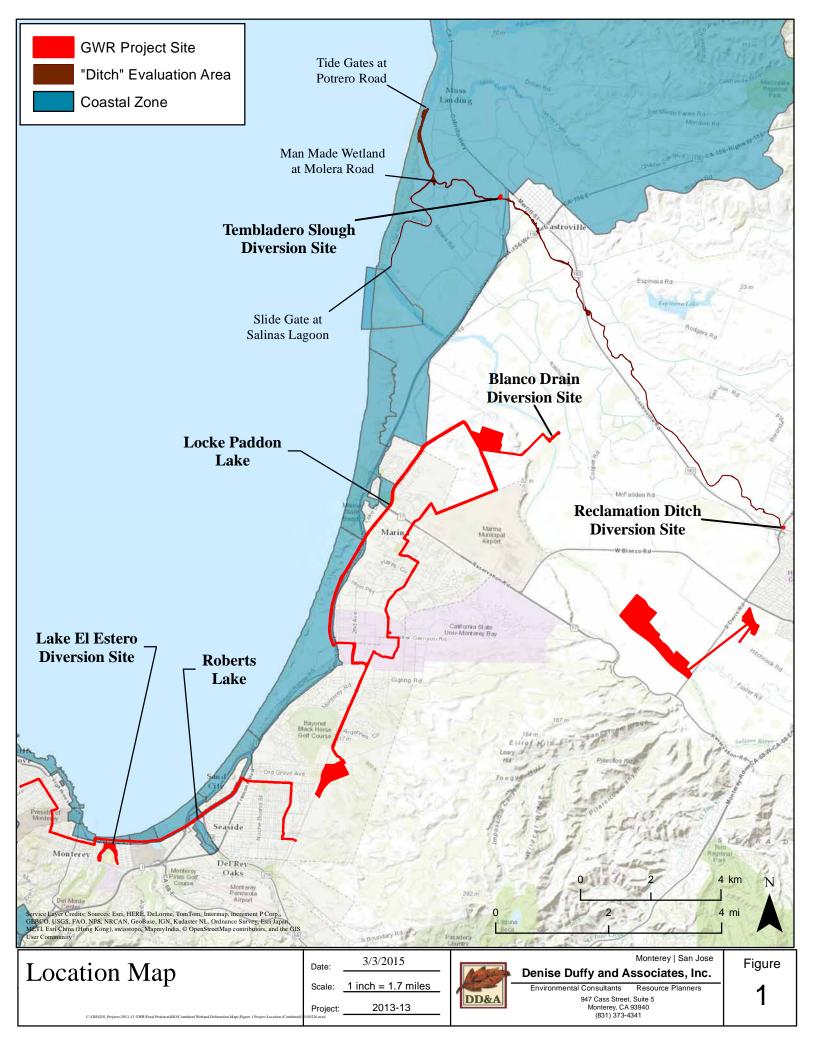
This wetland delineation was conducted in accordance with *The Field Guide for Wetland Delineation:* 1987 Corps of Engineers Manual (Wetland Training Institute, 2002) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (U.S. Army Corps of Engineers [ACOE], 2008) to identify the present of wetlands and other waters potentially under the jurisdiction of the ACOE and the California Coastal Commission (CCC). Wetlands and/or other waters were identified within five of the six locations and within the Ditch. Wetlands and other waters observed within the adjacent Lake El Estero Diversion site; however, wetlands and other waters observed within the area of wetlands and other waters identified within the evaluation areas.

Evaluation Area	Potential Federal Wetland	Potential Coastal Wetland	Potential Other Waters of the U.S.
Reclamation Ditch Diversion	0 ac.	0 ac.	0.05 ac.
Tembladero Slough Diversion	0 ac.	0.01 ac.	0.20 ac.
Blanco Drain Diversion	0 ac.	0 ac.	0.30 ac.
Locke Paddon Lake	0.26 ac.	0.57 ac.	0 ac.
Roberts Lake	0.55 ac.	0.57 ac.	0.25 ac.
Lake El Estero Diversion	0 ac.	0 ac.	0 ac.
Ditch	14.48 ac.	18.37 ac.	51.15 ac.

Table 1-1: Wetlands and Other Waters in the Evaluation Area

1.2. Project Description

This wetland delineation report was prepared for the GWR Project, located in Monterey County, California (**Figure 1**). The purpose of the GWR Project is to create a reliable source of water supply by taking highly-treated water from a new advanced water treatment plant, and injecting it into the Seaside Groundwater Basin (or Seaside Basin) using a series of shallow and deep injection wells. Once injected into the Seaside Basin, the treated water would mix with the existing groundwater in the aquifers and be stored for future use. Providing high quality replacement water to the Seaside Basin will allow California American Water Company (CalAm) to extract the same amount of water for delivery as it currently does to its customers in the Monterey District service area, while ceasing over-pumping of the Carmel River, as ordered by the state.



The entire GWR Project, including the proposed water treatment plant, diversion and transmission pipelines, injection well locations, and potential staging areas, was evaluated to identify areas potentially supporting state or federal jurisdictional wetlands and other waters. Six locations within the project area were identified as being within or adjacent to potentially jurisdictional wetlands: Reclamation Ditch Diversion site, Tembladero Slough Diversion site, Blanco Drain Diversion site, Locke Paddon Lake, Roberts Lake, and Lake El Estero Diversion site (**Figure 1**). All four diversion sites are existing outfalls that will require the development of additional physical infrastructure. No diversion is proposed from Lock Paddon or Roberts Lake; however, they are included in this delineation because new transmission line alignments are proposed adjacent to them.

In addition to the potential for direct impacts of the six locations identified above, reaches downstream of the Reclamation Ditch and Tembladero Diversion sites were evaluated because the operation of the project has the potential to indirectly impact wetlands as a result of the proposed water diversion. For this evaluation, "Ditch" refers to the channel alignment downstream of the Reclamation Ditch Diversion to the tide gates at Potrero Road in Moss Landing, California, and includes portions of the Reclamation Ditch, Tembladero Slough, and the Old Salinas River Channel. Additionally, "Ditch" includes the Old Salinas River Channel upstream of the confluence with the Tembladero Slough to the slide gate on the Salinas Lagoon. The evaluation area does not include areas downstream of the tide gates as the proposed diversions would not appreciably change the hydrology or hydrologic regime beyond the gates, and would not result in impacts to wetlands beyond the tide gates. A delineation was not performed on the Salinas River downstream of the proposed Blanco Drain Diversion, as it was determined that the small amount of water proposed for diversion was negligible in the context of the existing flow and would have a less than significant impact on the wetlands or other waters below the diversion. This report also identifies wetlands and other waters present within Lake El Estero, adjacent to the Lake El Estero Diversion site; however, no impacts to this resource are expected as a result of the project. The City of Monterey actively manages the water level in Lake El Estero so that there is storage capacity for large storm events. Prior to a storm event, the lake level is lowered by pumping or gravity flow for discharge to Del Monte Beach. The Proposed Project would include improvements that would enable water that would otherwise be discharged to the beach to instead be conveyed to the Regional Treatment Plant to be recycled.

1.3. Regulatory Background

1.3.1. Federal Regulation

The U.S. Army Corps of Engineers (ACOE) is the primary federal agency responsible for regulating wetlands and waters of the United States (waters).

1.3.1.1. Wetlands

ACOE provides technical guidelines on wetland delineation in *The Field Guide for Wetland Delineation:* 1987 Corps of Engineers Manual (Wetland Manual) (Wetland Training Institute, 2002). The Wetland Manual defines wetlands and the three environmental diagnostics (or parameters) as:

- a. *Definition.* The ACOE (ACOE 1982) and the EPA (EPA 1980) jointly define wetlands as: Those areas that are inundated or saturated by surface or ground water 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.
- b. *Diagnostic environmental characteristics*. Wetlands have the following general diagnostic environmental characteristics:

(1) *Vegetation*. The prevalent vegetation consists of macrophytes that are typically adapted to areas having hydrologic and soil conditions described in *a* above. Hydrophytic species, due to morphological, physiological, and/or reproductive adaptation(s), have the ability to grow, effectively compete, reproduce, and/or persist in anaerobic soil conditions.

(2) *Soil.* Soils are present and have been classified as hydric, or they possess characteristics that are associated with reducing soil conditions.

(3) *Hydrology*. The area is inundated either permanently or periodically at mean water depths ≤ 6.6 ft, or the soil is saturated to the surface at some time during the growing season of the prevalent vegetation, the average annual duration of inundation or soil saturation does not preclude the occurrence of plant species typically adapted for life in aerobic soil conditions.

For an area to be considered a wetland under ACOE guidelines, all three parameters (vegetation, soils, or hydrology, as defined by the ACOE) must be met. However, climatic and hydrologic conditions in the Arid West often make it difficult to identify wetland indicators. The 2008 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (Supplement) (ACOE, 2008) provides indicators for each parameter that are specific to the Arid West region and is used in conjunction with the Wetland Manual.

1.3.1.2. Waters of the U.S.

Waters are defined as:

- 1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- 2. All interstate waters including interstate wetlands;
- 3. All "other waters" such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
 - i. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - iii. Which are used or could be used for industrial purpose by industries in interstate commerce;
- 4. All impoundments of waters otherwise defined as waters of the United States under the definition;
- 5. Tributaries of waters identified in paragraphs [1-4] of this section;
- 6. The territorial seas;
- 7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs [1-6] of this section (ACOE, 1982).

As noted above, "other waters," including lakes, ponds, and streams, are subject to ACOE jurisdiction. "Other waters" are characterized by an ordinary high water (OHW) mark, which is defined as: "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the characteristics of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" (ACOE, 1982).

In the field, "other waters" are identified by the presence of a defined river or stream bed, a bank, and evidence of the flow of water.

1.3.1.3. U.S. Army Corps of Engineers Jurisdiction

On June 5, 2007, the ACOE and the EPA developed a Memorandum Regarding *Clean Water Act Jurisdiction Following Rapanos v. United States* which states that the agencies will assert jurisdiction over the following categories of water bodies:

- TNWs [traditional navigable waters] and wetlands adjacent to TNWs and
- Non-navigable tributaries of TNWs that are relatively permanent (i.e., the tributaries typically flow year-round or have continuous flow at least seasonally) and wetlands that directly abut such tributaries

In addition, the following waters will also be found jurisdictional based on a fact-specific analysis that they have a significant nexus with a TNW:

- Non-navigable tributaries that do not typically flow year-round or have continuous flow at least seasonally;
- Wetlands adjacent to such tributaries; and
- Wetlands adjacent to but that do not directly abut a relatively permanent nonnavigable tributary

A significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or an insubstantial effect on the chemical, physical, and/or biological integrity of a TNW. Principal considerations when evaluating significant nexus include the volume, duration, and frequency of the flow of water in the tributary and the proximity of the tributary to a TNW, plus the hydrologic, ecologic, and other functions performed by the tributary and all of its adjacent wetlands" (ACOE & EPA, 2007).

The term "navigable waters of the U.S." is defined to include:

"all those waters that are subject to the ebb and flow of the tide, and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce" (ACOE, 1982).

1.3.2. State Regulation

Although wetlands are typically under the jurisdiction of the ACOE, wetlands occurring within the coastal zone are regulated by the California Coastal Commission (CCC) under the California Coastal Act (CCA) of 1976 and the federal Coastal Zone Management Act (CZMA).

1.3.2.1. Coastal Wetlands

Section 30121 of the CCA broadly defines a wetland as:

"...lands within the coastal zone which may be covered periodically or permanently with shallow water and include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, or fens."

The California Code of Regulations Section 13577 (b)(1) of Title 14, Division 5.5, Article18, provides an expanded definition:

"...Wetlands are lands 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 or drastic fluctuations of surface water levels, wave action, water flow, turbidity or high concentrations of salt or other substance 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 deepwater habitats. ..."

The Federal procedures to identify indicators and evaluate whether a site meets any of the three parameters is typically used to delineate coastal wetlands. For this delineation, data was collected and procedures followed in conformance with the ACOE's Wetland Manual and the Supplement. The presence of one or more parameters (vegetation, soils, or hydrology, as defined by the ACOE) was used to delineate a wetland under CCC jurisdiction.

2. Methods

This wetland delineation was conducted in accordance with the requirements set forth in the Wetland Manual and Supplement, as appropriate, to identify indicators and evaluate whether a site meets any or all of the three parameters. Prior to conducting field surveys, available reference materials were reviewed, including the National Wetlands Inventory Wetland Mapper (Service, 2014), the Web Soil Survey for Monterey County (USDA, 1978), the list of Hydric Soils of the United States (USDA NRCS, 2014), the Soil Survey Geographic Database (USDA-NRCS, 2003), the Source Water Alternative Site Locations Maps prepared by DD&A in December, 2013, the Area of Potential Effect (APE) Maps prepared by DD&A in April 2014, and aerial photographs of the site.

In addition, the following existing report was evaluated in preparation of this wetland delineation report¹:

• Monterey Bay Regional Desalination Project Administrative Draft Delineation of Jurisdictional Wetlands and Waters under Section 404 of the Clean Water Act and California Coastal Act (DD&A 2011)

2.1. Field Methods

In July 2014, August 2014, and February 2015, DD&A biologists Matthew Johnson, Jami Davis, and Shaelyn Hession, conducted field surveys to confirm and update existing data from overlapping projects (identified above) and collect new data within areas of the evaluation area not previously evaluated. All data collected previously and not specific to this delineation was field checked to ensure site conditions had not changed. Field survey data were recorded on Wetland Determination Data Forms for the Arid West Region provided in the Supplement (Appendix A). Seventy-three (73) sampling points were taken within the evaluation areas. Each sampling point was mapped using a Trimble Pro XH GPS unit and a picture was taken of the area immediately surrounding the point. All points were subsequently displayed in GIS using ArcGIS software. Data collected at each sampling point was analyzed to determine if wetlands and/or waters were present. Vegetation, soils, and hydrology were assessed following the guidelines detailed in the Wetland Manual and Supplement. For an area to be considered a wetland under ACOE guidelines, all three parameters must be met.

For the El Estero Diversion site, data was collected only within the evaluation area, where direct impacts would occur. As noted above, the GWR Project would include improvements that would enable water that would otherwise be discharged to the beach to instead be conveyed to the Regional Treatment Plant to be recycled, and, therefore, will not result in indirect impacts to these resources as a result of water diversion. However, the location of wetlands and other waters within the adjacent Lake El Estero were mapped to show the location of these resources in relation to the GWR Project site. These resources were mapped using only aerial images, Google street view (Google, 2014), and personal knowledge of the resources.

2.1.1. Vegetation

Vegetation was categorized into four strata: tree, sapling/shrub, herb, and woody vines. Areas around sampling points were evaluated and vegetation plot sizes were selected to adequately describe the sample area. Dominant plant species, and their approximate percent cover within five to ten feet of the sampling point were recorded for sapling/shrub, herb, and woody vine layers, and within 10 feet for the tree layer.

¹ Existing data previously collected within the evaluation area were field checked and used for this report.

Plant species were identified using An Illustrated Field Key to the Flowering Plants of Monterey County (Matthews, 2006) and The Jepson Manual: Vascular Plants of California, Second Edition (Baldwin, et al., 2012), and were assigned a wetland status according to the *Arid West 2014 Regional Wetland Plant List* (Lichvar, et al., 2014). The wetland plant classification system is based on the expected frequency of occurrence in wetlands as described in Table 2-1.

Symbol	Indicator Category	Definition	Frequency of Occurrences
OBL	Obligate Wetland Plants	Always found in wetlands	>99%
FACW	Facultative Wetland Plants	Most often occur in wetlands	67-99%
FAC	Facultative Plants	Equal likelihood of occurring in wetlands and non-wetlands	33-67%
FACU	Facultative Upland Plants	Most often occur in non-wetlands	1-33%
UPL	Obligate Upland Plants	Always found in non-wetlands	<1%
NL	Not Listed (Assumed Upland)		

 Table 2-1: Wetland Vegetation Classification System

The "dominance test", as described in the Supplement, was applied for each survey point. If more than 50 percent of the dominant plant species across all strata were in the indicator categories of OBL, FACW, or FAC, then the vegetation was considered hydrophytic. The other indicators of hydrophytic vegetation described by the Supplement (Prevalence Index and Morphological Adaptations) were not used.

2.1.2. Soils

The National Technical Committee for Hydric Soils (NTCHS) defines a hydric soil as:

"A soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (USDA-NRCS, 1995).

The soil at each survey point was evaluated by digging an 18-inch hole, when possible, and identifying soil horizons, color, and texture, as well as any hydric soil indicators (as described in the Supplement). Soil color was evaluated by comparing a small wetted piece of soil to Munsell Soil Color Charts (Munsell, 2000). The ending value of the Munsell Soil Notation refers to the chroma of the sample. Measures of chroma consist of numbers beginning with 0 for neutral grays and increasing at equal intervals to a maximum of about 20.

2.1.3. Hydrology

The Wetland Manual defines "wetland hydrology" as:

"Encompassing all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time during the growing season. Areas with evident characteristics of wetland hydrology are those where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions, respectively. Such characteristics are usually present in areas that are inundated or have soils that are saturated to the surface for sufficient duration to develop hydric soils and support vegetation typically adapted for life in periodically anaerobic soil conditions."

Each survey point was evaluated for wetland hydrology using the indicators described in the Supplement. Evidence of one Primary Indicator sufficiently identified wetland hydrology. Two or more Secondary Indicators were necessary to identify wetland hydrology if no Primary Indicators were observed.

In the Arid West, the lack of a hydrologic indicator does not always signify the absence of wetland hydrology. As stated in the Supplement, the Arid West is characterized by extended dry seasons in most years and by extreme temporal and special variability in rainfall, causing many wetlands in the region to be dry for much of the year. During the extended dry season, hydrology indicators may be lacking altogether at a difficult or problematic site. Guidance is provided in the Supplement for difficult wetland situations such as this.

3. Description of Evaluation Areas

The GWR Project was evaluated for the presence of potentially coastal wetlands, federal jurisdictional wetlands, and other waters of the U.S. Six locations were identified as potentially being directly impacted:

- Reclamation Ditch Diversion
- Tembladero Slough Diversion
- Blanco Drain Diversion
- Locke Paddon Lake
- Roberts Lake
- Lake El Estero Diversion

In addition, reaches downstream of the Reclamation Ditch and Tembladero Diversion sites were also evaluated, as wetlands in these reaches have the potential to be indirectly impacted as a result of the water diversion during operation of the GWR Project. Reaches downstream of the Blanco Drain Diversion within the Salinas River were not evaluated, as the amount of water proposed for diversion is too small to have significant impacts to any downstream wetlands. For this evaluation, "Ditch" refers to the channel alignment downstream of the Reclamation Ditch Diversion to the tide gates at Potrero Road in Moss Landing, California and the Old Salinas River Lagoon. The Ditch includes portions of the Reclamation Ditch and Tembladero Slough, as well as the entire Old Salinas River Channel. The Ditch was identified as having the potential to be indirectly impacted.

No formal delineation was conducted at Lake El Estero outside of the proposed diversion structure site as the proposed project is not anticipated to have direct or indirect impacts on the water level in Lake El Estero. Similarly, no formal delineation was conducted in the riparian area along the Salinas River within the Salinas Treatment Facility project study area as there are no anticipated direct impacts to this area and indirect impact are expected to be less than significant as a result of the proposed project.

3.1. Reclamation Ditch Diversion

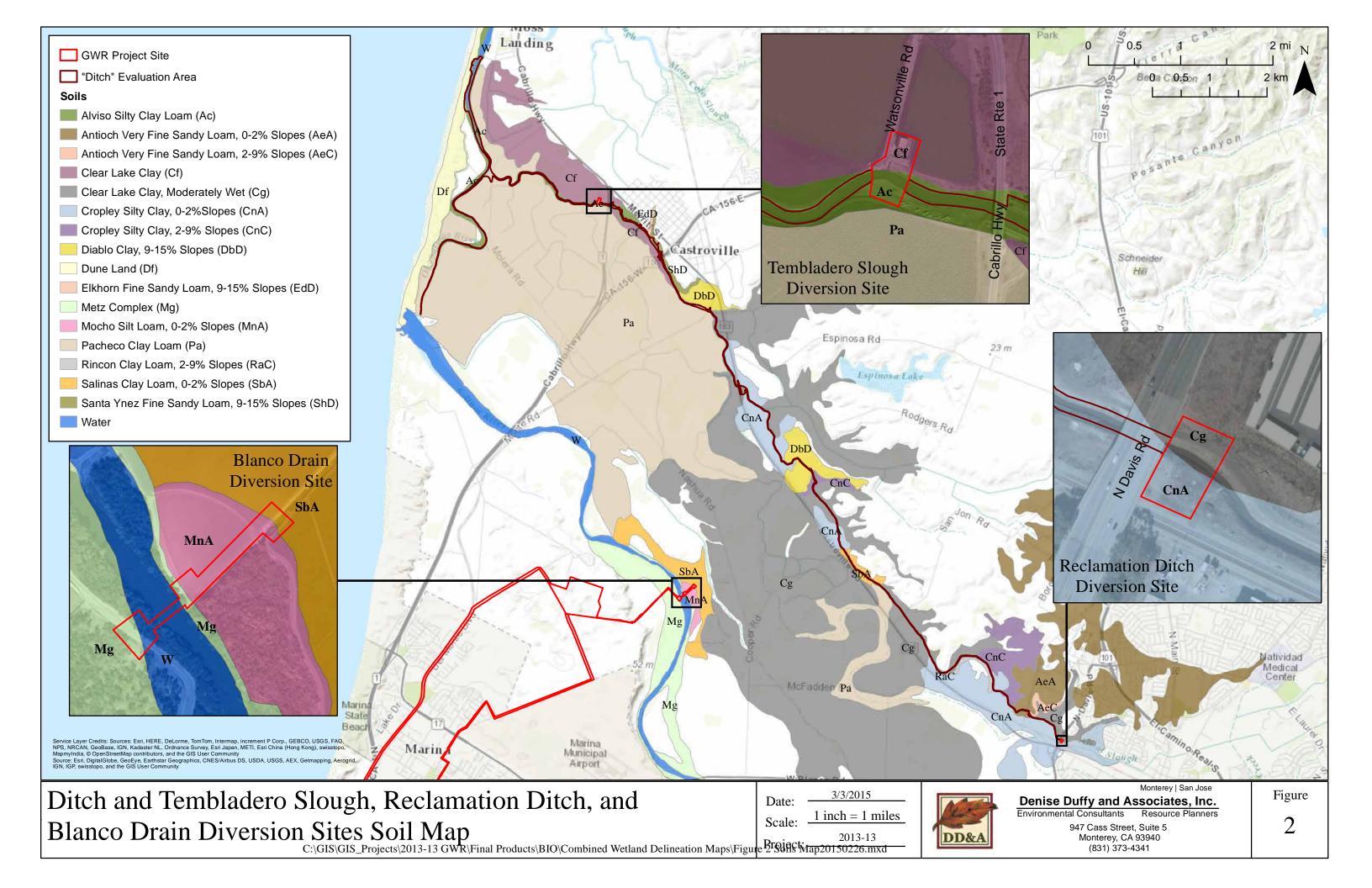
The Reclamation Ditch Diversion evaluation area is located along the Reclamation Ditch adjacent to Davis Road, near the City of Salinas (**Figure 1**). This evaluation area is surrounded by development and the area is highly disturbed and maintained. Within this evaluation area, one sampling point was taken. The evaluation area is not located within the coastal zone.

3.1.1. Vegetation

The vegetation within the evaluation area is highly disturbed. Approximately half of the area is denuded and the other half is covered by thatch. The species composition of the thatch was not identifiable at the time of the survey; however, due to the disturbed nature of the site, it is likely that non-native species dominate.

3.1.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies two map units within the Reclamation Ditch Diversion evaluation area (**Figure 2**). The SSURGO Database description of these units is provided below with an indication of whether the soil is classified as hydric or not on the USDA NRCS *Hydric Soils of the United States* list (2014).



Description of Evaluation Areas

Alviso Silty Clay Loam (Drained). This poorly drained soil is found in basins and on tidal flats, and was formed in alluvium derived from sedimentary rocks. In a representative profile, the surface layer is a gray, neutral silty clay loam approximately five inches thick. Below that, there is approximately nine inches of light gray, mildly alkaline silty clay loam which is underlain by approximately 31 inches of light gray to gray mildly alkaline silty clay. In areas where this soil is classified as "drained" the soil has been partially drained by structures such as levees, dikes, and gates used to control the inflow of tidewater. This soil is classified as a hydric soil for Monterey County.

Clear Lake Clay. This poorly-drained soil is found on flood plains and in basins, and was formed in alluvium derived from sedimentary rocks. In a representative profile, the top layer is an approximately 24-inch thick, dark gray, moderately alkaline clay. This soil is classified as hydric for Monterey County.

3.1.3. Hydrology

The Reclamation Ditch bisects the evaluation area. A detailed description of the hydrology associated with Reclamation Ditch is presented in Section 3.6.3.

3.2. Tembladero Slough Diversion

The Tembladero Slough Diversion evaluation area is located along the Tembladero Slough at Watsonville Road, west of Highway 1 near the City of Castroville (**Figure 1**). This evaluation area is surrounded by agriculture and the area is highly disturbed and maintained. Within this evaluation area, two sampling points were taken. The evaluation area is located within the coastal zone.

3.2.1. Vegetation

The vegetation within the evaluation area is highly disturbed. Approximately half of the area is denuded and the other half is covered by thatch. The species composition of the thatch was not identifiable at the time of the survey; however, due to the disturbed nature of the site, it is likely that non-native species dominate.

3.2.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies two map units within the Tembladero Slough Diversion evaluation area (**Figure 2**). The SSURGO Database description of these units is provided below with an indication of whether the soil is classified as hydric or not on the USDA NRCS *Hydric Soils of the United States* list (2014).

Clear Lake Clay (Moderately Wet). Please see soil description provided in Section 3.1.2 for Reclamation Ditch Diversion soils. In areas where this soil is identified as "moderately wet" the soil is presently partly drained, but it was poorly drained when it formed. This soil is classified as hydric for Monterey County.

Cropley Silty Clay, 0-2% Slopes. These well-drained soils are found on alluvial fans, floodplains, basins, terraces, and terrace breaks, and were formed in alluvium derived from sedimentary rocks. In a representative profile, the surface layer is an approximately 36-inch thick, very dark gray, moderately alkaline silty clay. This soil is classified as hydric for Monterey County.

3.2.3. Hydrology

The Tembladero Slough bisects the evaluation area. A detailed description of the hydrology associated with Tembladero Slough is presented in Section 3.6.3. Additionally, a small drainage ditch is present within the evaluation area that drains water from adjacent agricultural fields into the Tembladero Slough.

3.3. Blanco Drain Diversion

The Blanco Drain system, commonly referred to as Blanco Drain, drains the surrounding agriculture surface run-off and tile drainage. The adjacent agricultural lands are used for growing table crops (e.g., leafy greens, berries, and artichokes). Agricultural practices, including the use of herbicides and pesticides, as well as fertilization, have contributed to the degraded hydrology associated with Blanco Drain. Following the installation of the Salinas River Diversion Facility (SRDF), approximately 1,000 feet downstream from Blanco Drain, culverts and flap gates were installed to prevent the Salinas River from back-filling Blanco Drain. The installation of the culverts and flap gates also prevented fish passage in Blanco Drain. The Blanco Drain Diversion evaluation area is approximately 3.7 acres, consisting of a 176 foot-long agricultural drainage ditch and approximately 52 linear feet of the Salinas River main channel and associated riparian habitat (**Figure 1**). Within this evaluation area, four sampling points were taken. Sampling points were taken in the drainage ditch, in sections of the Salinas River riparian corridor, and within a segment of degraded, historic riparian habitat located within the historic floodplain on the southern side of the Salinas River. An additional point (point 14) was taken near the evaluation area; however, after importing the GIS data, it was determined that this point is located outside of the evaluation area is not located within the coastal zone.

3.3.1. Vegetation

The bank of the drainage ditch adjacent to agricultural fields is unvegetated. In the riparian corridor, vegetation cover includes a tree stratum dominated by arroyo willow, as well as herb stratum dominated by species including white sweetclover (*Melilotus albus*), rabbitfoot grass (*Polypogon monspeliensis*), and telegraph weed (*Heterotheca grandflora*). The vegetation in the degraded historic riparian habitat located on the historic floodplain on the southern side of the Salinas River and is significantly disturbed and dominated by a dead stand of poison hemlock (*Conium maculatum*).

3.3.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies three map units within the Blanco Drain Diversion evaluation area (**Figure 2**). The SSURGO Database description of these units is provided below with an indication of whether the soil is classified as hydric or not on the USDA NRCS *Hydric Soils of the United States* list (2014).

Salinas Clay Loam, 0-2% Slopes. This well-drained soil is found on low terraces and was formed in mixed alluvium derived from sedimentary and granitic rocks. In a representative profile, the surface layer is clay loam, silty clay loam, heavy loam, or heavy silt loam, approximately 33 inches thick, very dark gray, and dark gray. This soil type is classified as hydric for Monterey County.

Mocho Silt Loam, 0-2% Slopes. This well-drained soil is found on floodplains and was formed in alluvium derived mostly from sedimentary rocks. In a representative profile, the surface is layer an approximately 12-inch thick, grayish brown, calcareous silt loam. The subsoil is a light brownish gray, calcareous silty clay loam and silt loam, which extends to a depth of 68 inches or more. This soil is classified as hydric for Monterey County.

Metz Complex. This somewhat excessively drained soil is found largely along drainage ways and on modified sand dunes, and was formed in alluvium derived mostly from sedimentary rocks. The texture of the surface layer is variable, as this complex consists of undulating to gently rolling soils that are intermingled. In a representative profile, the surface layer is approximately 12 inches thick. The texture of the surface layer can include sand, loamy sand, silt loam, and sandy loam that is gravelly or cobbly in areas. The subsoil material extends to a depth of more than 60 inches; it is light brownish gray, moderately alkaline, stratified fine sand, sand, and very sandy loam. This soil is not classified as hydric for Monterey County.

3.3.3. Hydrology

In 2009-2010, the MCWRA SRDF was constructed downstream of the Blanco Drain. The SRDF includes an inflatable rubber dam that impounds water during the summer months to supply the diversion pump station. To overcome the backwater into the Blanco Drain channel, the channel was re-graded and a pump station was installed at the lower end. The pump station lifts Blanco Drain flows past a slide gate and into the gravity portion of the channel. The Blanco Drain watershed is approximately 6,000 acres and collects surface runoff and agricultural tile-drain flows from the surrounding area. The Blanco Drain is tributary to the Salinas River.

In this evaluation area, hydrology is confined to a stretch of agricultural drainage ditch approximately 176 feet long with a width ranging from 23 to 30 feet, and a section of the main channel of the Salinas River approximately 50 feet long and 150 feet wide.

3.4. Locke Paddon Lake

The GWR Project alignment runs along the eastern border of Locke Paddon Lake, which is located within the City of Marina near the intersection of Del Monte Boulevard and Reservation Road (**Figure 1**). Eight sampling points were taken within the Locke Paddon Lake evaluation area. This evaluation area is located within the coastal zone.

3.4.1. Vegetation

Vegetation at the top of the slope, immediately adjacent to the railroad tracks, is maintained and highly disturbed. Dominant vegetation consists of non-native annual grasses, such as slender oat (*Avena barbata*), and iceplant (*Carpobrotus edulis*). The slope down to the lake is dominated by California blackberry (*Rubus ursinus*) and stinging nettle (*Urtica dioica*). As the topography flattens out, cattail (*Typha latifolia*) and Arroyo willow dominate the vegetation overall, although in some areas, California blackberry and common rush (*Juncus effusus*) are also dominants.

3.4.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies one map unit within the Locke Paddon Lake evaluation area at Marina Greens Drive (**Figure 3**). The SSURGO Database description of this mapping unit is presented below with an indication of whether the soil is classified as hydric or not on the USDA NRCS *Hydric Soils of the United States* list (2014).

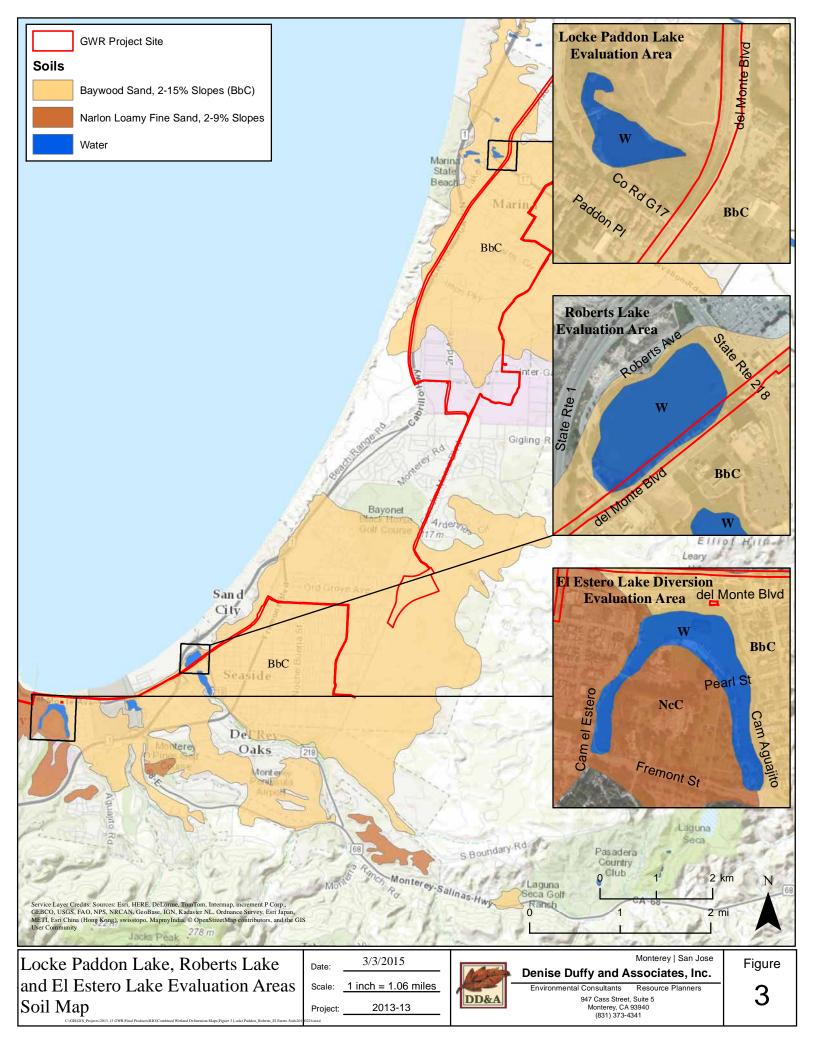
Baywood Sand, 2-15% Slopes. This somewhat excessively drained soil was formed in stabilized sand dunes. In a representative profile of this soil, the surface layer is approximately 21 inches thick, grayish brown and brown, slightly acidic and medium acid sand. Baywood sand is not classified as a hydric soil.

3.4.3. Hydrology

Lock Paddon Lake is a large vernal pond which is fed primarily by rainfall runoff. The lake is located within the Monterey Peninsula watershed.

3.5. Roberts Lake

The GWR Project alignment runs along the south-eastern border of Roberts Lake, which is located within the City of Seaside near the intersection of Del Monte Boulevard and Canyon Del Rey Boulevard (**Figure 1**). Within the Roberts Lake evaluation area, 10 sampling points were taken. This area is within the coastal zone.



3.5.1. Vegetation

Vegetation immediately adjacent to the railroad tracks is highly disturbed and maintained by mowing and several areas are completely devoid of vegetation. Dominant species within this area were ruderal, non-native species, including cheeseweed (*Malva parviflora*), ripgut brome (*Bromus diandrus*), fescue grass (*Vulpia* sp.), and black mustard. Closer to the water, dominant species included Arroyo willow, California blackberry, Indian melilot (*Melilotus indicus*), rabbitfoot grass, spearscale (*Atriplex triangularis*), and hardstem bulrush (*Schoenoplectus acutus*).

3.5.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies one map unit within this evaluation area (Figure 3).

Baywood Sand 2-15% Slopes. Please refer to the description of this soil type in Section 3.3.2 for Locke Paddon Lake soils.

3.5.3. Hydrology

Roberts Lake is a perennial lagoon in which the outflow into the Monterey Bay is regulated by a water level control structure that maintains a fairly constant surface water elevation (Monterey Peninsula Water Management District, 2005). The lagoon is the terminus of a system that drains the Highway 68 corridor from Laguna Seca west to Canyon Del Rey Boulevard and portions of the City of Seaside. Several ephemeral drainages connect with a drainage channel that nearly parallels Highway 68 and Canyon Del Rey Boulevard before emptying into Laguna Del Rey Lake, which is connected directly with Roberts Lake under Del Monte Boulevard. The lake is located within the Monterey Peninsula watershed.

3.6. Lake El Estero Diversion

The Lake El Estero Diversion evaluation area is located at the northwest corner of El Estero Park near Del Monte Blvd in the City of Monterey. El Estero Park is a 45-acre multi-use recreation area, which includes walking trails, BBQ picnic areas, paddleboat rentals, an exercise course, restrooms, the Dennis the Menace Playground, a dog park, a skate park, and a ball park. The evaluation area is located within the cement pad of an existing pump station. Lake El Estero is located immediately adjacent to the evaluation area. Within the Lake El Estero Diversion evaluation area, one sampling point was taken. Additional points were not taken surrounding the lake as the project will not result in any direct impacts or indirect impacts from water diversion; however in order to show the location of resources at the lake, mapping was conducted using aerial images, Google street view images (Google, 2014), and personal knowledge of the area. This evaluation area is not located within the coastal zone.

3.6.1. Vegetation

The Lake El Estero Diversion evaluation area is completely devoid of vegetation and is located entirely within an existing cement pad. The surrounding area within El Estero Park is dominated by maintained turf and landscaping. Small areas of emergent bulrush (*Schoenoplectus* sp.) are present along the edge of the lake in some areas; however, these areas are not adjacent to the evaluation area.

3.6.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies one map unit within this evaluation area (Figure 3).

Baywood Sand 2-15% Slopes. Please refer to the description of this soil type in Section 3.3.2 for Locke Paddon Lake soils.

Although not present within the Lake El Estero Diversion evaluation area, one additional soil type is present within El Estero Park, surrounding the lake:

Narlon Loamy Fine Sand, 2-9% Slopes. These soils are a gently to moderately sloping soil on dissected marine terraces. In a representative profile, the surface layer is a gray, medium acidic, loamy, fine sand about three inches thick. The subsurface layer is a white, mottled, slightly to medium acidic, loamy, fine sand approximately 10 inches thick. The subsoil is an approximately 40-inch thick light brownish gray to light gray, mottled, very strongly acidic clay. This soil is classified as hydric for Monterey County.

3.6.3. Hydrology

The following information was taken directly from the internal draft report *Groundwater Replenishment Project Urban Runoff Capture at Lake El Estero* prepared by Schaaf & Wheeler Consulting Civil Engineers (Schaaf & Wheeler) in April 2014:

Lake El Estero is an 18-acre lake located in the City of Monterey, less than one mile from the coast. It is fed by four tributary streams and a portion of the City's stormwater collection system. One tributary is a named stream (Majors Creek which runs through Dahvee Park), and the other three are unnamed streams. The Lake El Estero drainage basin is 2,418 acres, or approximately 3.78 square miles.

Lake El Estero was originally a brackish lagoon, connected by a surface stream to the Monterey Bay. The connection to the bay was changed to pipe culverts in the 1870s when the Monterey and Salinas Valley Railroad was constructed. Lake El Estero has been dredged several times during the last century to remove accumulated sediment. Until 1941, the drainage basin included 1,186-acres to the west, extending to Huckleberry Hill, which entered the Lake through a box culvert under Pearl Street. This portion of the City stormwater system was reconfigured with the addition of a box culvert under Figueroa Street, which now carries the flow from Pearl Street to discharge into the Monterey Bay at the Municipal Wharf. In 1968, the current stormwater pump station at the northeast corner of the lake and outfall pipeline were constructed to facilitate better management of water levels in the Lake El Estero.

3.7. Ditch

The Ditch is a highly degraded system that carries water primarily from urban and agricultural runoff, but also from tributaries that drain the northwestern slopes of the Gabilan Range. The Reclamation Ditch portion of the Ditch is a trapezoidal channel that was excavated between 1917 and 1920 to drain surface runoff, including several old lakes (Casagrande and Watson 2006). Within the urban areas of the City of Salinas, the Ditch has steep sides with numerous pipe culverts or bridges with lined inverts. The Tembladero Slough and Old Salinas River portions of the Ditch are natural features; however, they have also been highly manipulated and are similarly a trapezoidal channel with steep sides in most areas. Several portions of the Ditch have been armored with rip-rap to prevent erosion and vegetation has been removed to prevent flooding and minimize habitat for wildlife that may disturb the adjacent agricultural fields. The Ditch has been separated from the floodplain in all areas except for the stretch extending approximately 3,200 feet upstream of the tide gate at Potrero Road. A man-made wetland, designed for water treatment, abuts the Tembladero Slough and the Old Salinas River Channel, at the confluence of these waterways, and was included in the evaluation area (**Figure 1**). Within the Ditch evaluation area, 47 sampling points were taken. A portion of this evaluation area is located within the coastal zone.

3.7.1. Vegetation

The majority of the Ditch is surrounded by agricultural and urban areas, and consequently the vegetation within the evaluation area is highly degraded. The vegetation growing within the Ditch and along the banks is typically removed by use of herbicides, which enhances drainage flow and minimizes habitat for pest species adjacent to cropland (Casagrande and Watson 2006). Additionally, several areas of the Ditch

are armored by rip-rap to prevent erosion, which also precludes the growth of much vegetation. In areas where the vegetation hasn't been removed, weedy species are typically dominant, such as watercress (*Nasturtium officinale*), saltbush (*Atriplex* sp.), bristly ox-tongue (*Picris echioides*), poison hemlock (*Conium maculatum*), black mustard (*Brassica nigra*), and wild radish (*Raphanus sativus*).

Although the majority of the Ditch is disturbed and degraded, some areas of native vegetation are still present. A few small areas of arroyo willow (*Salix lasiolepis*) are present along the Ditch. The floodplain adjacent to the lower reach of the Ditch, which extends from the tide gates at Potrero Road to approximately 3,200 feet upstream, is dominated by salt marsh. The floodplain extends from the bank of the channel to the toe of slope of the adjacent sand dunes and dune scrub habitat on the west side and to the toe of slope of the adjacent agricultural fields on the east side. The salt marsh is dominated by fleshy jaumea (*Jaumea carnosa*), alkali heath (*Frankenia salina*), gum-plant (*Grindelia stricta*), salt grass (*Distichlis spicata*), pacific silver-weed (*Potentilla anserina ssp. pacifica*), and pickleweed (*Salicornia pacifica*). Another area where significant native vegetation is present is at the man-made wetland where California bulrush (*Schoenoplectus californica*), alkali heath, fleshy jaumea, and salt grass are the dominant species. Native vegetation, consisting of species including Californiabulrush and fleshy jaumea, is also present along the Old Salinas River Channel upstream of the confluence with the Tembladero Slough.

3.7.2. Soils

The SSURGO Database (USDA-NRCS, 2003) identifies 16 map units within the Ditch evaluation area (**Figure 2**). The SSURGO Database description of these units is provided below with an indication of whether the soil is classified as hydric or not on the USDA NRCS *Hydric Soils of the United States* list (2014).

Alviso Silty Clay Loam (Drained). Please see soil description provided in Section 3.1.2 for Reclamation Ditch Diversion soils.

Antioch Very Fine Sandy Loam, 0-2% Slopes and 2-9% Slopes. These moderately well-drained soils, found on terraces and alluvial fans, were formed in alluvium derived from sedimentary rocks. In a representative profile, the surface layer is an approximately 15-inch thick, grayish-brown, strongly acid very fine sandy loam. The subsurface layer is an approximately six-inch thick, light gray, slightly acid, very fine sandy loam. These soils are not classified as hydric for Monterey County.

Clear Lake Clay (Moderately Wet). Please see soil description provided in Section 3.1.2 for Reclamation Ditch Diversion soils and Section 3.2.2 for Tembladero Slough soils.

Cropley Silty Clay, 0-2% Slopes and 2-9% Slopes. Please see soil description provided in Section 3.2.2 for Tembladero Slough soils. The soils on 0-2% slopes are classified as hydric for Monterey County; however, the soils on 2-9% slopes are not.

Diablo Clay, 9-15% Slopes. This well-drained soil is found in uplands and was formed in material underlain by calcareous sandstone and shale. In a representative profile, the surface layer is an approximately 30-inch thick, dark gray to very dark gray, slightly acidic, and neutral clay. This soil is not classified as hydric for Monterey County.

Dune Land. This soil is comprised of loose wind-deposited quartz and feldspar sand. It is found on gently sloping to steep areas of hummocks, mounds, and hills. This soil is classified as hydric for Monterey County.

Elkhorn Fine Sandy Loam, 2-5% Slopes and 9-15% Slopes. These well-drained soils are found on dune like marine terraces and on benches that have smooth, undulating slopes, and were formed in material underlain by weakly consolidated sandy sediments or ferruginous sandstone. In a representative profile, the top layer is an approximately 20- to 35-inch thick, gray or grayish brown, medium acid fine sandy loam. The soils on 2-5% slopes are classified as hydric for Monterey County; however, the soils on 9-15% slopes are not.

Pacheco Clay Loam. This poorly drained soil is found on nearly level floodplains and was formed in alluvium derived from sedimentary rocks. In a representative profile, the surface layer is an approximately 22-inch thick, dark gray, slightly acidic, and mildly alkaline clay loam. Pacheco clay loam is classified as hydric for Monterey County.

Rincon Clay Loam, 2-9% Slopes. This well-drained soil is found on alluvial fans and terraces, and was formed in alluvium derived from sandstone and shale. In a representative profile, the top layer is an approximately 14-inch thick, dark grayish brown, slightly acid clay loam. The surface layer can also consist of silty clay loam or sandy clay loam. The subsoil layer is an approximately 35-inch thick, dark grayish brown, neutral to moderately alkaline clay and heavy clay loam. This soil is not classified as hydric for Monterey County.

Salinas Clay Loam, 0-2% Slopes. Please see soil description provided in Section 3.3.2 for Blanco Drain soils.

Santa Ynez Fine Sandy Loam, 9-15% Slopes. This moderately well-drained soil is found on terraces and low hills, and was formed in alluvium derived from sandstone and granitic rock. In a representative profile, the top layer is an approximately 16- to 32-inch thick, grayish brown and gray, medium acid fine sandy loam. The subsurface layer is an approximately two-inch thick, light brownish gray, medium acid fine sandy loam. The subsoil layer is an approximately 25-inch thick, gray and grayish brown, medium acid to mildly alkaline clay and clay loam. This soil is not classified as hydric for Monterey County.

3.7.3. Hydrology

The Ditch is located in the Lower Salinas Valley Watershed and consists of the connected portions of the Reclamation Ditch, Tembladero Slough, and the Old Salinas River downstream of the Reclamation Ditch Diversion (approximately 12 miles total). The Reclamation Ditch is a drainage channel that flows westward from Carr Lake through the City of Salinas and the Salinas Valley and drains into Tembladero Slough, then the Old Salinas River Channel, and ultimately into Moss Landing Harbor through the tide gates at Potrero Road in Moss Landing. The tide gates are the downstream most control structure on the system. When the gates close during periods of high tide, water impounds behind the gates increasing the water surface elevations in the Old Salinas River Channel and the lower portion of the Tembladero Slough. When the tide gates open and water is allowed to flow into Elkhorn Slough the water surface elevation decreases. The effects of the tide and the tide gates dampen with distance from the gates. The majority of the water in the Ditch is from agricultural and urban runoff; however, some of the hydrology also originates from tributaries that drain the northwestern slopes of the Gabilan Range upstream of Carr Lake and Alisal Slough flows directly into the Ditch at the Tembladero Slough. Additionally, during the summer months, the Salinas River flows into the Old Salinas River Channel through a gated culvert at the Salinas Lagoon. Direct discharge from the Salinas River to the ocean is blocked by a seasonal sand bar which forms across the mouth of the Salinas Lagoon. During high winter flows in the Salinas River, the sand bar breaches and the river flows directly to the Bay. When the sand bar is breached, Monterey County Water Resources Agency (MCWRA) closes the slide gate to the Old Salinas River Channel.

A man-made wetland exists on the southern bank of the Tembladero Slough between the confluence of the Old Salinas River Channel and Molera Road. In this area, water is pumped from the Tembladero

Slough and deposited into the man-made wetland. The presence of wetland indicators at this location may be dependent upon the man-induced hydrology.

4. Results

4.1. Reclamation Ditch Diversion

4.1.1. Vegetation

No wetland vegetation was observed within the Reclamation Ditch Diversion evaluation area. The evaluation was approximately 50% denuded and the remaining 50% was covered by unidentifiable thatch.

4.1.2. Soils

No hydric soil indicators were present within the Reclamation Ditch Diversion evaluation area.

4.1.3. Hydrology

Hydrologic indicators were not observed at the sampling point (16) within the Reclamation Ditch evaluation area. However, approximately 115 feet of the Reclamation Ditch runs through this evaluation area. At this location, the Reclamation Ditch is approximately 15 to 17 feet wide (**Figure 4**).

4.2. Tembladero Slough Diversion

4.2.1. Vegetation

No wetland vegetation was observed within the Tembladero Slough Diversion evaluation area. The evaluation area was very sparsely vegetated spearscale and two other unidentifiable species.

4.2.2. Soils

No hydric soil indicators were present within the Tembladero Slough Diversion evaluation area.

4.2.3. Hydrology

The surface soil cracks hydrologic indicator was observed at one sampling point (9) within the Tembladero Slough evaluation area (**Figure 5**). Approximately 196 feet of the Tembladero Slough runs through this evaluation area. At this location, the Tembladero Slough is approximately 41 to 46 feet wide. Additionally approximately 50 feet of an agricultural drainage ditch connects with the Tembladero Slough within the evaluation area (**Figure 5**). At this location the drainage ditch is approximately 10 feet wide.

4.3. Blanco Drain Diversion

4.3.1. Vegetation

No wetland vegetation was observed within the Blanco Drain Diversion evaluation area. Although Arroyo willow (FAC) dominated the tree stratum at two of the sampling points, vegetation within the herb stratum was dominated by upland species and the sampling points did not pass the dominance test.

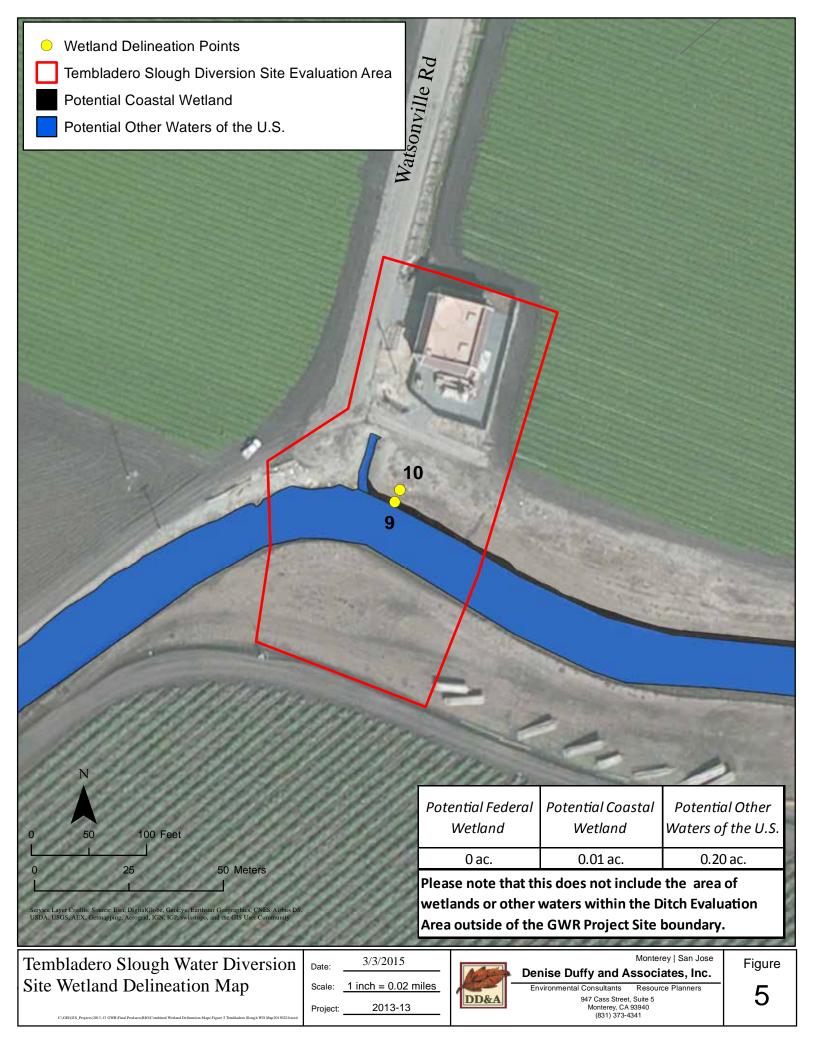
4.3.2. Soils

No hydric soil indicators were present within the Blanco Drain Diversion evaluation area.

4.3.3. Hydrology

Hydrologic indicators were observed at three sampling points within the Blanco Drain Diversion evaluation area. Riverine sediment deposits, riverine drift deposits, and drainage patterns were observed at sampling points 12 and 13, which were located just above OHW of the Salinas River main channel

Figure 4. Reclamation Ditch Diversion Wetland Delineation Map



(Figure 6). Additionally, although a sampling point was not taken below OHW; surface water was observed within the Salinas River main channel.

4.4. Locke Paddon Lake

4.4.1. Vegetation

Hydrophytic vegetation was observed at six sampling points within the Locke Paddon Lake evaluation area. Arroyo willow (FACW) dominated the tree stratum with an understory dominated by California blackberry (FAC), Santa Barbara sedge (*Carex barbarae* FACW), common rush (*Juncus effusus* OBL), and cattail (OBL).

4.4.2. Soils

Within the evaluation area the soils are completely sand, with the exception of the area at the southern end of the alignment. In this area, a woodchip fill has created sandy loam and loamy soils. The depleted matrix and sandy redox indicators were identified at three sampling points (37, 38, and 40) (**Figure 7**).

4.4.3. Hydrology

Within the evaluation area, indicators of wetland hydrology included saturation, presence of oxidized rhizospheres, and water-stained leaves. Additionally, presence of soil moisture (during the dry season) and topography were used as indicators of wetland hydrology at one sampling point (38) (**Figure 7**).

4.5. Roberts Lake

4.5.1. Vegetation

Hydrophytic vegetation was observed at six sampling points within the Roberts Lake evaluation area. Dominant species included Arroyo willow (FACW), bulrush (OBL), California blackberry (FAC), rabbitfoot grass (FACW), and Pacific silver-weed (OBL).

4.5.2. Soils

Within the evaluation area soils were either a sandy loam or a sandy silt fill with rock. The depleted matrix indicator was exhibited at four sampling points (48, 50, 52, and 53) and the gleyed matrix was exhibited at two sampling points (44 and 46) (**Figure 8**).

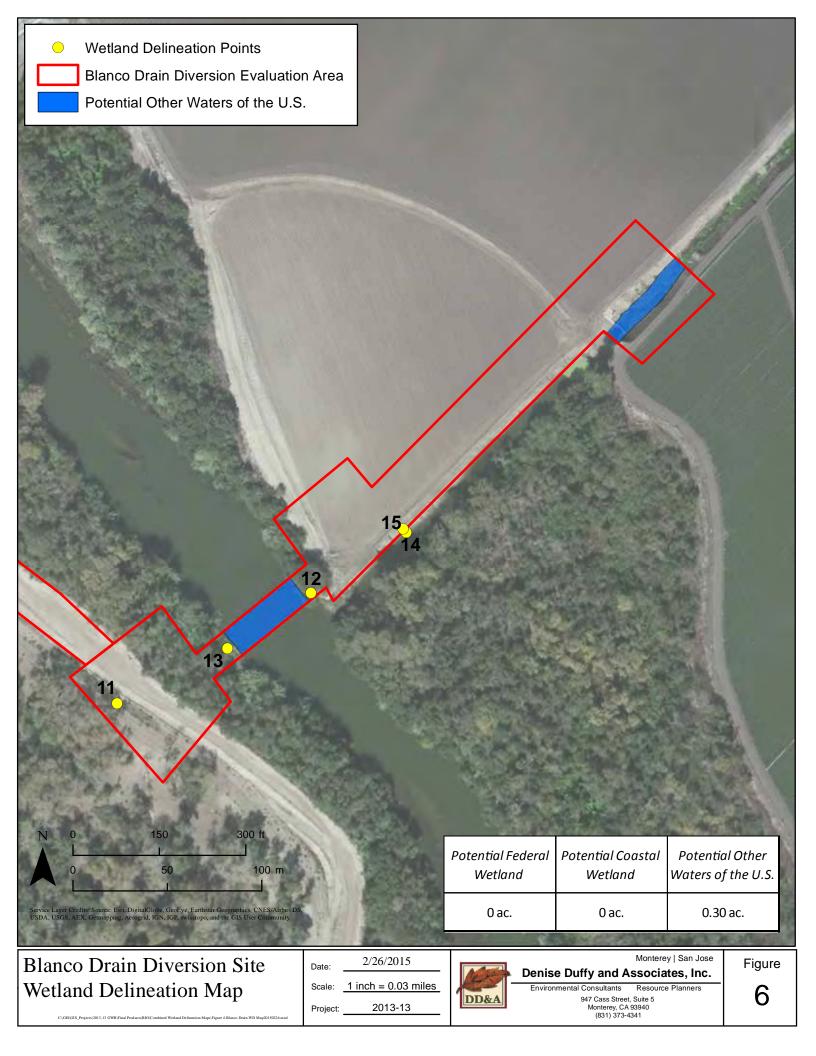
4.5.3. Hydrology

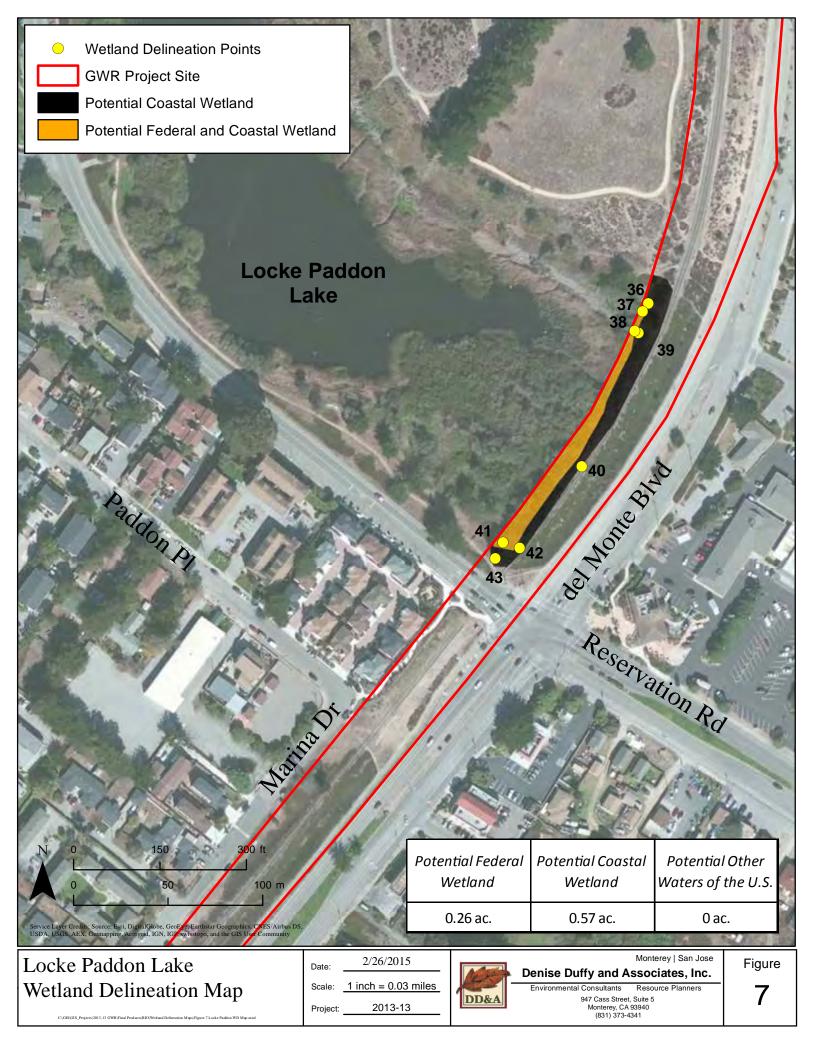
Within the evaluation area, hydrologic indicators included saturation at two sampling points (44 and 46) and a high water table at one point (44) (**Figure 8**). Additionally, presence of soil moisture (during the dry season) and topography were used as indicators of wetland hydrology for four sampling points (48, 50, 52, and 53).

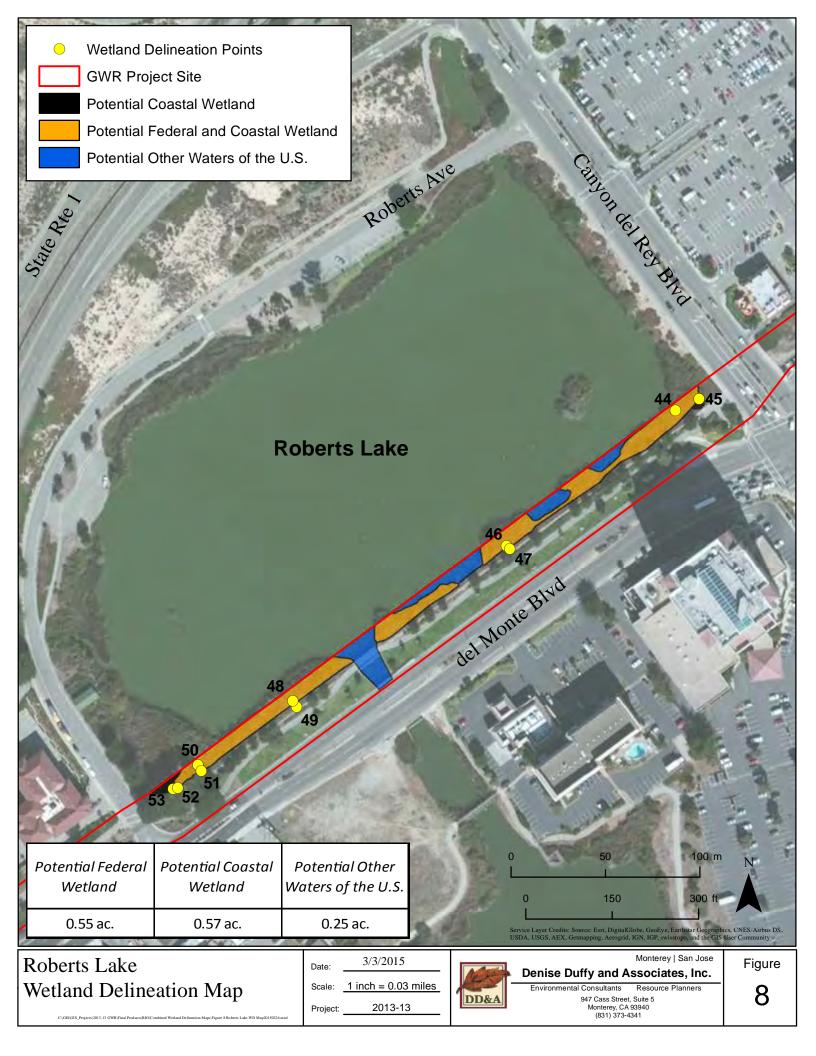
4.6. Lake El Estero Diversion

4.6.1. Vegetation

No vegetation is present within the Lake El Estero Diversion evaluation area. Outside of the evaluation area within the lake, small areas of bulrush (OBL) are present at the edge of the lake. The remainder of vegetation at El Estero Park is dominated by turf and landscaping.







4.6.2. Soils

A soil pit was not dug within the Lake El Estero Diversion evaluation area, as the substrate is a cement pad.

4.6.3. Hydrology

The Lake El Estero Diversion evaluation area is located in the upland adjacent to Lake El Estero. No hydrologic indicators are present within the evaluation area. Surface water within the lake is visible on aerials, which was utilized to identify hydrology adjacent to the evaluation area (**Figure 9**).

4.7. Ditch

4.7.1. Vegetation

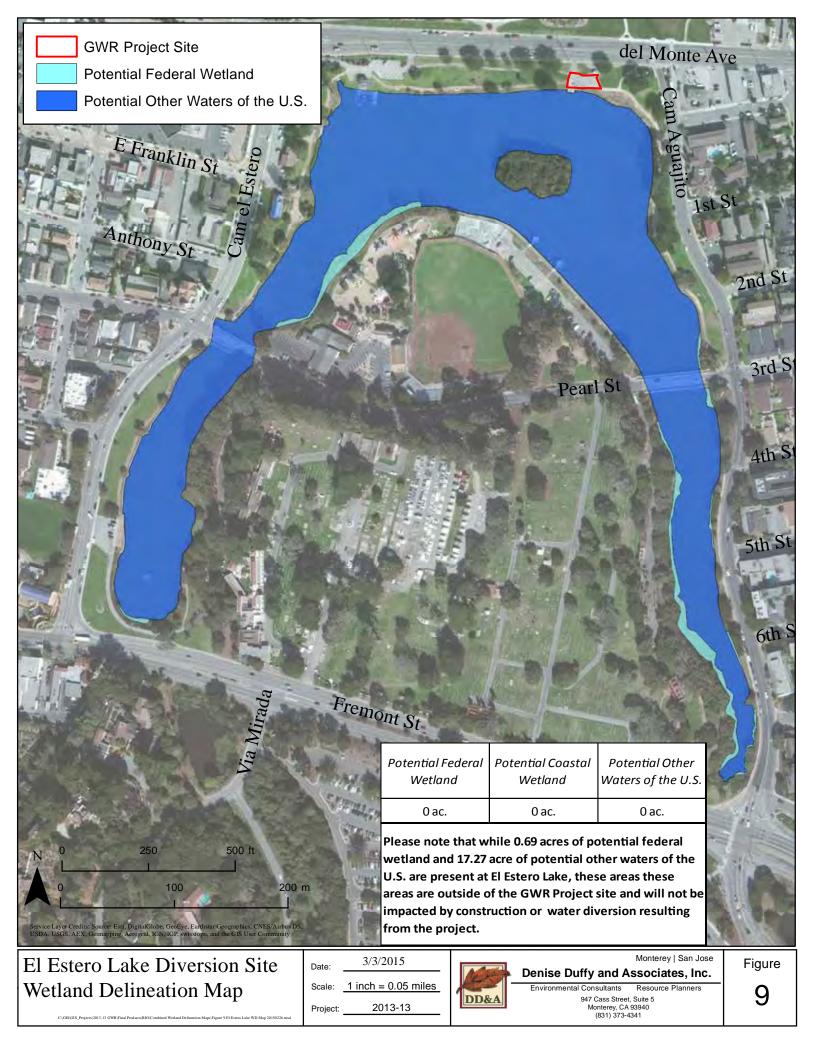
Vegetation within most of the Ditch evaluation area is significantly disturbed. As such, this delineation focused primarily on areas where potential wetland vegetation was present. Wetland vegetation was observed at 47 sampling points within the Ditch evaluation area. Sampling points 20, 23, 32, and 34 are located near where roads pass over the Ditch (Figures 10a and 10b). At these sampling points wetland vegetation consisted of a mix of native species, such as watercress (OBL), swamp knotweed (Polygonum amphibium var. emersum OBL), willow-herb (Epilobium ciliatum FACW), and salt heliotrope (Heliotropium curassavicum OBL); and non-native species, such as curly dock (Rumex crispus FACW), rabbitfoot grass (FACW), and poison hemlock (FACW). Sampling point 30 located just west of Highway 183, and sampling point 31 located just west of Boronda Road, are dominated by Arroyo willow (FAC) (Figures 10a and 10b). Sampling points 24, 25, 60, and 68-72 are located within the man-made wetland near Molera Road (Figure 10a). Dominant species present in the man-made wetland include alkali heath (OBL), fleshy jaumea (OBL), salt grass (FAC), and California bulrush (OBL). Sampling points 3, 4, 5, 8, 27, and 28 are located within the salt marsh area just upstream of the tide gates at Potrero Road (Figure 10a). Dominant species within the salt marsh included fleshy jaumea (OBL), alkali heath (OBL), gumplant (FACW), salt grass (FAC), pacific silver-weed (OBL), and pickleweed (OBL). Sampling points 54-60 are located along the Old Salinas River Channel, upstream of the confluence with Tembladero Slough (Figure 10a). At these sampling points dominant species present included bulrush (OBL), pacific silverweed (OBL), mule fat (Baccharis salicifolia FAC), fleshy jaumea (OBL), and spearscale (FAC). The remaining sampling points taken at the Ditch were either unvegetated (five points) or dominated by nonnative upland species (eight points) or coastal dune scrub species (two points).

4.7.2. Soils

Hydric soil indicators were observed at 17 sampling points within the Ditch evaluation area. Indicators observed included loamy gleyed matrix (points 3, 8, 33, 35, 61, and 72), sandy redox (point 4), 1 cm muck (point 5), depleted matrix (points 5, 34, 55, 64, 68, and 69), of redox dark surface (points 21 and 25), and depleted dark surface (point 28) (**Figures 10a and 10b**).

4.7.3. Hydrology

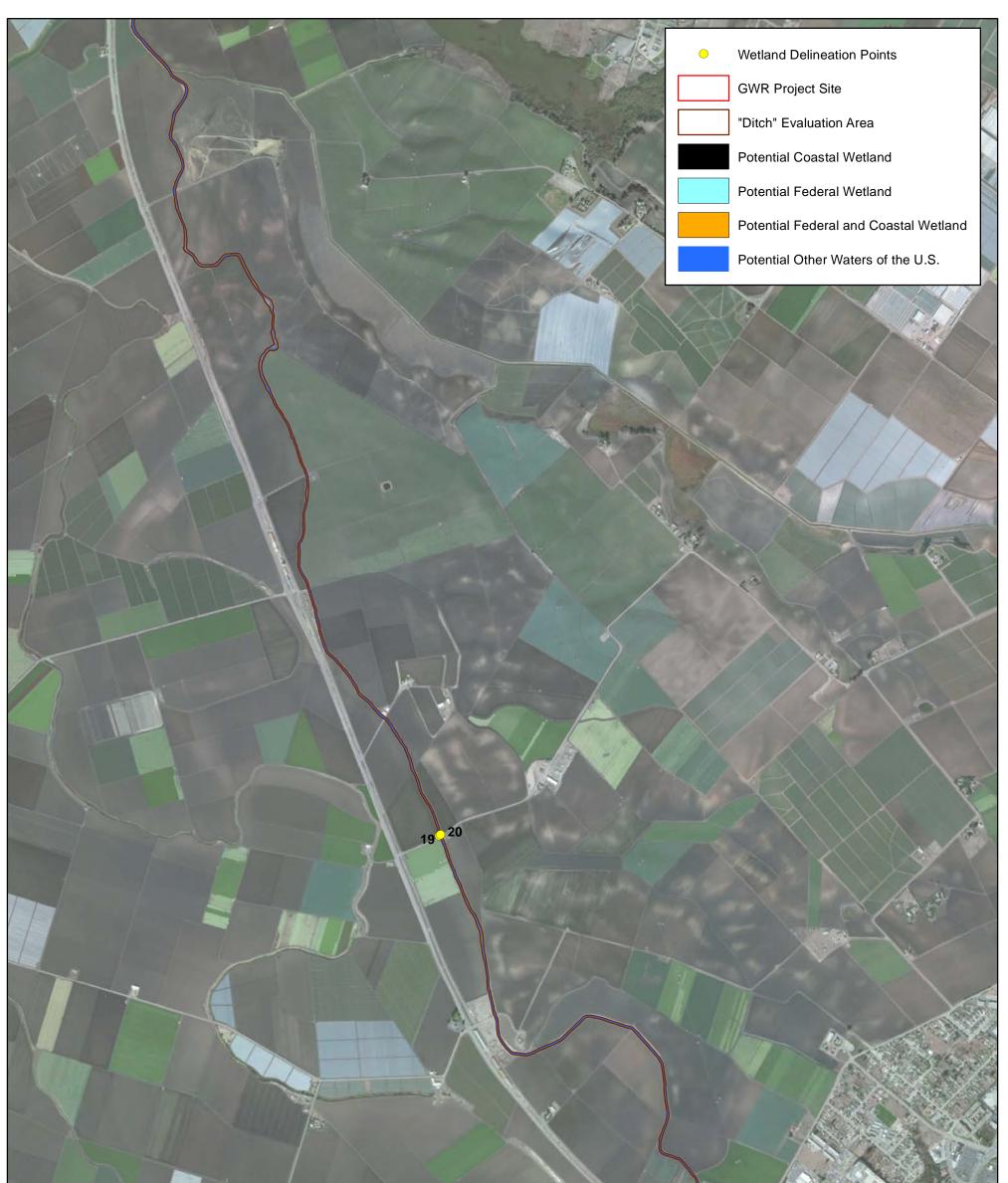
Hydrologic indicators were observed at 25 of the sampling points within the Ditch evaluation area. Primary indicators were observed at 12 sampling points (5, 25, 33, 35, 55, 57, 58, 59, 61-64, 67-69, 72) (**Figures 10a**). The primary indicators observed included surface water, high water table, saturation, oxidized rhizospheres along living roots, presence of reduced iron, and soil surface cracks. Two or more secondary indicators were observed at eight sampling points (3, 4, 8, 18, 20, 21, 23, 28, 57-59, and 65) (**Figures 10a and 10b**). The secondary indicators observe included riverine water marks, riverine drift deposits, and drainage patterns.



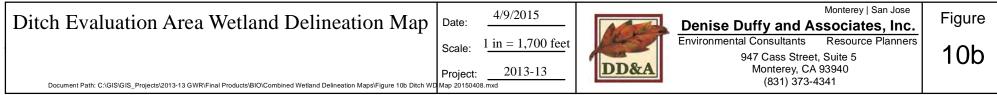


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14.41 ac. 18.37 ac.	51.15 ac.		X		
ease note that this does not includ etlands or other waters within the pundary (diversion sites) that over valuation Area.	GWR Project Site	K	X	2rs	1

		4/8/2015	and the second se	Monterey San Jose	Elaura
Ditch Evaluation Area Wetland Delineation Map	Date:		A	Denise Duffy and Associates, Inc.	Figure
	Scale:	1 in = 1,700 feet		Environmental Consultants Resource Planners	4.0
	Ocale.		DDCA	947 Cass Street, Suite 5	10a
	Project		DD&A	Monterey, CA 93940 (831) 373-4341	
Document Path: C:\GIS\GIS_Projects\2013-13 GWR\Final Products\BIO\Combined Wetland Delineation Maps\Figure 10a Ditch W	D Map 201504	408.mxd		(031) 373-4341	



	1,500 L 500	3,000 ft 1,000 m			17 18 31	
Potential Federal Wetland	Potential Coastal Wetland	Potential Other Waters of the U.S.	K			U.B.
14.41 ac.	18.37 ac.	51.15 ac.				
Please note that th wetlands or other boundary (diversic Evaluation Area.	waters within the G	GWR Project Site	X			



5. Jurisdiction

Sections within each evaluation area were identified as having the potential to support wetlands and/or other waters. Approximately 51.94 acres of other waters of the U.S. and 15.28 acres of federal wetlands potentially under the jurisdiction of the ACOE were identified within the evaluation areas. Of the federal wetlands potentially under the jurisdiction of the ACOE approximately 14.68 acres are located in the coastal zone and may also be under the jurisdiction of the CCC. Approximately 4.84 additional acres of potential coastal wetlands under the jurisdiction of the CCC were also identified.

5.1. Federal Jurisdiction

5.1.1. Reclamation Ditch Diversion

Approximately 0.05 acre of potential other waters of the U.S. were identified within the Reclamation Ditch Diversion evaluation area (**Figure 4**; **Appendix A**). No potentially federal wetlands were identified in this evaluation area.

5.1.2. Tembladero Slough Diversion

Approximately 0.20 acre of potential other waters of the U.S. were identified within the Tembladero Slough Diversion evaluation area (**Figure 5**; **Appendix A**). No potentially federal wetlands were identified in this evaluation area.

5.1.3. Blanco Drain Diversion

Approximately 0.12 acre of the agricultural drainage ditch and approximately 0.18 acre of the main channel of the Salinas River were identified as potential other waters of the U.S. within the Blanco Drain Diversion evaluation area (**Figure 6**; **Appendix A**). No potentially federal wetlands were identified in this evaluation area.

5.1.4. Locke Paddon Lake

Within the Locke Paddon Lake evaluation area, approximately 0.26 acre of federal wetlands potentially under ACOE jurisdiction was identified (**Figure 7**; **Appendix A**). Please note that the wetlands at Locke Paddon Lake extend beyond the evaluation area; however, due to access issues only the area within the GWR Project site were evaluated. No potential other waters of the U.S. were identified within the evaluation area.

5.1.5. Roberts Lake

Within the Roberts Lake evaluation area, approximately 0.55 acre of potential federal wetlands and 0.25 acre of potential other waters were identified (**Figure 8**; **Appendix A**). Please note that the wetlands at Roberts Lake extend beyond the evaluation area; however, due to access issues only the area within the GWR Project site was evaluated.

5.1.6. Lake El Estero Diversion

No potentially federal wetlands or other waters of the U.S. are present within the Lake El Estero Diversion evaluation area (**Figure 9**; **Appendix A**). Approximately 0.69 acre of potentially federal wetland and 17.27 acre of potential other waters are present within Lake El Estero; however, these areas will not be impacted by construction of water diversion as a result of the GWR Project.

5.1.7. Ditch

Approximately 14.41 acres of federal wetlands potentially under the jurisdiction of the ACOE were identified within the Ditch evaluation area (Figures 10a and 10b; Appendix A). Additionally, approximately 51.15 acres of other waters were identified within this evaluation area.

5.2. CCC Jurisdiction

5.2.1. Reclamation Ditch Diversion

The Reclamation Ditch Diversion evaluation area is not located in the coastal zone. As such, no potential coastal wetlands are present within this area.

5.2.2. Tembladero Slough Diversion

Approximately 0.01 acre of wetlands potentially under the jurisdiction of the CCC was identified within the Tembladero Slough Diversion evaluation are (**Figure 5**; **Appendix A**).

5.2.3. Blanco Drain Diversion

The Blanco Drain Diversion evaluation area is not located in the coastal zone. As such, no potential coastal wetlands are present within this area.

5.2.4. Locke Paddon Lake

Approximately 0.57 acre of wetlands potentially under the jurisdiction of the CCC was identified within the Locke Paddon Lake evaluation area (**Figure 7**; **Appendix A**). This number includes potentially federally jurisdictional wetlands and additional areas that met only one or two parameters. Please note that the wetlands at Locke Paddon Lake extend beyond the evaluation area; however, due to access issues only the area within the GWR Project site were evaluated.

5.2.5. Roberts Lake

Approximately 0.57 acre of wetlands potentially under the jurisdiction of the CCC was identified within the Roberts Lake evaluation area (**Figure 8**; **Appendix A**). This number includes potentially federally jurisdictional wetlands and additional areas that met only one or two parameters.

5.2.6. Lake El Estero Diversion

The Lake El Estero Diversion evaluation area is not located in the coastal zone. As such, no potential coastal wetlands are present within this area.

5.2.7. Ditch

Approximately 18.37 acres of wetlands potentially under the jurisdiction of the CCC were identified within the Ditch evaluation area (**Figures 10a and 10b**; **Appendix A**). This number includes 13.88 acres of potentially federally jurisdictional wetlands and 4.5 acres of additional areas that met only one or two parameters.

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Appendix A: Wetland Determination Data Forms for the Arid West Region

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Project/Site: Ground Water Replenishment (GWP	City/County: Moss Landing Monterey Sampling Date: 7-24-14
Applicant/Owner: MRWPCA	State: Sampling Point:
Investigator(s): Jan Davis, Mar Jonnson	Section, Township, Range:
Landform (hillslope, terrace, etc.): Dank of Channel	Local relief (concave, convex, none): Slope (%):
Subregion (LRR): LRRC La	t: Datum: 121° 47' 20.09" Datum: 1VAD 23
Soil Map Unit Name: AVISO SILLA Claud DOUN	NWI classification Estymanie + Marine DW
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes No \underline{X} (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signific	cantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation N , Soil N , or Hydrology N natura	Ily problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	is the Sampled Area
Wetland Hydrology Present? Yes <u>No</u>	within a Wetland? Yes No X
Remarks: Third year of statewide charget	
VEGETATION – Use scientific names of plants.	

	Absolute	Dominant Indicator	Dominance Test worksh	eet:
<u>Tree Stratum</u> (Plot size:) 1)	% Cover	Species? Status	Number of Dominant Spec	
			That Are OBL, FACW, or I	FAC: (A)
2			Total Number of Dominant Species Across All Strata:	1
4				
Sapling/Shrub Stratum (Plot size:)		= Total Cover	Percent of Dominant Spec That Are OBL, FACW, or F	ies FAC: <u>07</u> (A/B)
1	_		Prevalence Index works	neet:
2			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
4			FACW species	
5			FAC species	
		= Total Cover	FACU species	
Herb Stratum (Plot size:)	70		UPL species	
1. <u>Supponuis Cations</u> 2. <u>Grindella Stricta</u>	- <u>-10</u>	- NV		(A) (B)
3. Drassica nigra	3-	N ML	Prevalence Index =	B/A =
4. At ple sp V	2	N GAC	Hydrophytic Vegetation	
5. Frankenia Salina	5	N FACW	Dominance Test is >5	
6			Prevalence Index is ≤	3.0 ¹
7			Morphological Adapta	tions ¹ (Provide supporting on a separate sheet)
8				
Woody Vine Stratum (Plot size:)	21	= Total Cover	Problematic Hydrophy	tic Vegetation ¹ (Explain)
1			¹ Indicators of hydric soil ar	nd wetland hydrology must
2			be present, unless disturbe	
		= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum % Cove	er of Biotic Cr	rust	Vegetation Present? Yes	No_×
Remarks:				
willing and "such as of	21 al		Question	100 6 113
"WILL ON PIDIS "DUTEN OD SIG	Pe to	to the months of	- House	
odjach agree				
J . J .				

US Army Corps of Engineers

9.4.0

Sampling Point:

inches) Color (moist) %	Color (moist)	<u>x Features</u> <u>%</u> <u>Type</u> 1	_Loc ²	Texture	Remarks
	_				
ype: C=Concentration, D=Depletion ydric Soil Indicators: (Applicable f	, RM=Reduced Matrix, C	S=Covered or Coate	d Sand Grain	is. ² Locat	on: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
 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 (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) 	Sandy Rec Stripped M Loamy Mu Loamy Gle Depleted M Redox Dar 1) Depleted D	lox (S5) latrix (S6) cky Mineral (F1) yed Matrix (F2) Matrix (F3) rk Surface (F6) Dark Surface (F7) pressions (F8)		 2 cm Mud Reduced Red Pare Other (E) ³Indicators of wetland hy 	ck (A9) (LRR C) ck (A10) (LRR B) Vertic (F18) ent Material (TF2) cplain in Remarks) hydrophytic vegetation and drology must be present, urbed or problematic.
Туре:					
· · · · · · · · · · · · · · · · · · ·				the second reality	Contract Card Card Card Card Card
Depth (inches):				Hydric Soil P	resent? Yes <u>No</u>
Depth (inches): Remarks: Large rip rap				Hydric Soil P	resent? Yes <u>No</u>
Depth (inches): Remarks: Large rip rap YDROLOGY Wetland Hydrology Indicators:					
	rine) Recent In ery (B7) Thin Muc	st (B11)	Living Roots	<u>Second</u> Va Sec Drit Dra (C3) Dry Cra Sat Sha	resent? Yes <u>No</u> ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Depth (inches):		et (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres along e of Reduced Iron (C4 ron Reduction in Tille ck Surface (C7)	Living Roots 4) d Soils (C6)	<u>Second</u> Ywa Sec Drit X Dra (C3) Dry Cra Sat Sha FA	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Depth (inches):	Salt Crus Biotic Crus Aquatic I Hydrogen orine) Oxidized Presence Recent In ery (B7) Thin Muc Other (E: No Depth (i No Depth (i	tt (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres along e of Reduced Iron (C- ron Reduction in Tille ck Surface (C7) xplain in Remarks) nches): inches):	Living Roots 4) d Soils (C6)	<u>Second</u> Wa Sec Drit Drit Cra Sat Sha FAv	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Depth (inches):	Salt Crus Biotic Crus Aquatic I Hydrogen orine) Oxidized Presence Recent In ery (B7) Thin Muc Other (E: No Depth (i No Depth (i	tt (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres along e of Reduced Iron (C- ron Reduction in Tille ck Surface (C7) xplain in Remarks) nches): inches):	Living Roots 4) d Soils (C6)	<u>Second</u> Wa Sec Drit Drit Cra Sat Sha FAv	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

andform (hillslope, terrace, etc.): <u>1</u> ubregion (LRR): <u>PRC</u> oil Map Unit Name: <u>AV 150</u>	1	Lat: <u>3</u>	6°47'25.53'N	Long: 121°47'2	3.5.3 [] Datum: 1ADE	
re climatic / hydrologic conditions on	1.3	6			a series of the second s	1E
			ALC: NOT THE REPORT OF A DESCRIPTION OF A D			
re Vegetation $\underline{\gamma}$, Soil \underline{N} , o		2				_
re Vegetation N , Soil N , o	r Hydrology	1 ≥ naturally pro	blematic? (If ne	eded, explain any answe	rs in Remarks.)	
UMMARY OF FINDINGS -	Attach site i	map showing	sampling point l	ocations, transects	, important features, et	tc.
Hydrophytic Vegetation Present?	Yes		is the Sampled	Area		
Hydric Soil Present?	Yes	the second s	within a Wetlar	nd? Yes	No X	
Wetland Hydrology Present?	Yes	No				_
Remarks:						
						-
EGETATION – Use scientifi	c names of	plants.				
		Absolute	Dominant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:			Species? Status	Number of Dominant S		
1				That Are OBL, FACW,	or FAC: (A)	
2				Total Number of Domir	ant	
3		· ·		Species Across All Stra		
4				Percent of Dominant S	acion A4	
			= Total Cover	That Are OBL, FACW,		3)
Sapling/Shrub Stratum (Plot size: _						· .
1				Prevalence Index wor		
2					Multiply by:	
3				OBL species	x 1 =	
4					x 2 =	
5				and the state of the second state of the secon	x 3 =	
Eir		1.1.1.1	= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size: 5×5)	1000	~	UPL species	x 5 =	
1. larpobrohis edulis		1000		Column Totals:	(A) (B	
2			<u></u>			
3					= B/A =	
4			<u> </u>	Hydrophytic Vegetati		
5				Dominance Test is	>50%	
6				Prevalence Index i		
7				Morphological Ada	ptations ¹ (Provide supporting	
8					s or on a separate sheet)	
			= Total Cover	Problematic Hydro	phytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size:)			and the second second		
1			فستبسخ وسيسب	¹ Indicators of hydric so be present, unless dist	I and wetland hydrology must	
2				be present, unless dist	arbed of problematic.	
			= Total Cover	Hydrophytic		
		0		Vegetation Present? Ye	s No 🖌	
% Bare Ground in Herb Stratum	07					

C.	montin	Point	
58		POINT	

Profile Desc	cription: (Describe to	the depth	needed to docu	ment the i	ndicator	or confirm	the absence o	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks
0-18	2.54RU/2						sand	
				·				
				_				
	·			-			ا. فيصحف	· · · · · · · · · · · · · · · · · · ·
¹ Type: C=C	oncentration, D=Deple	tion, RM=R	educed Matrix, C	S=Covered	d or Coate	d Sand Gr		ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applical	ble to all LF	RRs, unless othe	rwise note	ed.)		Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mi	uck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Mi	uck (A10) (LRR B)
Black H	istic (A3)		Loamy Mu	cky Minera	l (F1)		Reduce	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Par	rent Material (TF2)
Stratifie	d Layers (A5) (LRR C)		Depleted M				Other (E	Explain in Remarks)
1 cm Mu	uck (A9) (LRR D)		Redox Dar	k Surface (F6)			
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)			
Thick Da	ark Surface (A12)		Redox Dep	oressions (F	-8)		³ Indicators o	of hydrophytic vegetation and
Sandy M	Aucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
Sandy C	Gleyed Matrix (S4)						unless dis	sturbed or problematic.
Restrictive	Layer (if present):							
Type:	A State Street Street		_					
Depth (in	ches):						Hydric Soil F	Present? Yes No
Remarks:								
IYDROLO	GY			_				
Wetland Hy	drology Indicators:							
	cators (minimum of on	e required:	check all that app	IV)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crust					ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					diment Deposits (B2) (Riverine)
Saturati			Aquatic In		e (P13)			ift Deposits (B3) (Riverine)
the second s	larks (B1) (Nonriverin nt Deposits (B2) (Noni			Sulfide Oc		Living Dog		ainage Patterns (B10)
	가 다는 것은 것은 것 같아. 것 같아.	1.		Rhizosphe				y-Season Water Table (C2)
	posits (B3) (Nonriveri	ne)		of Reduce	6 . N. C. L. S. S.	A 20 1 1 1 1 1 1		ayfish Burrows (C8)
	Soil Cracks (B6)			on Reduction		d Solis (Cb		Ituration Visible on Aerial Imagery (C9)
	on Visible on Aerial Im	agery (B7)		k Surface (A CONTRACTOR OF			allow Aquitard (D3)
	stained Leaves (B9)		Other (Ex	plain in Re	marks)	-	FA	C-Neutral Test (D5)
Field Obser			à maria					
Surface Wat	er Present? Ye	s No	the second s	iches):				
Water Table	Present? Ye	s No	Depth (ir	nches):				17
Saturation P	resent? Ye	s No	Depth (ir	ches):		_ Wetla	and Hydrology	Present? Yes No
	pillary fringe)							
Describe Re	corded Data (stream g	auge, moni	toring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:						_	0	
ricinarita.								

Project/Site:		City/County: Moss La	ndr. Monteres	_ Sampling Date: <u>7-24-14</u>
Applicant/Owner: MRWPCA				Sampling Point: 3
Investigator(s): Jami Davis, Mart	Uninson	Section, Township, Ra	nge:	
Landform (hillslope, terrace, etc.): Dank of	Channel.	Local relief (concave,	convex, none):	ave Slope (%): 5
Subregion (LRR):	Lat: <u>3</u>	6° 47' 25.481	Long: 121° 47'2	3.44 6) Datum: NADE
Soil Map Unit Name: <u>AIVISO SILTU (</u>	and the second sec			cation: Estuasinet Marin
Are climatic / hydrologic conditions on the site typica	al for this time of yea	ar? Yes No 2	(If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology _	N_significantly	disturbed? Are	"Normal Circumstances"	present? Yes X No
Are Vegetation, Soil, or Hydrology _	naturally pro	blematic? (If ne	eeded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing	sampling point l	ocations, transect	s, important features, etc
	incp enering		ooutione, transcort	o, important routeroo, ote
Hydrophytic Vegetation Present? Yes		Is the Sampled	Area	
Hydric Soil Present? Yes X Wetland Hydrology Present? Yes X	No No	within a Wetlar	nd? Yes 🗶	No
Remarks:				
NAME AND A DESCRIPTION OF A	5.76			
	L m la m ha			
/EGETATION – Use scientific names o				
	Absolute	Dominant Indicator Species? Status	Dominance Test wor	
/EGETATION – Use scientific names o <u>Tree Stratum</u> (Plot size:) 1	Absolute	Dominant Indicator Species? Status	Dominance Test wor Number of Dominant S That Are OBL, FACW,	Species
	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S That Are OBL, FACW,	Species 2 (A)
<u>Tree Stratum</u> (Plot size:) 1	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S	Species 2 (A) or FAC: (A)
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str	Species 2 (A) or FAC: <u>2</u> (A) nant <u>2</u> (B)
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S That Are OBL, FACW, Total Number of Domi	Species <u>2</u> (A) nant <u>2</u> (B) Species <u>11775</u>
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S	Species 2 (A) nant 2 (B) species 100% (A/B)
Tree Stratum (Plot size:) 1	Absolute Cover	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S That Are OBL, FACW,	Species 2 (A) nant 2 (B) Species (A/B) or FAC: 100% (A/B)
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo <u>Total % Cover of:</u>	Species 2 (A) nant 2 (B) Species (A/B) or FAC: 100% (A/B)
Tree Stratum (Plot size:) 1.	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo 	Species 2 (A) nant 2 (B) Species (B) or FAC: 100% (A/B) rksheet: Multiply by:
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Domin Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo	Species 2 (A) nant 2 (B) species 100% (A/B) rksheet:
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Dominant S Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo	Species or FAC: 2 (A) nant ata: 2 (B) Species or FAC: 100% (A/B) rksheet:
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Dominant S Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo	Species2(A)nant2(B)species 100% (A/B)or FAC: 100% (A/B)rksheet: $x 1 = $ $x 2 = $ $x 3 = $ $x 3 = $ $x 4 = $ $x 5 = $ $x 5 = $
Tree Stratum (Plot size:) 1.	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Dominant S Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo	Species or FAC: 2 (A) nant ata: 2 (B) Species or FAC: 100% (A/B) rksheet:
1.	Absolute <u>% Cover</u>	<u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW, Total Number of Dominant S Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo	Species2(A)nant2(B)species 100% (A/B)rksheet: 120% (A/B)rksheet: 120% (A/B)x 1 = $x 2 =$ x 2 = $x 3 =$ x 3 = $x 4 =$ x 5 =(A)(A)(B)
Tree Stratum (Plot size:) 1.	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S That Are OBL, FACW, Total Number of Dominant S Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo	Species or FAC: 2 (A) nant ata: 2 (B) Species or FAC: 100% (A/B) rksheet:
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo 	Species2(A)nant ata:2(B)Species or FAC: 100% (A/B)rksheet: $x 1 = $ $x 2 = $ $x 3 = $ $x 4 = $ $x 5 = $ $(A) (B)x = B/A =(B)x = B/A =(B)$
Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>	Species? Status	Number of Dominant S That Are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S That Are OBL, FACW, Prevalence Index wo 	Species2(A)nant2(B)species 100% (A/B)or FAC: 100% (A/B)rksheet: $x 1 = $ $x 2 = $ $x 3 = $ $x 4 = $ $x 3 = $ $x 4 = $ (A)(A)(B) $x = B/A = $ (B) $x > 50\%$

100 = Total Cover

% Cover of Biotic Crust

= Total Cover

)

Woody Vine Stratum (Plot size: ____

% Bare Ground in Herb Stratum _

8.

1. 2.

Remarks:

No

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Yes

Hydrophytic Vegetation

Present?

Sampling Point:

Depth			그는 것이 아이는 말 것이 하는 것이 않아. 않아 않아 않아 않아? 않아 않아 않아 않아. 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아. 않아 않아 않아 않아 않아. 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아 않아. 않아 않아 않아. 않아 않아 않아. 않아 않아 않아. 않아 않아. 않아 않아 않아. 않아 않아. 않아 않아. 않아 않아 않아. 않아.	and the second second						
(Inches)	Matrix Color (moist)	%	Color (moist)	ox Features %	Type ¹	Loc ²	Textur		Remarks	
(inches)	G1.3N	105%	2.5764/8	35%					INCIDIENS	
0-0	GI SN	0010	251440	- 2010			Siltya	100-		
8-18	G13N	90%	2.5-12-118	10%			Silty	010-7		
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¹ Type: C=C(oncentration, D=Deple	etion RM=	Reduced Matrix C	S=Covered	or Coated	Sand Gr	rains	² Location	: PL=Pore Lining, M=Ma	trix
	Indicators: (Applica								roblematic Hydric Soils	
Histosol			Sandy Rec		,				(A9) (LRR C)	C
			Stripped M					and the second	the second s	
	pipedon (A2)			cky Mineral	(E1)				(A10) (LRR B)	
Black Hi								educed Ve		
	en Sulfide (A4) d Layers (A5) (LRR C)	<u>,</u>	X Loamy Gle		(12)				Material (TF2)	
the second second second second	Automation and a second s)	Depleted N				_ 0	iner (Expla	ain in Remarks)	
	uck (A9) (LRR D) d Below Dark Surface	(011)		k Surface (I						
The second secon		(A11)		Dark Surface			3Indias	tors of hu	draphidia upgatation and	
	ark Surface (A12)			pressions (F	0)				drophytic vegetation and	
	Aucky Mineral (S1)		Vernal Poo	DIS (F9)					ology must be present, bed or problematic.	
	Gleyed Matrix (S4)						unie	ess disturb	ed or problematic.	
	Layer (if present):						-			
Type:							1.5.96		N.	
Depth (ind	ches):		_				Hydric	Soil Pres	ent? Yes 🔼 No	
	CV									
and the second										
Wetland Hyd	drology Indicators:		A 13439							
Wetland Hyd		ne required	check all that app	sly)			<u>s</u>	econdary	Indicators (2 or more reg	uired)
Wetland Hyd Primary Indic	drology Indicators:	ne required	check all that app Salt Crus	S. 1. 1. 2					Indicators (2 or more reg Marks (B1) (Riverine)	uired)
Wetland Hyd Primary Indic Surface	drology Indicators: cators (minimum of on	ne required		t (B11)				X Water		
Wetland Hyd Primary Indic Surface High Wa	drology Indicators: cators (minimum of on Water (A1) ater Table (A2)	ne required	Salt Crus Biotic Cru	t (B11) ıst (B12)	s (B13)			¥ Water Sedime	Marks (B1) (Riverine) ent Deposits (B2) (Riveri	
Wetland Hyd Primary Indic Surface High Wa Saturatio	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3)		Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrates			-	¥ Water _ Sedime _ Drift De	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine)	
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir	ne)	Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) ist (B12) nvertebrates n Sulfide Od	or (C1)	iving Roc	-	X Water Sedime Drift De	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10)	
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non	ne) riverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ust (B12) nvertebrates n Sulfide Od Rhizospher	or (C1) es along L		-	¥ Water _ Sedime _ Drift De ¥ Draina _ Dry-Se	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2)	
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri	ne) riverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) ust (B12) nvertebrates n Sulfide Od Rhizospher e of Reduced	or (C1) es along L d Iron (C4))	 ots (C3)	 Water Sedime Drift De Drainag Dry-Se Crayfis 	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8)	ne)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6)	ne) riverine) ine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrates o Sulfide Od Rhizospher of Reduced on Reductio	or (C1) es along L d Iron (C4) on in Tilled)	 ots (C3)	X Water Sedime Drift De Drainae Dry-Se Crayfis Satural	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Ima	ne)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non oosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im	ne) riverine) ine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir) Thin Muc	t (B11) ust (B12) nvertebrates o Sulfide Od Rhizospher of Reduced on Reductio k Surface (0	or (C1) es along L d Iron (C4) on in Tilled C7))	 ots (C3)	 Water I Sedime Drift De Drainae Dry-Se Crayfis Saturae Shallov 	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Ima w Aquitard (D3)	ne)
Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9)	ne) riverine) ine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir) Thin Muc	t (B11) ust (B12) nvertebrates o Sulfide Od Rhizospher of Reduced on Reductio	or (C1) es along L d Iron (C4) on in Tilled C7))	 ots (C3)	 Water I Sedime Drift De Drainae Dry-Se Crayfis Saturae Shallov 	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Ima	ne)
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Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S Field Obser	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye	ne) riverine) ine) nagery (B7	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir) Thin Muc Other (Ex	t (B11) ust (B12) nvertebrates o Sulfide Od Rhizospher of Reducer on Reduction k Surface (C splain in Ref	or (C1) es along L d Iron (C4) on in Tilled C7) marks)) Soils (C6	 ots (C3)	 Water I Sedime Drift De Drainae Dry-Se Crayfis Saturae Shallov 	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Ima w Aquitard (D3)	ne)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S Field Obser Surface Water	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non- posits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye Present? Ye	ne) ríverine) nagery (B7 es N es N	Salt Crus Solt Crus Solt Cru Aquatic Ir Aquatic Ir Oxidized Presence Recent Ir Other (Ex Other (Ex In Depth (ir	t (B11) ust (B12) nvertebrates a Sulfide Od Rhizospher of Reduced on Reductio k Surface (0 cplain in Rer nches): nches):	or (C1) es along L d Iron (C4) on in Tilled C7) marks)) Soils (C6	2 	Vater Sedime Drift De Drainag Dry-Se Crayfis Satural Shallov FAC-N	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Ima w Aquitard (D3) leutral Test (D5)	ne) gery (C9)
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Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observ Surface Water Surface Water Surface Coserv Surface Coserv	drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir nt Deposits (B2) (Non cosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye Present? Ye resent? Ye	ne) riverine) ine) nagery (B7 es N es N	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Other (Ex Other (Ex Depth (ir Depth (ir	t (B11) ust (B12) nvertebrates n Sulfide Od Rhizospher e of Reduced on Reductio k Surface (0 xplain in Rer nches): nches):	or (C1) es along L d Iron (C4) on in Tilled C7) marks)) Soils (C6 		Water Sedime Drift De Drift De Dry-Se Crayfis Satural Shallov FAC-N	Marks (B1) (Riverine) ent Deposits (B2) (Riveri eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Ima w Aquitard (D3) leutral Test (D5)	ne) gery (C9)
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oil Map Unit Name: <u>AUISO</u>	the site typical for	Lat: 30	Local relief (concave, <u>5°47'23 & ''//</u> ar? Yes No disturbed? Are '	convex, none):Slope (%):O Long:121° 47′ 29.54″W Datum: NAD83 NWI classification: Estimative + Marcine
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes X Yes X Yes X Yes X	_ No	sampling point I	
/EGETATION – Use scientific	c names of p	plants.		
Tree Stratum (Plot size:)	Absolute <u>% Cover</u>	Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species
1 2 3			·	That Are OBL, FACW, or FAC:
4			= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by: OBL species x1 =
4				FACW species x 2 =
5.				FAC species x 3 =
			= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:		110	2 FANI	UPL species x 5 =
1. (grindellastricta		40	- FACN	Column Totals: (A) (B)
2. Frankenia Saline			Y FACW	Prevalence Index = B/A =
3. Juamea Carnos			N LEL	Hydrophytic Vegetation Indicators:
4			<u> </u>	Dominance Test is >50%
5				Prevalence Index is <3.0 ¹
6				Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
			= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			
1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			Transfer to the second	
holp-41 h Julas 1			= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum	+3			Vegetation

1.4.1.1.1.1		
Same	lina	Point:
Sam	Jung	r'unit.

Color (most) % Color (most) % Type Loc [®] Texture Remarks 2 - (2) (2)	rofile Description: (Describe to the				or comm	in the abs	ence of indicators.)
Q-13 Q5-15-12 TOZ Q5-16-3/µ 30.2 A Sand S14 DHB H TOZ Q5-16-3/µ 30.4 Gand S14 DHB H TOZ Q5-16-3/µ Sand Sand yze: C-Concentration. D=Depletion, Rki-Reduced Matrix CS=Covered of Coated Sand Grains *Location: PL=Pore Lining, M=Matrix yze: C-Concentration (A1) Sandy Mcdx Mineral (F1) Reduced Vertic (F18) Indicators for Problematic Hydric Solls': Histic Eppedon (A2) Stripped Matrix (F2) Red Parent Matriatel (F2) Secondary Indicators of hydrophylic vegletion and wetliand hydrology must be present. Strattec (A12) Redox Dark Surface (F6) Other (Explain in Remarks) Indicators of hydrophylic vegletion and wetliand hydrology must be present. Sandy Mcdx Mineral (F1) Verail Pools (F8) Indicators (10 (Incators: (2 or more required) Sandy Micky Mineral (F1) Sattock (B1) Secondary Indicators (2 or more required)					Loc ²	Textu	re Remarks
Q-1.3 Q.5.15/2 TOZ Q.5.16.3/4 Gar.4 3-1.5 T.5.16.5/1 TOZ Q.5.16.3/4 Gar.4 5.14 ToPE TOZ Q.5.16.3/4 Gar.4 Stat ToPE ToZ Q.5.16.3/4 Gar.4 yrac C-Concentration D-Epoletion RM-Reduced Matrix CS-Covered or Coaled Sand Grains *Location PL-Pore Lining, M-Matrix yrac Sandy Redox (S5)	2- (0 10-18-13 100	12				coars	eloury sand
3.15 7.5/1631 D0% 3.5 H 3/4 D7% M San A 946 D1% D2% D5 M San A Game 947 501 D1% D2% M San A Game 947 Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators for Problematic Hydric Solis*: 1 Histos Epipedon (A2) Stripped Matrix (S6) 1 ort Muck (A9) (LRR C) 1 Communic (Applicable to all LRRs, unless otherwise noted) Indicators for Problematic Hydric Solis*: 1 Histos Epipedon (A2) Stripped Matrix (F2) Red Parent Material (F2) 1 Commuck (A10) (LRR D) Red case Dark Surface (F3) Other (Explain in Remarks) 1 ort Muck (M0 (LRR D) Red case Dark Surface (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 2 Sandy Gleyd Matrix (S1) Vernal Pools (F6) Water Marks (S1) Vernal Pools (F9) 2 Static Curst (E12) Secondary Indicators (2 or more regulard) Secondary Indicators (2 or more regulard) 2 Sard K1 (M1)	0-13 25152 70	25-123/10	302	(M	Sand	
SIR IDPL 107 M Sundard of the second	2-15 7.5-185/1 100	2			-		
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, Character State	1	9 DENOZIA	1127		M		infa
pdrb Soil Indicators: (Applicable to all LRRe, unless otherwise noted.) Indicators for Problematic Hydric Soils ² : Histosol (A1)	016 1018-11 10	5 2.3 F-14	1010			Saum	1000
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ² :				_	_		
					ed Sand G		
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			and the second	(E1)			
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				8)			
setrictive Layer (if present): Type: Depth (inches):		venial Pool	15 (19)				
Type:						1	
Depth (inches): Hydric Soil Present? Yes / No emarks: //DROLOGY //etland Hydrology Indicators: immary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)							
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tetland Hydrology Indicators: Secondary Indicators: timary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	Depth (inches):					Hydric	Soil Present? Yes <u>X</u> No No
timary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	Depth (inches): emarks:					Hydric	Soil Present? Yes <u>X</u> No
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urface Water Present? Yes No <ir> Ves No <ir> Ves No <ir> Depth (inches): /ater Table Present? Yes No <ir> Depth (inches): aturation Present? Yes No <ir> Depth (inches): mcludes capillary fringe) No <ir> Depth (inches): escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</ir></ir></ir></ir></ir></ir>	Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one reg Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriveri Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust Biotic Crus Biotic Crus Aquatic In Hydrogen Morean Avenue Presence Recent Inc	(B11) st (B12) wertebrates Sulfide Od Rhizospher of Reduced on Reductio	or (C1) es along d Iron (C- on in Tille	4)	§	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
/ater Table Present? Yes No <u>C</u> Depth (inches): aturation Present? Yes No <u>C</u> Depth (inches): Wetland Hydrology Present? Yes <u>No</u> ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one reg Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9)	ine) Salt Crust Blotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Inc ry (B7) Thin Muck	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reductio	or (C1) es along d Iron (C- on in Tille C7)	4)	§	Secondary Indicators (2 or more required) Vater 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)
aturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one reg 	Salt Crust Biotic Crus Aquatic In Hydrogen ine) Oxidized F Presence Recent Irc ry (B7) Thin Muck Other (Exp	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reduction Con Reduction Con Reduction Con Reduction	or (C1) es along d Iron (C- on in Tille C7)	4)	§	Secondary Indicators (2 or more required) Vater 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)
ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one reg 	Salt Crust Biotic Crus Aquatic In Hydrogen ine) Oxidized F Presence Recent Irc y (B7) Thin Muck Other (Exp No Depth (in	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reduction Surface (C plain in Rer	or (C1) es along d Iron (C- on in Tille C7)	4)	§	Secondary Indicators (2 or more required) Vater 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)
emarks:	Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one rego 	Salt Crust Blotic Crus Aquatic In Hydrogen ine) Oxidized F Presence Recent Irc Recent Irc Recent Irc No Depth (in No Depth (in	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reductio & Surface (C plain in Rer aches):	or (C1) es along d Iron (C- on in Tille C7)	4) d Soils (C	5 	Secondary Indicators (2 or more required) Vater 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)
	Depth (inches):	Salt Crust Biotic Crus Aquatic In Hydrogen ine) Oxidized F Presence Recent Irc Recent Irc No Dther (Exp No Depth (in No Depth (in No Depth (in	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reductio (Surface (C plain in Rer aches): aches):	or (C1) es along d Iron (C- on in Tille C7) marks)	4) d Soils (C Wet		Secondary Indicators (2 or more required) Vater 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)
Same 152	Depth (inches):	Salt Crust Biotic Crus Aquatic In Hydrogen ine) Oxidized F Presence Recent Irc Recent Irc No Dther (Exp No Depth (in No Depth (in No Depth (in	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reductio (Surface (C plain in Rer aches): aches):	or (C1) es along d Iron (C- on in Tille C7) marks)	4) d Soils (C Wet		Secondary Indicators (2 or more required) Vater 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)
	Depth (inches):	Salt Crust Biotic Crus Aquatic In Hydrogen ine) Oxidized F Presence Recent Irc Recent Irc No Dther (Exp No Depth (in No Depth (in No Depth (in	(B11) st (B12) wertebrates Sulfide Od Rhizosphen of Reduced on Reductio (Surface (C plain in Rer aches): aches):	or (C1) es along d Iron (C- on in Tille C7) marks)	4) d Soils (C Wet		Secondary Indicators (2 or more required) Vater 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)

Project/Site:GNR	City/County: MOSS and no My More Sampling Date: 7-24-14
Applicant/Owner: MRWPCA	State: Sampling Point:
Investigator(s): Jami Davis Math Jonns	Section, Township, Range:
Landform (hillslope, terrace, etc.): SNALE	Local relief (concave, convex, none): Electron Concerve Flat Slope (%):
Subregion (LRR): La	at: 36 41 2408 1/ Long: 121 47 31.63 41 Datum: NAD 83
Soil Map Unit Name: AUSO SIELCOLLOPM	NWI classification: Estud as + Morine Wet lun
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signific	cantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natura	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)			Species? S	itatus	Dominance Test works Number of Dominant Spe		T	
1					That Are OBL, FACW, or	FAC:	-	(A)
2			÷	_	Total Number of Dominar	nt	1	
3					Species Across All Strata			(B)
4					Percent of Dominant Spe	cies ,	1.1	
Sapling/Shrub Stratum (Plot size:)		= Total Cover		That Are OBL, FACW, or		007,	(A/B)
1					Prevalence Index works	heet:		
2				-0	Total % Cover of:	Mu	Itiply by:	_
3					OBL species	x1=		_
4					FACW species	x 2 =		
5					FAC species	x 3 =		
10-10			= Total Cover		FACU species	x 4 =		2.1
Herb Stratum (Plot size: 10×10)		-1-	XI -	n.	UPL species			
1. Sarcolnia publica		12		104	Column Totals:			
2. Franken a salina		<u></u>		ACM				
3. poheniis spicata				AC	Prevalence Index =	and the second se		-
4. Juanca Carnosa				BL	Hydrophytic Vegetation			
5					Dominance Test is >			
6					Prevalence Index is ≤	3.0 ¹		
7					Morphological Adapta data in Remarks of	itions ¹ (Provi r on a separ	ide support ate sheet)	ting
		100	= Total Cover		Problematic Hydroph	ytic Vegetati	on ¹ (Explai	n)
Woody Vine Stratum (Plot size:)	100	- Total Cover					
1					¹ Indicators of hydric soil a	nd wetland h	ydrology n	nust
2				-	be present, unless disturb	ed or proble	matic.	24
			= Total Cover		Hydrophytic			
% Bare Ground in Herb Stratum	% Cover	of Biotic Cr	rust		Vegetation Present? Yes	X No		
Remarks:								-

US Army Corps of Engineers

S

OIL								Sampling Point:
Profile Desc	cription: (Describe	to the dep				or confi	rm the absence	of indicators.)
Depth	Matrix			ox Features	Trunal	12	- Touturo	Remarks
(inches)	<u>Color (moist)</u>	%	Color (moist)	%	Type ¹	_Loc ²	Texture	darker than Mulser
1-10	1000411	85%	25-123/6	15%	M	A	Sandy Silty ba	MEM (edo- on 1053
1-10	DEVAL		54R4/10	25%	N. A	10	Silt (Dam / San	
10-10	dis [3]]	7592	DIETIO			_	- sin pour an	S CONCEMENTING
Hydric Soil	concentration, D=De Indicators: (Applic	pletion, RM	LRRs, unless othe	erwise note	l or Coate	ed Sand	Indicators	cation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histoso	and the second second		Sandy Rec					Muck (A9) (LRR C) Muck (A10) (LRR B)
	pipedon (A2) listic (A3)		Stripped M	icky Mineral	(F1)			ed Vertic (F18)
	en Sulfide (A4)			eyed Matrix			and the second sec	arent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted I				Other	(Explain in Remarks)
	uck (A9) (LRR D)			rk Surface (
	d Below Dark Surfa	ce (A11)		Dark Surfac			³ Indicators	of hydrophytic vegetation and
	Park Surface (A12)		Redox De	pressions (I	-8)			hydrology must be present,
	Mucky Mineral (S1) Gleyed Matrix (S4)		veniario	013 (1 3)				listurbed or problematic.
Sector and the sector of the s	Layer (if present):	1						
Type:								1
Depth (ir	nches):						Hydric Soil	Present? Yes <u>No</u> No
Remarks:								
IYDROLO	DGY							
22. Sec. 1	ydrology Indicators							A 11 1 1 1 1 1 1 1 1 1 1 1 1 1
	icators (minimum of		d; check all that ap	ply)			Seco	ndary Indicators (2 or more required)
CTT 10.0277	e Water (A1)		Salt Crus				V	Water Marks (B1) (Riverine)
The second second	later Table (A2)			ust (B12)				Sediment Deposits (B2) (Riverine)
Saturat	tion (A3)		Aquatic	Invertebrate	es (B13)		0	Drift Deposits (B3) (Riverine)

 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) 	Crayfish Burrows (C8)
Field Observations: Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	X Depth (inches): X Depth (inches):	Vetland Hydrology Present? Yes X No
Remarks:		

Landform (hillslope, terrace, etc.): <u>dure stope</u> Subregion (LRR): <u>LRRC</u> Lat: <u>36</u> Soil Map Unit Name: <u>AUSS SITE Classifier</u> Are climatic / hydrologic conditions on the site typical for this time of year	City/County: Model Marker
Landform (hillslope, terrace, etc.): <u>dure slope</u> L Subregion (LRR): <u>LRRC</u> Lat: <u>36</u> Soil Map Unit Name: <u>Alviso sitted clage loan</u> Are climatic / hydrologic conditions on the site typical for this time of year	Local relief (concave, convex, none): <u>CONLAVE</u> Slope (%): <u>12</u> <u>6°47'24'05''N</u> Long: <u>121°47'31.84''W</u> Datum: <u>MD 83</u> NWI classification: <u>Estumente May loce</u> unoffa
Subregion (LRR): Lat: 36 Soil Map Unit Name: Alviso soil + Clegg 1 vam Are climatic / hydrologic conditions on the site typical for this time of year	NWI classification: Etucine + Marce wolfa
Soil Map Unit Name: <u>AUSOSILE Classical</u> Are climatic / hydrologic conditions on the site typical for this time of year	NWI classification: Etucine + Marine Wolfs
Are climatic / hydrologic conditions on the site typical for this time of year	N
	nr? Yes No (If no, explain in Remarks.)
Are Vegetation N Soil A) or Hydrology A	
significantly d	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} naturally prob	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No <u>×</u>	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No 🖌
Wetland Hydrology Present? Yes No	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2 3			Total Number of Dominant (B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Encameria ericoidos	5	YNL	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
112412	5	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 10×10)	10		UPL species x 5 =
1. Distichus		N FAC	Column Totals: (A) (B)
2. Corpoprotus	- 20	Y_NL	
3		2	Prevalence Index = B/A =
4		<u> </u>	Hydrophytic Vegetation Indicators:
5	10000		Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)	90	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
1)			¹ Indicators of hydric soil and wetland hydrology must
2			be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Cove		= Total Cover	Hydrophytic Vegetation Present? Yes <u>No X</u>
Remarks:			

3

Sampling Point:

Depth <u>Matrix</u>		Features %	1 1002	Toxturo	Remarks
(inches) Color (moist) %	6 Color (moist)	<u></u>			Remarks
5-18 2.5 YRU 2				sana_	
	<u> </u>				
Type: C=Concentration, D=Depletion	, RM=Reduced Matrix, CS	=Covered or Co	ated Sand Gr	rains. ² Locatio	on: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
lydric Soil Indicators: (Applicable)					: 2012년 (1912년 1917년 1917년 1917년 - 1월 1917년
Histosol (A1)	Sandy Redo Stripped Ma				k (A9) (LRR C) k (A10) (LRR B)
 Histic Epipedon (A2) Black Histic (A3) 		ky Mineral (F1)			Vertic (F18)
Hydrogen Sulfide (A4)	the second s	ed Matrix (F2)		the second s	nt Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Ma				plain in Remarks)
1 cm Muck (A9) (LRR D)		Surface (F6)			
Depleted Below Dark Surface (A1		ark Surface (F7)			
Thick Dark Surface (A12)		essions (F8)		³ Indicators of I	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools	s (F9)			rology must be present,
Sandy Gleyed Matrix (S4)				unless distu	rbed or problematic.
Restrictive Layer (if present):					
Туре:				and the second	1
Depth (inches):				Hydric Soil Pr	esent? Yes No
Remarks:					
				Injune con the	
YDROLOGY				Injune con the	
YDROLOGY Wetland Hydrology Indicators:					
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re	equired; check all that apply			Seconda	ry Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1)	equired; check all that apply	(B11)		<u>Seconda</u> Wate	ry Indicators (2 or more required) er Marks (B1) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water \$\Piable (A2)	equired; check all that apply Salt Crust Biotic Crust	(B11) st (B12)		<u>Seconda</u> Wate Sedi	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water ∜able (A2) Saturation (A3)	equired; check all that apply Salt Crust Biotic Crus Aquatic Inv	(B11) st (B12) vertebrates (B13		<u>Seconda</u> Wate Sedi Drift	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regimer)	equired; check all that apple Salt Crust Biotic Crus Aquatic Inv Hydrogen	(B11) st (B12) vertebrates (B13 Sulfide Odor (C	1)	<u>Seconda</u> Wate Sedi Drift Drai	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re	equired; check all that apply Salt Crust Biotic Crus Aquatic Inv Hydrogen prine) Oxidized F	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres alo	1) ong Living Ro	<u>Seconda</u> Wate Sedi Drift Drai ots (C3) Dry-	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
High Water fable (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonrive Drift Deposits (B3) (Nonriverine)	equired; check all that apple Salt Crust Biotic Crus Aquatic Im Hydrogen rrine) Oxidized F Presence of	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron	1) ong Living Ro (C4)	<u>Seconda</u> Vate Sedi Drift Drai ots (C3) Dry- Cray	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regeneric construction) 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)	equired; check all that apply Salt Crust Biotic Crus Aquatic Inv Hydrogen erine) Oxidized F Presence o Recent Iro	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron n Reduction in ⁻	1) ong Living Ro (C4)	<u>Seconda</u> Vate Sedi Drift Drai ots (C3)Dry- Cray 6)Satu	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regenerations) Surface Water (A1) High Water fable (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image	equired; check all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen erine) Oxidized F Presence of Recent Iro ery (B7) Thin Muck	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7)	1) ong Living Ro (C4) Filled Soils (C	<u>Seconda</u> Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Satu Shai	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regenerations) Surface Water (A1) High Water f able (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)	equired; check all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen erine) Oxidized F Presence of Recent Iro ery (B7) Thin Muck	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron n Reduction in ⁻	1) ong Living Ro (C4) Filled Soils (C	<u>Seconda</u> Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Satu Shai	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regovername) Surface Water (A1) High Water fable (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)	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine) Oxidized F Presence of Recent Iro ery (B7) Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in Surface (C7) oblain in Remarks	1) ong Living Ro (C4) Filled Soils (C	<u>Seconda</u> Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Satu Shai	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regeneric stream of the	equired; check all that apple Salt Crust Biotic Crus Aquatic Im Hydrogen errine) Oxidized F Presence of Recent Iro erry (B7) Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) plain in Remarks ches):	1) ong Living Ro (C4) Filled Soils (C ;)	<u>Seconda</u> Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Satu Shai	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regeneration of a section	equired; check all that apply 	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) blain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C)	Seconda 	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regovername) Surface Water (A1) High Water f able (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 _ Water Table Present? Yes _ Saturation Present? Yes _ Saturation Present? Yes _	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine)Oxidized F Presence of Recent Iro ery (B7)Thin Muck Other (Exp NoDepth (inc NoDepth (inc NoDepth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) olain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C ;) Wet	Seconda Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Stat Shai FAC	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regovername) Surface Water (A1) High Water f able (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 _ Water Table Present? Yes _ Saturation Present? Yes _ Saturation Present? Yes _	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine)Oxidized F Presence of Recent Iro ery (B7)Thin Muck Other (Exp NoDepth (inc NoDepth (inc NoDepth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) olain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C ;) Wet	Seconda Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Stat Shai FAC	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regovername) Surface Water (A1) High Water fable (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 _ Water Table Present? Yes _ Saturation Present? Yes _ Mater Table Present? Yes _ Saturation Present? Yes _ Describe Recorded Data (stream gauge)	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine)Oxidized F Presence of Recent Iro ery (B7)Thin Muck Other (Exp NoDepth (inc NoDepth (inc NoDepth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) olain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C ;) Wet	Seconda Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Stat Shai FAC	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regeneration of a section	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine)Oxidized F Presence of Recent Iro ery (B7)Thin Muck Other (Exp NoDepth (inc NoDepth (inc NoDepth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) olain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C ;) Wet	Seconda Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Stat Shai FAC	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regovername) Surface Water (A1) High Water fable (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 _ Water Table Present? Yes _ Saturation Present? Yes _ Mater Table Present? Yes _ Saturation Present? Yes _ Describe Recorded Data (stream gauge)	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine)Oxidized F Presence of Recent Iro ery (B7)Thin Muck Other (Exp NoDepth (inc NoDepth (inc NoDepth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) olain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C ;) Wet	Seconda Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Stat Shai FAC	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one regovername) Surface Water (A1) High Water fable (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 _ Water Table Present? Yes _ Saturation Present? Yes _ Mater Table Present? Yes _ Saturation Present? Yes _ Describe Recorded Data (stream gauge)	equired; check all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen wrine)Oxidized F Presence of Recent Iro ery (B7)Thin Muck Other (Exp NoDepth (inc NoDepth (inc NoDepth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron in Reduction in Surface (C7) olain in Remarks ches): ches):	1) ong Living Ro (C4) Filled Soils (C ;) Wet	Seconda Wate Sedi Drift Drai ots (C3) Dry- Cray 6) Stat Shai FAC	ry Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)

Project/Site:	City/County:
Applicant/Owner: MRWPCA	State: <u>CA</u> Sampling Point: 7
Investigator(s): Jami Davie, Mars Johnson	Section, Township, Range:
Landform (hillslope, terrace, etc.): top of berm	
Subregion (LRR): LRC Lat:	36°47'14.80"N Long: 121°47'33,46"W Datum: NAD&3
Soil Map Unit Name: A-1/150 Silt-1 clay Loan	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation M_, Soil N_, or Hydrology M_ significa	ntly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally	
	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No/	within a Wetland? Yes No
Remarks:	
VEGETATION – Use scientific names of plants.	

Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species 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: ____ 102101 1. Gricamería encoldas Prevalence Index worksheet: 2. Bachevis 3110/12 Total % Cover of: Multiply by: 3. ____ OBL species _____ x 1 = _____ 4. _____ x 2 = __ FACW species 5. FAC species x 3 = FACU species = Total Cover x 4 = Herb Stratum (Plot size: UPL species x 5 = 1. Distichie Spirate Column Totals: _ (A) ____ (B) Franzenia 2. alina 3. Carponnotus edulis 1 Prevalence Index = B/A = 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. Problematic Hydrophytic Vegetation¹ (Explain) = Total Cover Woody Vine Stratum (Plot size: _____) 1:_____ ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _ Present? Yes No Remarks:

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	FUILD.	

rofile Description: (Describe to the depth ne		
Depth <u>Matrix</u> Inches) Color (moist) % C	Redox Features Color (moist) % Type ¹ Lo	pc ² Texture Remarks
<u>nches)</u> <u>Color (moist)</u> <u>%</u> <u>C</u>)-18 <u>75 18 3</u> [2		Sandy loam
ype: C=Concentration, D=Depletion, RM=Rec	luced Matrix, CS=Covered or Coated Sa	and Grains. ² Location: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to all LRR	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils":
_ 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) Red Parent Material (TF2)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3) Redox Dark Surface (F6)	
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	³ 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):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11)	
Depth (inches):	Salt Crust (B11) Biotic Crust (B12)	
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livit 	
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	Secondary Indicators (2 or more required)
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 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) ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): 	Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)

Project/Site:GWR	City/County: Mess Land no Monterey Sampling Date: 7-24-14
Applicant/Owner: MEMPCA	State:Sampling Point:
Investigator(s): Dam Davis, Matt Joh	MSDM Section, Township, Range:
Landform (hillslope, terrace, etc.): Dank of Chan	
Subregion (LRR):	Lat: 36 91/14 58 N Long: 121 911 33.32 4) Datum: NA D83
Soil Map Unit Name: Alviso Sity clay	Dam NWI classification: 1/A
Are climatic / hydrologic conditions on the site typical for thi	
Are Vegetation, Soil, or Hydrology	
	naturally problematic? (If needed, explain any answers in Remarks.)
Attach site map	showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X N	0 Is the Sampled Area
	0
Wetland Hydrology Present? Yes N	• within a Wetland? Yes <u></u> No
Remarks:	

VEGETATION – Use scientific names of plants.

	Absolute Dominant Indica <u>% Cover</u> Species? Statu	
Tree Stratum (Plot size:) 1		That Are OBL, FACW, or FAC:
23		Total Number of Dominant Species Across All Strata: (B)
4		
Sapling/Shrub Stratum (Plot size:)		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of:Multiply by:
3		OBL species x 1 =
4		FACW species x 2 =
5		FAC species x 3 =
Herb Stratum (Plot size: 5x5)	= Total Cover	FACU species x 4 =
	C J AD	UPL species x 5 =
2. Trankenia salina	- 20 V TAC	Column Totals: (A) (B)
3		Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	100% = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		
1		¹ Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Co	= Total Cover	Hydrophytic Vegetation
		Present? Yes No

Sampling Point:

Profile Description: (Describe to the de Depth <u>Matrix</u>	Redox Features	
inches) Color (moist) %	Color (moist) % Type ¹ L	oc ² Texture Remarks
0-6 7.51R 3/3 100%		sandyclas
10-18 923/1036 70%	25132 10 1	1 Clay
s to che che		0
the second s		and Grains. ² Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM	M=Reduced Matrix, CS=Covered or Coated S	Indicators for Problematic Hydric Soils ³ :
lydric Soil Indicators: (Applicable to a		1 cm Muck (A9) (LRR C)
Histosol (A1)	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Histic Epipedon (A2) Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	\underline{X} 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)	³ 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):		
Туре:		and the second se
1 ypc.		
Depth (inches):		Hydric Soil Present? Yes <u></u> No
Depth (inches):		Hydric Soil Present? Yes <u></u> No
Depth (inches): Remarks: YDROLOGY		Hydric Soil Present? Yes <u></u> No
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:		
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi		Secondary Indicators (2 or more required)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Vift Deposits (B3) (Riverine)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 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) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) X Drift Deposits (B3) (Riverine) X Drainage Patterns (B10)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 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 Liv	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ring Roots (C3) Dry-Season Water Table (C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) // ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Statement 	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) 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) ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Statement 	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) a) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) 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) ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) 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) ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) a) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) 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) ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) a) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)

Clear Lake Clu SAINSO

Project/Site:	City/County: Carhonile Monteres Sampling Date: 7-24-14
Applicant/Owner: MRNPCA	State: CA Sampling Point:9
Investigator(s): Dom Davis, Moth John	Solon, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%):
Subregion (LRR):	Lat: 36° 46 6.49 1 Long: 121° 46' 1.66' Datum: NAD83
Soil Map Unit Name:	NWI classification: Freshusier -Bnd
Are climatic / hydrologic conditions on the site typical for this the Are Vegetation, Soil, or Hydrology signate Vegetation, Soil, or Hydrology national SUMMARY OF FINDINGS – Attach site map site	nificantly disturbed? Are "Normal Circumstances" present? Yes X No
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	V Is the Sampled Area
Remarks:	

VEGETATION - Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test works	heet:	
Tree Stratum (Plot size:) 1)			Number of Dominant Spe That Are OBL, FACW, or		(A)
23			Total Number of Domina Species Across All Strata		(B)
4		= Total Cover	Percent of Dominant Spe That Are OBL, FACW, or		(A/B)
1			Prevalence Index works	sheet:	
2			Total % Cover of:	Multiply b	oy:
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5			FAC species	x 3 =	
		= Total Cover	FACU species		
Herb Stratum (Plot size: 5×5_)	-		UPL species		
1. Atviplex Sp	3		Column Totals:		
2. Unknown 1	2	1			(=,
3. Millite Jobue militra	-1	N	Prevalence Index =	= B/A =	
4			Hydrophytic Vegetation	Indicators:	
5			Dominance Test is >	·50%	
6			Prevalence Index is :	≤3.0 ¹	
7			Morphological Adapt	tations ¹ (Provide su	porting
8			data in Remarks	or on a separate sh	neet)
	10	= Total Cover	Problematic Hydroph	nytic Vegetation ¹ (E	xplain)
Woody Vine Stratum (Plot size:)		- rotal Cover			
1		- I	¹ Indicators of hydric soil a	and wetland hydrol	ogy must
2			be present, unless distur	bed or problematic.	
5071=3 2071=1.2		= Total Cover	Hydrophytic Vegetation	1.1	
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust		No	_
Remarks:	1	i al	1		
Vegetation Significanting	distu	bed - active	vegetation mai	Nipulatio	10
is a martindust	is or	Litin Sides	of channel		

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator	or confirm the ab	sence of indicators.)	
Depth Matrix Redox Features			
inches) Color (moist) % Color (moist) % Type ¹		ure Ren	marks
3-18 51231	Silty	clay	
Energy O-Conservation D-Depletion DM-Deduced Matrix CS-Coursed or Cost	ad Sond Crains	² Location: PL=Pore Li	ining M-Matrix
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coate ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		cators for Problematic H	
_ 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)	2
_ Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)		Red Parent Material (TF2	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)		Other (Explain in Remark	(5)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)			
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	3Indi	icators of hydrophytic veg	netation and
Thick Dark Surface (A12) Redox Depressions (F8)		etland hydrology must be	
Sandy Mucky Mineral (S1) Vernal Pools (F9)		nless disturbed or problem	
Sandy Gleyed Matrix (S4)	- u	liess disturbed of problem	natio.
Restrictive Layer (if present):			
지수는 사람이 가지 않는 것이 같아요. 이 것이 않아요. 이 것이 같아요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 것이 않아요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 것이 않아요. 이 것이 않아요. 이 있어요. 이 있 이 있어요. 이 있			
Туре:			. ×
Depth (inches):	Hydr	ic Soil Present? Yes	<u> </u>
Depth (inches): Remarks: YDROLOGY	Hydr	ic Soil Present? Yes	<u>No X</u>
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:	Hydr		
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Hydr	Secondary Indicators (2	or more required)
Depth (inches):	Hydr	Secondary Indicators (2 Water Marks (B1) (I	or more required)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Hydr	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits	or more required) Riverine) (B2) (Riverine)
Depth (inches):	Hydr	Secondary Indicators (2 Water Marks (B1) (I	or more required) Riverine) (B2) (Riverine)
Depth (inches):	Hydr	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits	or more required) Riverine) (B2) (Riverine) (Riverine)
Depth (inches):		Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits Drift Deposits (B3) (Drainage Patterns (or more required) Riverine) (B2) (Riverine) (Riverine) (B10)
Depth (inches):	Living Roots (C3)	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits Drift Deposits (B3) (Drainage Patterns (or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2)
Depth (inches):	Living Roots (C3)	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2)
Depth (inches):	Living Roots (C3)	Secondary Indicators (2 Water Marks (B1) (I Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) n Aerial Imagery (CS
Depth (inches):	Living Roots (C3)	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9 03)
Depth (inches):	Living Roots (C3)	Secondary Indicators (2 Water Marks (B1) (I Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9 03)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6)	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9 03)
Depth (inches):	Living Roots (C3) (4) ed Soils (C6)	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9 03)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6)	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (CS D3) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6)	Secondary Indicators (2 Water Marks (B1) (F Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (CS D3) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6) Wetland Hy	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f drology Present? Yes	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (CS D3) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6) Wetland Hy	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f drology Present? Yes	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (CS D3) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6) Wetland Hy	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f drology Present? Yes	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (CS D3) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6) Wetland Hy	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f drology Present? Yes	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6) Wetland Hy	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f drology Present? Yes	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (CS D3) D5)
Depth (inches):	Living Roots (C3) 4) ed Soils (C6) Wetland Hy	Secondary Indicators (2 Water Marks (B1) (f Sediment Deposits Drift Deposits (B3) (Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible o Shallow Aquitard (D FAC-Neutral Test (f drology Present? Yes	or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) D5)

Project/Site:GWR	City/County: (astrong 1/2/14) Sampling Date: 7-24-14
Applicant/Owner: MRWPCA	State: CA Sampling Point:O
Investigator(s): Jam, Davis, Matt Jumn	Sov Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):
Subregion (LRR):	Lat: 36°46' 6.60 / Long: 121°46 1.08 / Datum: NAD 83
Soil Map Unit Name:	NWI classification: Fire by water Time
Are climatic / hydrologic conditions on the site typical for t Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site map	this time of year? Yes No (If no, explain in Remarks.) _ significantly disturbed? Are "Normal Circumstances" present? Yes X No _ naturally problematic? (If needed, explain any answers in Remarks.) p showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X Is the Sampled Area No X within a Wetland? Yes No X
Remarks: 3rd year of drought	

VEGETATION – Use scientific names of plants.

March March 1997	Absolute	Dominant Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:) 1)			Number of Dominant Species That Are OBL, FACW, or FAC: (A	A)
2 3		· · · · · · · · · · · · · · · · · · ·	Total Number of Dominant Species Across All Strata: (E	B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A	A/B)
1			Prevalence Index worksheet:	
2			Total % Cover of: Multiply by:	
.3			OBL species x 1 =	
4			FACW species x 2 =	
5			FAC species x 3 =	
0		= Total Cover	FACU species x 4 =	
Herb Stratum (Plot size: 5×5)			UPL species x 5 =	
1. LINKNAN AJ	10	1	Column Totals: (A)	(B)
2. UNKNOWN 2	1	N		(0)
3			Prevalence Index = B/A =	
4			Hydrophytic Vegetation Indicators:	
5			Dominance Test is >50%	
6			Prevalence Index is ≤3.0 ¹	
7			Morphological Adaptations ¹ (Provide supporting	g
8		an annual a surger	data in Remarks or on a separate sheet)	
··		= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size:)				
1			¹ Indicators of hydric soil and wetland hydrology mus	st
2.			be present, unless disturbed or problematic.	
		= Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cove	r of Biotic C	rust	Present? Yes No	
Remarks:			1	
leg manipulated is nor only	N'E INC	here		

OIL			Sampling Point:
Profile Desc	cription: (Describe to the	depth needed to document the indicator or	confirm the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	<u>Color (moist)</u> % Type ¹	Loc ² Texture Remarks
0-18	54R-3/1		Siltyclan
	ويتسار فتحت المستحد	÷	
Tunni C-C		DM-Deduced Matrix CC-Covered or Costed I	Sand Crains ² Lasation: DL-Dara Lining M-Matrix
		RM=Reduced Matrix, CS=Covered or Coated S	Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
T 2006-004		all LRRs, unless otherwise noted.)	
Histosol		Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
_ Histic E	pipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
_ Black Hi	istic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydroge	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified	d Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Mu	uck (A9) (LRR D)	Redox Dark Surface (F6)	
	d Below Dark Surface (A11)		
	ark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
and the second sec	/lucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
	Gleyed Matrix (S4)		unless disturbed or problematic.
	Layer (if present):		
	o produce a sub-		
Type:			and the second
Depth (in	ches):		Hydric Soil Present? Yes No
YDROLO	GY		
	Section and the section of the secti		
	drology Indicators:	a sa den a su den ante de	
Primary India	cators (minimum of one requ	uired; check all that apply)	Secondary Indicators (2 or more required)
Surface	Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Wa	ater Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturati		Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
	farks (B1) (Nonriverine)		
CI.I.I.I.I.I	nt Deposits (B2) (Nonriveri		그 같은 그 그 그는 것은 김성동 방법이 가지 않는 것 같은 것을 가지 않는 것 같은 것을 가지 않는 것이다.
Drift De	posits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface	Soil Cracks (B6)	Recent Iron Reduction in Tilled S	Soils (C6) Saturation Visible on Aerial Imagery (C9
Inundati	ion Visible on Aerial Imagery	(B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
	Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
ield Obser			
		. V	
Surface VVat	er Present? Yes	No Depth (inches):	·
Nater Table	Present? Yes	No Depth (inches):	
Saturation P	resent? Yes	No 🗶 Depth (inches):	Wetland Hydrology Present? Yes No
	pillary fringe) corded Data (stream gauge	, monitoring well, aerial photos, previous inspe	
Remarks:			

Project/Site:	City/County: Marin	4 Monterey	Sampling Date:
Applicant/Owner: MRWPCA		State: CA	Sampling Point:
Investigator(s): dami Davis, Matt	SonnSon Section, Township, R	ange:	
Landform (hillslope, terrace, etc.): Dalle of bev	Mo Local relief (concave	, convex, none): <u>Conc</u>	<u>uve</u> Slope (%): 0
Subregion (LRR): LP.P.C	Lat: 36 42 23,11 A	Long: 121° 44' 5	7:26"w Datum: MAD83
Soil Map Unit Name: Metz Complex		NWI class	ification:
Are climatic / hydrologic conditions on the site typical for the Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site map	_ significantly disturbed? Are _ naturally problematic? (If r	needed, explain any ans	s" present? Yes X No No wers in Remarks.)
	No V Is the Sample No V Within a Wetla		No_X
Remarks: Dacies de of mad verm-n	storic riporian-		

VEGETATION – Use scientific names of plants.

The Oliver (Distribution	Absolute	and the second se	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1)		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:
2			Total Number of Dominant Species Across All Strata: (B)
4			
Sapling/Shrub Stratum (Plot size:)		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4.			FACW species x 2 =
5			FAC species x 3 =
	-	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: <u>5×5</u>)	-		UPL species x 5 =
1. P. (OSSICO MAYA		N	Column Totals: (A) (B)
2. Unknown of	000	N	
3. COALM MOUVIERUM	5	Y	Prevalence Index = B/A =
4. Picris echibides	1	N	Hydrophytic Vegetation Indicators:
5. Conviga canadinais	4	1	Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	00	_ = Total Cover	
1.			¹ Indicators of hydric soil and wetland hydrology must
2			be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cove	er of Biotic C	rust	Vegetation Present? Yes No
Remarks:			1
1043 25 dead for im			

US Army Corps of Engineers

	a state and a state of the	
Sampling	Doint:	11
	POIL	

4

Profile Description: (Describe to the dep Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
0-18 1048413		Icany silf
		· · · · · · · · · · · · · · · · · · ·
	·	the second s
	· · ()	
	· ·	
¹ Type: C=Concentration, D=Depletion, RM		
Hydric Soil Indicators: (Applicable to al	I LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
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)	³ 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):		
Туре:		
Depth (inches):		
Deptir (increa).		Hydric Soil Present? Yes No
		Hydric Soil Present? Yes No
Remarks:		Hydric Soil Present? Yes No
Remarks:		Hydric Soil Present? Yes No
Remarks: IYDROLOGY Wetland Hydrology Indicators:		
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; check all that apply)	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	ed; check all that apply) Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ed; 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)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	ed; 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)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ed; 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)iving Roots (C3) Dry-Season Water Table (C2)
Remarks: 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)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)) Oxidized Rhizospheres along L	Secondary Indicators (2 or more required) 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)
Remarks: 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)	ed; 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	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Crayfish Burrows (C8)
Remarks: IYDROLOGY 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)	ed; 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	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9)
Remarks: 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)	ed; 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 37) 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) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Remarks: IYDROLOGY 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 (E Water-Stained Leaves (B9) Field Observations:	ed; 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 37) 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) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Remarks: IYDROLOGY 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 (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	ed; 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 37) 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) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 Saturation Present? Yes	ed; 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 37) 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) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, m	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, m	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, m	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 Saturation Present? Yes Describe Recorded Data (stream gauge, m	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, m	ed; 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 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)

Project/Site: GWP	City/County: Mon	teres caust 1	_ Sampling Date: 7-24-14
Applicant/Owner: MRW PCA		State: CA	_ Sampling Point:
Investigator(s): Jami Davis, Matt	On MSUA Section, Township, R		
1511	Local relief (concave		(AVE Slope (%): _)
Subregion (LRR):	Lat: 36°42'24.99	(1000: 21°411'5	3.12"/41 Datum: NAN83
Soil Map Unit Name: Mucho SH Logen 10 F	02 90 Sloves	NW/ classifi	instion: Freehugter From LeVel
Are climatic / hydrologic conditions on the site typical for t	this time of year? Yes No.	X (If no explain in)	Pomorke)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	"Normal Circumstances"	property Vec X No
Are Vegetation, Soil, or Hydrology			
		eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point	locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No X	Ania	
Hydric Soil Present? Yes	No Is the Sample		A V
Wetland Hydrology Present? Yes	No within a Wetla	ind? Yes	No
/EGETATION – Use scientific names of pla	ints.		
Tree Stratum (Plot size: 10x10)	Absolute Dominant Indicator	Dominance Test work	ksheet:
1. Oliver of the first of the f	40 J FACW	Number of Dominant S	
2	- <u></u>	That Are OBL, FACW,	or FAC: (A)
3		Total Number of Domin	14
4		Species Across All Stra	ata: (B)
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant S That Are OBL, FACW,	
1		Prevalence Index wor	rksheet:
2		Total % Cover of:	Multiply by:
3	the second second	OBL species	x 1 =
4.		FACW species	x 2 =

Sapling/Shrub Stratum (Plot size:)	Y	_ = Total Cover	Percent of Dominant Sp That Are OBL, FACW, o		(A/B)
1 2			Prevalence Index work Total % Cover of:		
3	-	it and it is a second	OBL species	x 1 =	
4			FACW species		
5			FAC species		
Herb Stratum (Plot size: 5+5)		_ = Total Cover	FACU species		
1. MENDOUS -WM-E	2	Y FACU	UPL species		
2. Pauponon monspeliensis	7	Y FAID	Column Totals:	(A)	(B)
3. Heddyothera avandiana	3	Y NL	Prevalence Index	= B/A =	
4. Beudognaphklium	1	N FACY	Hydrophytic Vegetation	n Indicators:	
5	1		Dominance Test is >	>50%	
5			Prevalence Index is	≤3.0 ¹	
7			Morphological Adap data in Remarks	tations ¹ (Provide si or on a separate si	upporting heet)
Woody Vine Stratum (Plot size:)	10	= Total Cover	Problematic Hydrop	hytic Vegetation ¹ (E	Explain)
1) 2			¹ Indicators of hydric soil be present, unless distur	and wetland hydrol bed or problematic	ogy must
5070=5 2070=2		_ = Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum % Cover	r of Biotic C	Crust	Vegetation Present? Yes	No X	
Remarks:			1	/	

0

	1-	
moling Point:	1	

rofile Description: (Describe to the de	pth needed to document the indicator or con	firm the absence of indicators.)
Depth <u>Matrix</u>	Color (moist) % Type ¹ Loc ²	Texture Remarks
nches) Color (moist) %	Color (moist) % Type ¹ Loc	
2.54512		Sand
ype: C=Concentration, D=Depletion, RI	M=Reduced Matrix, CS=Covered or Coated San	d Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
ydric Soil Indicators: (Applicable to a		
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	Reduced Vertic (F18)
_ Black Histic (A3)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
_ Hydrogen Sulfide (A4)	Depleted Matrix (F3)	Other (Explain in Remarks)
Stratified Layers (A5) (LRR C) 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)	³ 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.
lestrictive Layer (if present):		
Туре:		
Type:		A DESCRIPTION OF A DESC
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one requi	red; check all that apply) Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one requi	red; check all that apply)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1)	red; check all that apply) Salt Crust (B11)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2)	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one requi 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) e) Oxidized Rhizospheres along Living	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi 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) e) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Living	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil (B7) Thin Muck Surface (C7)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	red; check all that apply)	Secondary Indicators (2 or more required)

Project/Site:	City/County:	2/2 00 Sampling Date:4-14
Applicant/Owner: MRWPCA		State: Sampling Point:3
Investigator(s):		nge:
	Local relief (concave, o	convex none): Slone (%):
Subregion (LRR):	Lat: 36042'24.03 N	Long: <u>/2/° 44' 54.95' u)</u> Datum: <u>NAD83</u>
Soil Map Unit Name: WATER		NWI classification:
Are climatic / hydrologic conditions on the site typ		1
Are Vegetation, Soil, or Hydrology		'Normal Circumstances" present? Yes Ves
Are Vegetation, Soil, or Hydrolog		eeded, explain any answers in Remarks.)
		성명 성영 이번 것 같은 것 같은 것 같이 많이 많이 했다.
SUMMARY OF FINDINGS – Attach s	te map snowing sampling point in	ocations, transects, important features, etc.
	No Is the Sampled	Area
Hydric Soil Present? Yes _	No X within a Wetlan	
	No	
Remarks:	vicessible - Sand-1 u	1 MELOSS PROSSEL
Vipavian on back Sid	a topun	- willing
MPANIAN ON WALL CIL	2 OF DEMA - NO DOL	1 Same as point p
VEGETATION – Use scientific names	of plants.	
-	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Territoria versitation (Contractore)	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Statis instruction		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:	_)	
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x 1 = FACW species x 2 =
4		FAC w species x 2 FAC species x 3 =
5	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		UPL species x 5 =
1. Amindo donaix		Column Totals: (A) (B)
	2613.	
3. Conyta		Prevalence Index = B/A =
4. Melibrus		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) = Total Cover	
1		¹ Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
٤		Hydrophytic
£	= Total Cover	
% Bare Ground in Herb Stratum		Vegetation Present? Yes No

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amnling	Point.	12

Profile Description: (Describe to the Depth Matrix	Redox F			
(inches) Color (moist) %	Color (moist)	<u>% Type</u> 1 		exture Remarks
Type: C=Concentration, D=Depletion, I lydric 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)		se noted.) (S5) x (S6) Mineral (F1) Matrix (F2) ix (F3)	the second s	² Location: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)
 Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) 	Depleted Dark Redox Depres Vernal Pools (I	sions (F8)		dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present):				
Type: Depth (inches): Remarks:			Нус	dric Soil Present? Yes No
Depth (inches):			Нус	dric Soil Present? Yes No
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators:	lired; check all that apply)		Нус	dric Soil Present? Yes No Secondary Indicators (2 or more required)
Depth (inches):	Salt Crust (B Biotic Crust (I Aquatic Inver Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of P Recent Iron F (B7) Thin Muck Su	B12) tebrates (B13) lfide Odor (C1) zospheres along I Reduced Iron (C4 Reduction in Tilled	Living Roots (C3	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches):	Salt Crust (B* Biotic Crust (I Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Recent Iron F Recent Iron F Other (Explain Other (Explain Depth (inche No Depth (inche	B12) tebrates (B13) Ifide Odor (C1) zospheres along I Reduced Iron (C4 Reduction in Tilled urface (C7) n in Remarks) es): es):	Living Roots (C3) I Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site:	City/County: Mon 2/2 Co Sampling Date: 124-14
Applicant/Owner: MRWPCA	State: Sampling Point:
Investigator(s): CIM Davis Wash Johnson	Section, Township, Range:
Landform (hillslope, terrace, etc.): Pane of Channel	Local relief (concave, convex, none): Slope (%):
Subregion (LRR): Lat: Lat:	6422614 N Long: 1210 44 5147W Datum: NAL293
Soil Map Unit Name: MUCHO STUT LOAM, 0-2	To slope NWI classification: 1/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes X No	within a Wetland? Yes No No
Remarks:	
VEGETATION – Use scientific names of plants.	

The Ohn Last (DL L)	Absolute		t Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:) 1)			1	Number of Dominant Species	(A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4		120.0.0	يتحصيني	Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 5×5)	-	= Total Co	over	That Are OBL, FACW, or FAC:	(A/B)
1. Salix lasiolepis	5	V	FACW	Prevalence Index worksheet:	
2		-/-		Total % Cover of: Multiply by	<i>.</i>
3				OBL species x 1 =	
4				FACW species x 2 =	
5				FAC species x 3 =	
	5	= Total Co	over	FACU species x 4 =	
Herb Stratum (Plot size: 545_)		· · · · · · ·		UPL species x 5 =	
1. Pal-portun monspeliensis	40	Y_	FACW	Column Totals: (A)	
2. Nettic	2	N			
3. <u>SCHPUS</u>	1	N		Prevalence Index = B/A =	
4. Pseudo gnaphalina	3	N		Hydrophytic Vegetation Indicators:	
5. Melinotes white		N		A Dominance Test is >50%	
6. Rumex Sp.	40	Y	FAC	Prevalence Index is ≤3.0 ¹	
7. spotted white		()()		Morphological Adaptations ¹ (Provide sup	porting
8			<u>.</u>	data in Remarks or on a separate she	
	88	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Ex	piain)
Woody Vine Stratum (Plot size:)				Indication of boots and and an iteration in	a.d.u.a
1				¹ Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic.	gy must
		= Total Co	over	Hydrophytic	
% Bare Ground in Herb Stratum % Cover	1.			Vegetation Present? Yes <u>No</u> No	
Remarks:				1	

			11/4
mpl	ina	Point:	100

OIL		1 h	A			2.29	a constante	Sampling Point: _/4
Profile Des	cription: (Describe	to the depth			dicator	or confirm	n the absence of	indicators.)
Depth	Matrix			x Features	- 1	. 2	+	Descenter
(inches)	Color (mojst)	<u>%</u>	Color (moist)		Type ¹	_Loc ²		Remarks
0-7	107R412	100%					_sand	
1-18	104RU12	75%	2.5423/6	25%	C	M	Sand	
	1		1					
					_			
		-				· <u></u> ·		
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					-			
			Destroyed Materia CC	Caused	or Cont	- Cond Cu	2	on: Di =Doro Lining M=Matrix
	Concentration, D=Dep Indicators: (Applic					ed Sand Gi		on: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
_ Histoso			A Sandy Red		,			k (A9) (LRR C)
	Epipedon (A2)		Stripped Ma					k (A10) (LRR B)
	listic (A3)		Loamy Muc		(E1)		· · · · · · · · · · · · · · · · · · ·	Vertic (F18)
	en Sulfide (A4)		Loamy Gley					nt Material (TF2)
	ed Layers (A5) (LRR (C)	Depleted M		/			plain in Remarks)
	luck (A9) (LRR D)	-,	Redox Dark		-6)			
the second second	ed Below Dark Surfac	e (A11)	Depleted Da					
	ark Surface (A12)		Redox Dep				³ Indicators of	hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pool				wetland hyd	drology must be present,
	Gleyed Matrix (S4)						unless distu	urbed or problematic.
Restrictive	Layer (if present):	1						
Type:							Law Dear	
Depth (in	nches);		<u> </u>				Hydric Soil Pr	esent? Yes X No
Remarks:								
YDROLO	OGY							
	vdrology Indicators:							
	icators (minimum of c		check all that appl	v)			Seconda	ry Indicators (2 or more required)
	e Water (A1)		Salt Crust					er Marks (B1) (Riverine)
			Biotic Crus					iment Deposits (B2) (Riverine)
	/ater Table (A2)				(P12)			Deposits (B3) (Riverine)
	tion (A3)	(m. n.)	Aquatic In				and the second	김 영화 가슴을 다 한 것 것 것 같은 것이 없다.
	Marks (B1) (Nonriver		Hydrogen			Living De	and the second	nage Patterns (B10)
	ent Deposits (B2) (No		Oxidized F		66A **** 1,5	집안 안 이 먹는 것이?		Season Water Table (C2)
	eposits (B3) (Nonrive	rine)	Presence			Sector Sector		fish Burrows (C8)
	e Soil Cracks (B6)		Recent Irc			ed Solls (Cl		Iration Visible on Aerial Imagery (CS
	tion Visible on Aerial	Imagery (B7		Surface (0				llow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in Rer	marks)	- 1	FAC	-Neutral Test (D5)
Field Obse				abarly				
193256			lo <u>V</u> Depth (in					
Water Table		1	lo <u> </u>		ñ	-		Ven V No
Saturation I (includes ca	Present?) apillary fringe)	res X N	lo Depth (in	cnes):	9	Wet	iand Hydrology F	Present? Yes <u> </u>
Describe R	ecorded Data (stream	n gauge, mor	nitoring well, aerial	photos, pre	evious in	spections),	, if available:	
Description	12 1 1 1 1 2 1 1 F			_		_		
Remarks:	0							
dam	peoin							
0.011	1							

Project/Site:	City/County:	MUNTER 1 Lo	Sampling Date:44-14
Applicant/Owner: MRWPCA		State: CA	Sampling Point:5
Investigator(s):	Math Johnson Section, Tov	vnship, Range:	
Landform (hillslope, terrace, etc.):	Pank of channel Local relief	(concave, convex, none):	Slope (%):
Subregion (LRR):	Lat: 36 42 26	25 1/ Long: 121°44'5	5121" W Datum: 14083
Soil Map Unit Name: MUCHO 51	215T 10AM, 0-290 SLOP	5 NWI class	ification: <u>N/A</u>
Are climatic / hydrologic conditions on the	site typical for this time of year? Yes	No (If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hy	vdrology significantly disturbed?	Are "Normal Circumstances	s" present? Yes <u>X</u> No
Are Vegetation N, Soil N, or Hy		(If needed, explain any ans	
SUMMARY OF FINDINGS - Atta	ach site map showing sampling) point locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present?	Yes No X		
Hydric Soil Present?	Yes No X Is the	e Sampled Area n a Wetland? Yes	No X
Wetland Hydrology Present?	Yes No	ha wetlandr fes_	NO
Remarks:			

VEGETATION – Use scientific names of plants.

I

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksh Number of Dominant Spec	
1.,			That Are OBL, FACW, or	
2			Total Number of Dominan	
3			Species Across All Strata:	(B)
4		= Total Cover	Percent of Dominant Spec	cies FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)				
1			Prevalence Index works	
2				Multiply by:
3	. <u> </u>		OBL species	x 1 =
4		فيتسك فتست	FACW species	
5		·	FAC species	
		= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)			UPL species	x 5 =
1			Column Totals:	(A) (B)
23			Prevalence Index =	B/A =
4			Hydrophytic Vegetation	Indicators:
5			Dominance Test is >5	50%
6			Prevalence Index is ≤	3.0 ¹
7		<u></u>	Morphological Adapta data in Remarks o	ations ¹ (Provide supporting r on a separate sheet)
8			Problematic Hydrophy	
Woody Vine Stratum (Plot size:)		= Total Cover		
			¹ Indicators of hydric soil a	nd wetland hydrology must
1 2			be present, unless disturb	
		= Total Cover	Hydrophytic	
		C. A. C. LANSING	Vegetation	
% Bare Ground in Herb Stratum % Cove	r of Biotic Cr	rust	Present? Yes_	No
Remarks: Unvegetated				

			10
Samo	Director P	A	12

Depth <u>Matrix</u> inches) Color (moist) %	Color (moist)	Features % Ty	vpe ¹ _Loc	2 Text	ure	Remarks
D-18 10484/2				Sav		Normarito
210 1011 12						
······································		(-)		<u> </u>		
				- 10-		
t						
······································						
Type: C=Concentration, D=Depletion, RM=			Coated San			_=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all I	RRs, unless otherw	ise noted.)		India	cators for Prob	lematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox	(S5)			1 cm Muck (A9)	(LRR C)
Histic Epipedon (A2)	Stripped Matr	ix (S6)			2 cm Muck (A10	E 4
Black Histic (A3)	Loamy Mucky				Reduced Vertic	
_ Hydrogen Sulfide (A4)	Loamy Gleye)		Red Parent Mat	
Stratified Layers (A5) (LRR C)	Depleted Mat			_	Other (Explain in	n Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark S					
Depleted Below Dark Surface (A11)	Depleted Darl		7)		Second Second	
Thick Dark Surface (A12)	Redox Depres					hytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools	(F9)				must be present,
Sandy Gleyed Matrix (S4)				ur	nless disturbed o	or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):				Livela		Yes No.
emarks:				Hyun	ic Soil Present?	
					c Soil Present?	
YDROLOGY					c Soil Present?	
YDROLOGY Vetland Hydrology Indicators:	; check all that apply)					cators (2 or more required)
YDROLOGY Vetland Hydrology Indicators:	; check all that apply) Salt Crust (E	311)			Secondary Indi	
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)					Secondary Indi	cators (2 or more required)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust	(B12)	13)		Secondary Indi Water Mari Sediment [cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (E Biotic Crust Aquatic Inve	(B12) rtebrates (B			Secondary Indi Water Mari Sediment [Drift Depos	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si	(B12) rtebrates (B ulfide Odor (C1)		Secondary India Water Mari Sediment I Drift Depos X Drainage F	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10)
YDROLOGY Vetland 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 (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	(B12) rtebrates (B ulfide Odor (izospheres a	C1) along Living		Secondary India Water Mart Sediment I Drift Depos Drainage F Dry-Seaso	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2)
YDROLOGY Vetland 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)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc	C1) along Living on (C4)	Roots (C3)	Secondary India Water Mart Sediment I Drift Depos Drainage F Dry-Seaso Crayfish Bu	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8)
YDROLOGY Vetland 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)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in	C1) along Living on (C4)	Roots (C3)	Secondary India Water Mart Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bi Saturation	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C
YDROLOGY Vetland 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	 Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S 	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7)	C1) along Living on (C4) n Tilled Soils	Roots (C3)	Secondary Indi Water Mari Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Ac	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required 	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7)	C1) along Living on (C4) n Tilled Soils	Roots (C3)	Secondary Indi Water Mari Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Ac	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required 	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3)	Secondary Indi Water Mari Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Ac	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required 	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7)	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3)	Secondary Indi Water Mari Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Ac	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart	C1) along Living on (C4) n Tilled Soils ks)	Roots (C3)	Secondary Indi Water Mari Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Ac	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es):	C1) along Living on (C4) n Tilled Soils ks)	Roots (C3)	Secondary Indi Water Mari Sediment I Drift Depos X Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Ac	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al 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? Yes N Nater Table Present? Yes N	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla No < Depth (inch No < Depth (inch	(B12) rtebrates (B ulfide Odor (izospheres a Reduced Irc Reduction in urface (C7) in in Remart es): es): es):	(C1) along Living on (C4) n Tilled Soils ks)	Roots (C3) s (C6) Wetland Hyd	Secondary India	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C quitard (D3) al Test (D5)

Applicant/Owner:	(P)	State: Sampling Point: _ 1 6
nvestigator(s):	15 MALANDAD	Section, Township, Range:
andform (hillslope, terrace, etc.):	bank	_ Local relief (concave, convex, none): CONCAVE Slope (%):
Subregion (LRR):	Lat:	36°41'8.53'N Long: 121° UO'24"12 4) Datum: NAD 83
Soil Map Unit Name: CROPLEY	SILTY CLAY, 0-2	% SLOPES NWI classification: 1/14
ro olimatia / hudrolagia conditiona en l	New star to start the start strength of the	
we Vegetation \underline{N}_{1} , Soil \underline{N}_{2} , or	Hydrology significantly	ly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation \underline{N}_{1} , Soil \underline{N}_{2} , or	Hydrology significantly	
we Vegetation \underline{N} , Soil \underline{N} , or vegetation \underline{N} , Soil \underline{N} , or vegetation \underline{N} , Soil \underline{N} , or	r Hydrology <u>//</u> significantly r Hydrology <u>//</u> naturally pr	ly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation \underline{N} , Soil \underline{N} , or Are Vegetation \underline{N} , Soil \underline{N} , or	r Hydrology <u>//</u> significantly r Hydrology <u>//</u> naturally pr	y disturbed? Are "Normal Circumstances" present? Yes No roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Are Vegetation <u>,</u> Soil <u>,</u> or SUMMARY OF FINDINGS – A	Hydrology <u>N</u> significantly Hydrology <u>N</u> naturally pr Attach site map showing	Are "Normal Circumstances" present? Yes No roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc. Is the Sampled Area
Are Vegetation , Soil , Soil , or Are Vegetation , Soil , or SUMMARY OF FINDINGS – A Hydrophytic Vegetation Present?	Hydrology <u>N</u> significantly Hydrology <u>N</u> naturally pr Attach site map showing Yes <u>No K</u>	y disturbed? Are "Normal Circumstances" present? Yes No roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:	T OL-1		Dominant Indicator	Dominance Test worksheet:	
3.	1				: (A)
4.					/ (В)
Sapling/Shrub Stratum (Plot size:	4			Percent of Dominant Species	
2.	Sapling/Shrub Stratum (Plot size:)		Total Cover	That Are OBL, FACW, or FAC	: (A/B
3.	1			Prevalence Index worksheet	
4.				Total % Cover of:	Multiply by:
5.				OBL species	x 1 =
Herb Stratum (Plot size:) = Total Cover FACU species x 4 = 1 1 1 Column Totals:(A)(B) 2 1 Column Totals:(A)(B) 3 1 Column Totals:(A)(B) 3 1	4			FACW species	x 2 =
Herb Stratum (Plot size:) 1	5			FAC species	x 3 =
1. Con 220 Canademsis 1 Column Totals: (A) (B) 2. Maiva 1 Column Totals: (A) (B) 3. 1 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 4. 1 Dominance Test is >50% Prevalence Index is <3.0°		F	Total Cover	FACU species	x 4 =
2. Malva	Herb Stratum (Plot size:)	1		UPL species	x 5 =
3.	1. Univer canademisis			Column Totals:	(A) (B)
4. <u>mach - dlad unidun hable</u> <u>SU75</u> / <u>ML</u> Hydrophytic Vegetation Indicators: 5				and the second second second	
5.	Thack date ide belate	719			
6.		_50/3_	Y NL		cators:
6. Prevalence Index is \$3.0° 7. Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 8.	5		and the second se		
8.	b				
Woody Vine Stratum (Plot size:)				Morphological Adaptations	¹ (Provide supporting
Woody Vine Stratum (Plot size:)	8				
2. be present, unless disturbed or problematic. 2.	Woody Vine Stratum (Plot size:)	52 =	Total Cover		egetation (Explain)
2. be present, unless disturbed or problematic. 2.	1			¹ Indicators of hydric soil and w	etland hydrology must
% Bare Ground in Herb Stratum % Cover of Biotic Crust Vegetation Present? Yes No X		1000		be present, unless disturbed or	problematic.
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No X			a directo de cha est		
Remarks:	% Bare Ground in Herb Stratum % Cover	of Biotic Crus	t	Present? Yes	No
	Remarks:				

Sampling Point:	1	0

Profile Description: (Describe to the depti	Redox Features	
Depth <u>Matrix</u> (inches) Color (moist) %	Color (moist)%Type1L	Loc ² TextureRemarks
018 ID1R413		10amys1+
<u> </u>		
the second se		
· · · · · · · · · · · · · · · · · · ·		
		2 DI DI DI DI LIGIO IN MARIO
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated S	Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all I		이번 가장 가지 않는 것 같은 것을 받았는 것 같아. 가지 않는 것 같이 가지 않는 것 같이 나라.
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)	³ Indicators of hudronhutic upsetation and
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)		
Restrictive Layer (if present):		
Туре:		and the second state of th
Depth (inches): Remarks:		Hydric Soil Present? Yes No
Remarks:		Hydric Soil Present? Yes No
Remarks:		Hydric Soil Present? Yes <u>No X</u>
Remarks: IYDROLOGY Wetland Hydrology Indicators:		
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required		Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Salt Crust (B11)	
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required 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) 	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) wing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: 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)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Statement 	Secondary Indicators (2 or more required)
Remarks: WDROLOGY 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 (B3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Statement 	Secondary Indicators (2 or more required)
Remarks: 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 Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) 	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY 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 (B3 Water-Stained Leaves (B9) Field Observations:	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) 	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Remarks:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Secondary Indicators (2 or more required)

Project/Site:GWR	City/County: Salines/Monterey Co Sampling Date: 8-5	-14
Applicant/Owner: MRWPCA	State: A Sampling Point: 17	
Investigator(s): Jam Davs, Matt Johnson 9	MUnHession Township, Range:	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): CONCAVE Slope (%):	5
Subregion (LRR):	Lat:	D 83
Soil Map Unit Name: AntiOch VERY FI	E SAWDY LOAM, 0-2 % Softwill classification:	
Are climatic / hydrologic conditions on the site typical for		
Are Vegetation, Soil, or Hydrology		
Are Vegetation N , Soil N , or Hydrology N	naturally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	showing sampling point locations, transects, important features	, etc.
Hydrophytic Vegetation Present? Yes	No X	
Hydric Soil Present? Yes	No X Is the Sampled Area	
Wetland Hydrology Present? Yes	No X within a Wetland? Yes No X	
Remarks: 3rd year of statewide alranghi		ľ

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute %	Dominant Indicator Species? Status	Dominance Test works	2007 2020	
1,	<u>(</u>		Number of Dominant Sp That Are OBL, FACW, o		(A)
2			Total Number of Domina Species Across All Strat		(B)
4			States and the state		
Sapling/Shrub Stratum (Plot size:)		= Total Cover	Percent of Dominant Sp That Are OBL, FACW, o		(A/B)
1			Prevalence Index work	sheet:	
2			Total % Cover of:	Multiply	by:
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5			FAC species	x 3 =	
		= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size:)			UPL species	x 5 =	
1			Column Totals:		
2			Prevalence Index	= B/A =	
4			Hydrophytic Vegetatio		
5			Dominance Test is :		
6			Prevalence Index is	≤3.0 ¹	
7			Morphological Adap		supporting sheet)
8		= Total Cover	Problematic Hydrop	hytic Vegetation ¹ ((Explain)
Woody Vine Stratum (Plot size:)		- Total Cover			
1 2			¹ Indicators of hydric soil be present, unless distur	and wetland hydro	ology must c.
		= Total Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust	Present? Yes	No X	
Remarks:					
Unvegetated					

		1-1
nlina	Point:	17

	epth needed to document the indicator or cont	nirm the absence of indicators.)
Depth <u>Matrix</u> (inches) Color (moist) %	<u>Redox Features</u> Color (moist) % Type ¹ Loc ²	
		Siticlan
3-18 10-123/1		- all clust
,		
		<u>المحمد المحمد المحم</u>
and the second se	The second s	
······································		
	RM=Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
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)	a
Thick Dark Surface (A12)	Redox Depressions (F8)	³ 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):		
Туре:		
21. 22		
Depth (inches):		Hydric Soil Present? Yes No
and the second sec		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches): Remarks: YDROLOGY		Hydric Soil Present? Yes <u>No</u>
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:	ired: check all that anniv)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ		Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ 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) 	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ 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	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)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ 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) 	Secondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ 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	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)
Depth (inches):	 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 	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)
Depth (inches):	 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 	Secondary Indicators (2 or more required)
Depth (inches):	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 (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):	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 (B7) Thin Muck Surface (C7)	Secondary Indicators (2 or more required)
Depth (inches):	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 / (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)
Depth (inches):		Secondary Indicators (2 or more required)

Project/Site:	Ci	ity/County Salings M	onterey co	_ Sampling Date: 85-14
Applicant/Owner:	A		State: (A	Sampling Point:
Investigator(s): Jami Davis Matt Johns	on, Snaelyntession s	ection, Township, Range:		- , , , , , <u>, , , , , , , , , , , , , ,</u>
Landform (hillslope, terrace, etc.): edge &	T E DOMAN	ocal relief (concave, conv	Λ .	QX Slope (%): (00%)
Subregion (LRR):		0°41'2542"N LO		
Soil Map Unit Name: ANTOCH VE	RY FINE SAND	/LOAM. 0-29	65 MWI classifi	
Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydro Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS – Attac	ology $\underline{\mathcal{N}}_{}$ significantly di ology $\underline{\mathcal{N}}_{}$ naturally probl	sturbed? Are "Norr ematic? (If neede	_ (If no, explain in F mal Circumstances" d, explain any answe tions, transects	present? Yes X No ers in Remarks.)
Hydric Soil Present? Y	es No∀ es NoX esX No	Is the Sampled Are within a Wetland?	a Yes	No
Remarks: POtential Waters				

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size:)	% Cover	Dominant Indicator Species? Status	Dominance Test works		
1			Number of Dominant Spe That Are OBL, FACW, or		(A)
2 3			Total Number of Dominal Species Across All Strata		(B)
4		= Total Cover	Percent of Dominant Spe That Are OBL, FACW, or		(A/B)
1,,			Prevalence Index works	sheet:	
2			Total % Cover of:		by:
3			OBL species		
4			FACW species		
5			FAC species		
		= Total Cover	FACU species		
Herb Stratum (Plot size:)			UPL species		
1. Unknown grass	_2_		Column Totals:		
2. Chelseneed	_				(b)
3. Polypogon	1 -		Prevalence Index =	= B/A =	
401_0			Hydrophytic Vegetation	Indicators:	
5			Dominance Test is >	50%	
6			Prevalence Index is :	≤3.0 ¹	
7			Morphological Adapt	ations ¹ (Provide s	upporting
8			data in Remarks of	or on a separate s	sheet)
	4	= Total Cover	Problematic Hydroph	vtic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)					
1	_		¹ Indicators of hydric soil a	ind wetland hydro	ology must
2			be present, unless disturt	bed or problemati	C.
		= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum % Cove	r of Biotic Cr	ust	Vegetation Present? Yes	No	
Remarks:					
Mlo-12in of regetation	dlong	ealge 2:	5% = Notwed	land	

TOTHE DESCRIPT	IOII. (Describe)		needed to docume	nt the indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox F				
	Color (moist)	<u>%</u>	Color (moist)	% Type ¹		Texture	Remarks
	entration D=Den	letion RM=R6	educed Matrix, CS=0	Covered or Coa	ted Sand G	rains. ² Loo	cation: PL=Pore Lining, M=Matrix.
Type: C=Conce	cators: (Applic	able to all LR	Rs, unless otherwi	ise noted.)			for Problematic Hydric Soils ³ :
Histosol (A1			Sandy Redox			1 cm M	Auck (A9) (LRR C)
Histic Epipe	· · · · · · · · · · · · · · · · · · ·		Stripped Matri			the second se	Auck (A10) (LRR B)
Black Histic			Loamy Mucky				ed Vertic (F18)
Hydrogen S			Loamy Gleyed	d Matrix (F2)			arent Material (TF2)
_ Stratified La	yers (A5) (LRR (C)	Depleted Matr			Other	(Explain in Remarks)
	(A9) (LRR D)		Redox Dark S				
	elow Dark Surfac	æ (A11)	Depleted Dark			3	of the standard in second strand stand
	Surface (A12)		Redox Depres				of hydrophytic vegetation and
_ Sandy Muck			Vernal Pools ((F9)			hydrology must be present, listurbed or problematic.
and the second s	ed Matrix (S4)					uniess c	isturbed of problematic.
Restrictive Lay	er (if present):						
Туре:		_	-			Under Cal	Presenta Vac No X
Type: Depth (inches	s):	a ba cl	- -	- OCC		1	Present? Yes <u>No X</u>
Type: Depth (inche: Remarks: NO NOLE	s):	e to st	eqpslope	-assum	le Sa	1	
Type: Depth (incher Remarks: NO NOLE	s):	A1.	eupslope	-assum	u Sa	me as	#17
Type: Depth (inchest Remarks: NO NOLE YDROLOGY Wetland Hydro	s): dug du dug lug		Check all that apply)	- Assuw	u Sa	me as	
Type: Depth (inchest Remarks: NO NOLE YDROLOGY Wetland Hydro	s): dug du (logy Indicators: prs (minimum of c				ue Sa	me as <u>seco</u>	#17 ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
Type: Depth (inchest Remarks: NO NO(e YDROLOGY Wetland Hydro Primary Indicate	s): dug du f logy Indicators: ors (minimum of c ater (A1)		check all that apply)	311)	ue Sa	me as <u>seco</u>	#17 Indary Indicators (2 or more required)
Type: Depth (inchest Remarks: NO NOLE YDROLOGY Vetland Hydro Primary Indicato Surface Wa	s): dug du logy Indicators: ors (minimum of o atter (A1) Table (A2)		check all that apply) Salt Crust (E Biotic Crust	311)	ue Sa	me as <u>seco</u> <u>X</u>	#17 ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
Type: Depth (inchest Remarks: NONOLOGY YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water Saturation (s): dug du logy Indicators: ors (minimum of o atter (A1) Table (A2)	: one required; o	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve	311) (B12)		Me as	#17 ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type: Depth (inchest Remarks: NO NOLE YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark	s): dug du logy Indicators: ors (minimum of o inter (A1) Table (A2) (A3)	: one required; (rine)	<u>check all that apply)</u> Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si	311) (B12) rrtebrates (B13)		Me as <u>Seco</u> <u>X</u> X	#17 <u>indary Indicators (2 or more required)</u> Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: Depth (inchest Remarks: NO NO(e YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D	s): dwg dw logy Indicators: ors (minimum of o tter (A1) Table (A2) (A3) (S (B1) (Nonriver	: one required; (rine) onriverine)	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	311) (B12) ertebrates (B13) ulfide Odor (C1)	g Living Ro	ML GS <u>Seco</u> <u>X</u> X X I ots (C3) _ I	#17 <u>indary Indicators (2 or more required)</u> Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Type: Depth (inchest Remarks: NO NOLE YDROLOGY Wetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D	s): dug dug du logy Indicators: ors (minimum of o nter (A1) Table (A2) (A3) (: one required; (rine) onriverine)	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	311) (B12) ertebrates (B13) ulfide Odor (C1) nizospheres alor	ng Living Ro C4)	ME GS <u>Seco</u> <u>X</u> X ots (C3) _ 1	#17 <u>indary Indicators (2 or more required)</u> Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (inche: Remarks: NONO(e) YDROLOGY Wetland Hydro Primary Indicato Surface Wa Surface Wa Saturation (Vater Mark Sediment D Drift Depos Surface So	s): dug dug du logy Indicators: ors (minimum of o nter (A1) Table (A2) (A3) (: one required; o rine) onriverine) erine)	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	311) (B12) ertebrates (B13) ulfide Odor (C1) nizospheres alor Reduced Iron (Reduction in Til Surface (C7)	ng Living Ro C4)	ML GS Seco S _	#17 ndary Indicators (2 or more required) Vater 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)
Type: Depth (inche: Remarks: NO NO(e YDROLOGY Wetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Surface So Inundation	s): dwg dw logy Indicators: ors (minimum of o ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	: one required; o rine) onriverine) erine)	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	311) (B12) ertebrates (B13) ulfide Odor (C1) hizospheres alor f Reduced Iron (Reduction in Til	ng Living Ro C4)	ML GS Seco S _	#17 ndary 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: Depth (inchest Remarks: NO NO(e YDROLOGY Wetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Surface So Inundation ' Water-Stair	s): dug dug logy Indicators: ors (minimum of o ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	: one required; o rine) onriverine) erine)	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	311) (B12) ertebrates (B13) ulfide Odor (C1) nizospheres alor Reduced Iron (Reduction in Til Surface (C7)	ng Living Ro C4)	ML GS Seco S _	#17 ndary Indicators (2 or more required) Vater 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)
Type: Depth (inchest Remarks: NO NOLE YDROLOGY Wetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Surface So Inundation ' Water-Stair Field Observat	s): dwg dw logy Indicators: ors (minimum of c ater (A1) Table (A2) (A3)	: one required; o rine) onriverine) erine)	check all that apply) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	311) (B12) ertebrates (B13) ulfide Odor (C1) hizospheres alor Reduced Iron (Reduced Iron (Reduction in Til Surface (C7) ain in Remarks)	ng Living Ro C4)	ML GS Seco S _	#17 ndary Indicators (2 or more required) Vater 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)
Depth (inches Remarks: ND NOL IYDROLOGY Wetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Surface So Inundation	s): dug dug dug logy Indicators: ors (minimum of (ater (A1) Table (A2) (A3)	: one required; (rine) onriverine) erine) Imagery (B7)	<u> check all that apply)</u> <u> Salt Crust (E</u> <u> Biotic Crust</u> <u> Aquatic Inve</u> <u> Hydrogen Si</u> <u> Oxidized Rh</u> <u> Presence of</u> <u> Recent Iron</u> <u> Thin Muck S</u> <u> Other (Explance)</u>	B11) (B12) entebrates (B13) ulfide Odor (C1) nizospheres alor f Reduced Iron (Reduction in Til Surface (C7) ain in Remarks) nes):	ng Living Ro C4)	ML GS Seco S _	#17 ndary Indicators (2 or more required) Vater 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)

Remarks:

Project/Site:GWR	(City/County	Salinas	Monterey (Samp	ling Date: 8-	5-14
Applicant/Owner:				State:(A Samp	ing Point:	9
nvestigator(s): Jan Davis Matt phinon Shar	trulle						
andform (hillslope, terrace, etc.): <u>top of bank</u> Subregion (LRR): <u>LPP</u>	at: <u>3</u> 0074 ne of yea	Local relief	(concave, 7.88 [°] N <u>0057</u> No Are *	convex, none): <u>(</u> Long: <u>/2/°4/2</u> NWI cl	ON CANS 18. 82 ⁴ M lassification: _ in in Remarks nces" present)Datum: /A :.) ? Yes	NADE
SUMMARY OF FINDINGS – Attach site map sho	owing	samplin	g point l	ocations, trans	sects, imp	ortant featur	res, etc
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	X	1.	e Sampled in a Wetlar		i N	10 <u>X</u>	
/EGETATION – Use scientific names of plants. Ab	osolute	Dominant	Indicator	Dominance Test	t worksheet:		
	Cover	Species?	Status	Number of Domir That Are OBL, FA		1	_ (A)
2				Total Number of Species Across A		3	_ (B)
4		= Total Cov	ver	Percent of Domin That Are OBL, FA		33%	_ (A/B)
1				Prevalence Inde	x worksheet		
2				Total % Cove			
3				OBL species _			
4				FACW species			
5		- Total Car		FAC species _ FACU species _			
Herb Stratum (Plot size:)		= Total Cov		UPL species			_
2. Brassica nigra	10	<u> </u>	FACW	Column Totals:			(B)
3. Raphanus Usahuus	20	+	NL	Prevalence	Index = B/A	-	
4. Pickis echioids 5. Urtiga dioica sp. hologuicea.	12	N	FACLA	Hydrophytic Veg Dominance T Prevalence I	est is >50%	cators:	
6				Contraction of the second s		¹ (Provide supp	orting
7	17			data in Re	emarks or on	a separate shee	t)
Woody Vine Stratum (Plot size:) 1	15	= Total Cov	/er	¹ Indicators of hyd be present, unles	ric soil and w	etland hydrology	
2		= Total Cov		Hydrophytic Vegetation Present?	Voc	No X	
Remarks:	5000 01			i lesent!	103		

		101
npling	Point:	1)

	ription: (Describe to the depti	Redox Features	
Depth (inches)	Matrix Color (moist) %	Color (moist) % Type ¹ Loc	2 ² Texture Remarks
(OdC/	IDVR22		Sanayday
MR.	1011696		- Janay and
	,		. 0
			and the second design of the
T 0.0			nd Grains. ² Location: PL=Pore Lining, M=Matrix.
		Reduced Matrix, CS=Covered or Coated Sar	Indicators for Problematic Hydric Soils ³ :
5 B. M. B. M.		RRs, unless otherwise noted.)	
Histosol		Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	pipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
the second se	istic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	d Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Mu	JCK (A9) (LRR D)	Redox Dark Surface (F6)	
Deplete	d Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Da	ark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy M	Aucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy C	Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive	Layer (if present):		
Type:			
			Hydric Soil Present? Yes No
Depth (in			Hydric Soil Present? Yes No
Depth (in Remarks:	ches):		Hydric Soil Present? Yes No
Depth (in Remarks: YDROLO	ches):		Hydric Soil Present? Yes No
Depth (in Remarks: YDROLO Wetland Hy	ches):		
Depth (in Remarks: YDROLO Wetland Hy	ches):	; check all that apply)	Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi	ches):	<u>; check all that apply)</u>	
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface	ches): GY drology Indicators: cators (minimum of one required Water (A1)		Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa	ches): IGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati	ches): GY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M	Ches): GY drology Indicators: Cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine)	 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 (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime	ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) 	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)
Depth (in Remarks: YDROLO Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface	ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) 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 Soil 	Secondary Indicators (2 or more required) 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) Is (C6) Saturation Visible on Aerial Imagery (C9)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat	ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion 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 Soil 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat	ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) 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 Soil 	Secondary Indicators (2 or more required) 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) Is (C6) Saturation Visible on Aerial Imagery (C9)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat	Ches): GGY drology Indicators: Cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 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 Soil 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Saturati Water M Saturati Uvater M Sedime Drift De Surface Inundati Water-S Field Obser	Ches): GY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) rvations:	 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) 	Secondary Indicators (2 or more required) 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) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat	ches): GY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N	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) No Depth (inches):	Secondary Indicators (2 or more required) 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) Is (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wal	Ches):	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) 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) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wal Water Table Saturation F	Ches):	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) 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Saurface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wate Saturation F (includes ca	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N Present? Yes N Present? Yes N	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) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wal Water Table Saturation P (includes ca Describe Re	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N Present? Yes N Present? Yes N	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) NoDepth (inches): NoDepth (inches):	Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat Water -S Field Obser Surface Water Surface Water Surface Water Saturation F (includes ca Describe Re	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N Present? Yes N Present? Yes N pillary fringe) coorded Data (stream gauge, mo	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) NoDepth (inches): NoDepth (inches):	Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat Water -S Field Obser Surface Water Surface Water Surface Water Saturation F (includes ca Describe Re	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N Present? Yes N Present? Yes N pillary fringe) coorded Data (stream gauge, mo	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) NoDepth (inches): NoDepth (inches):	Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat Water -S Field Obser Surface Water Surface Water Surface Water Saturation F (includes ca Describe Re	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N Present? Yes N Present? Yes N pillary fringe) coorded Data (stream gauge, mo	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) NoDepth (inches): NoDepth (inches):	Secondary Indicators (2 or more required)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat Water -S Field Obser Surface Water Surface Water Surface Water Saturation F (includes ca Describe Re	Ches): GGY drology Indicators: cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery (B7 Stained Leaves (B9) vations: ter Present? Yes N Present? Yes N Present? Yes N	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) NoDepth (inches): NoDepth (inches):	Secondary Indicators (2 or more required)

Project/Site: G WR	City/County: Sali	Nas Munterell Co sampling Date: 8-5-14
Applicant/Owner: <u>MRWPCA</u>		State: Sampling Point:
Investigator(s): Jan Tour Mart	Section, Township,	Range:
Landform (hillslope, terrace, etc.): top of		ve, convex, none): <u>COCAUL</u> Slope (%):]
Subregion (LRR):		N Long: 121042' 18.56W Datum: NADE
Soil Map Unit Name: CLEAR LAKE C	1	ETNWI classification:Riverine
Are climatic / hydrologic conditions on the site typic	and the second se	lo (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology		
		If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e map snowing sampling poin	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Samp	bled Area
Hydric Soil Present? Yes	No within a We	
Wetland Hydrology Present? Yes	× No	
	iviside sed at withand	if soils were thrown out
one to Sampling complications	e However this type	of environment is so variable
in the Ree Ditch that wear	survey it seems usel	pers. Botter option is to lump in
VEGETATION – Use scientific names	of plants. With waters	5
Trop Otratum (Distaire)	Absolute Dominant Indicate	
Tree Stratum (Plot size:)	<u>% Cover</u> Species? Status	Number of Dominant Species 2 (A)
2		
3		Total Number of Dominant 2 Species Across All Strata: (B)
4.		
All many second second	= Total Cover	Percent of Dominant Species 100% (A/B)
Sapling/Shrub Stratum (Plot size:)	
1		Prevalence Index worksheet: Total % Cover of: Multiply by:
2		<u>Total % Cover of:</u> Multiply by: OBL species x 1 =
3		FACW species x 2 =
5.		FAC species x 3 =
EIE	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5×3) 1. Nasturtium Officionale	the state of the second se	UPL species x 5 =
		Column Totals: (A) (B)
2. Atriplex	<u>20Y_(FAC</u>	
3. PICKIS echioides	N FACI	A Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
4. <u>Polypogon</u> , <u>Monspelien</u> 5. RUMUXU Chispus		Dominance Test is >50%
	2 J 081	$\frac{1}{2} Prevalence Index is \leq 3.0^{1}$
6. Polygionum		Morphological Adaptations ¹ (Provide supporting
8		data in Remarks or on a separate sheet)
	90 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:		4
1		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. 577 115 202 - 192		
50%=45 20%=18%	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum		Present? Yes <u>A</u> No
Remarks:		O LW NICH U
Most species growing i	n n lain-Idin band i	of regetation - Nasturtium on 2
Plant growing in the u	Nater	of regetation - Nasturtium on:
a Diran H in life a		
V		

0	\sim	
2	U	L
-	-	-

	1	х.	15
	4	<u>.</u>	C

JIL	the second to describe the indicator of	Sampling Point:
	th needed to document the indicator or	confirm the absence of indicators.)
Depth <u>Matrix</u> (inches) Color (moist) %	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks
ydric Soil Indicators: (Applicable to all _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3)	 Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) 	Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18)
 Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucha Minagel (S1) 	 Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) 	Red Parent Material (TF2) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and worldard bydrophytic regetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Vernal Pools (F9)	wetland hydrology must be present, unless disturbed or problematic.
estrictive Layer (if present):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
(222)	U	
/DROLOGY		
Vetland Hydrology Indicators:	and the state of a	
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 (B Water-Stained Leaves (B9)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	Crayfish Burrows (C8)
ield Observations: Surface Water Present? Yes <u>×</u>	No Depth (inches): No Depth (inches):	
		Wetland Hydrology Present? Yes X No
Saturation Present? Yes <u>X</u> Includes capillary fringe)	No Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes <u>X</u> Includes capillary fringe)		
Saturation Present? Yes <u>X</u> Includes capillary fringe)	No Depth (inches):	

oject/Site:	CIWR		City/	County: Sali nas	Monterey CS Sampling Date: 85-4	-
plicant/Owner:	MRIN	PCP			State: A Sampling Point: 21	
	ami Davis Matt	Whyson Shaelun	HOSION_ Sect	ion, Township, Rar	nge:	
	be, terrace, etc.): _	ist bonk	Loc	al relief (concave, c	convex, none): CON CAVE Slope (%):	_
bregion (LRR):	1001	¢	Lat: 36°	44'24.BIN	Long: 121941 17.0 W Datum: NADO	3
oil Map Unit Na	MITAD.	LAKE CLA	Y, MORERAN	ELY WET	NWI classification: Frechwater Ever	renti
		on the site typical fo	r this time of year?		(If no, explain in Remarks.)	
	N, Soil N		significantly dist	urbed? Are "	"Normal Circumstances" present? Yes X No	
e Vegetation _	N_, Soil_N_	, or Hydrology	I naturally probler		eeded, explain any answers in Remarks.)	
	F FINDINGS -	- Attach site m	ap showing sa	mpling point le	ocations, transects, important features, et	с.
		V				
	getation Present?	Yes X	No No	Is the Sampled		-
Hydric Soil Pres Wetland Hydrol		Yes X	No	within a Wetlar		-
Remarks: ALL		11	a share	have bee	an met at this location	_
the onece	noven all	Three per	is succession	1	ogricultural practices. Addition	de
He ch	ale at li	high the	s point u	vas pualue	ched doe not commande with	0
FGETATIO	N – Use scien	tific names of	plants. the	evaluation	un as a cubole.	
			Absolute D	ominant Indicator	Dominance Test worksheet:	
Tree Stratum	(Plot size:)	<u>% Cover</u> S	pecies? Status	Number of Dominant Species 2 (A)	
1						4
2					Total Number of Dominant Species Across All Strata:	d ()
4.					Percent of Dominant Species	
-		2270	=	Total Cover	That Are OBL, FACW, or FAC: (A/E	3)
Sapling/Shrub	Stratum (Plot size	$\frac{2}{0}$	80	Y FACIN	V Prevalence Index worksheet:	
1. <u>Suci</u> 2.		10.0		1	Total % Cover of: Multiply by:	
3.					OBL species x 1 =	
4					FACW species x 2 =	
5			007	T-1-1 0	_ FAC species x 3 = FACU species x 4 =	
Herb Stratum	(Plot size: 2×	201		Total Cover	UPL species x 5 =	
1. Pic	VISPONIC	ridus		FACU	- Column Totals: (A) (E	3)
2. Atr	iplex sp.			Y(FAC)	Prevalence Index = B/A =	
3. Rapl	nanus so	atives		N NV	Hydrophytic Vegetation Indicators:	-
					Dominance Test is >50%	
					Prevalence Index is $\leq 3.0^{1}$	
					 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 	
					Problematic Hydrophytic Vegetation ¹ (Explain)	
			_/=	Total Cover	-	
		:)			¹ Indicators of hydric soil and wetland hydrology must	t
1					be present, unless disturbed or problematic.	
				Total Cover	Hydrophytic Vegetation	
		%	Cover of Biotic Cru	st	Present? Yes No	
2	nd in Herb Stratum					
2	nd in Herb Stratum	1st bunk		the second se	had to institute is	
2 % Bare Grou	nd in Herb Stratum	1st bank	no of cha	innel dor	minared by willows	
2 % Bare Grou	nd in Herb Stratum	along ed	ge of cho	innel dor	minaded by Willows	1
2 % Bare Grou	nd in Herb Stratum 2.ft bund cale at	along ed Whith t	ge of cho	t unes	evaluated is not reacist	int le c

		61
Complime	Delint	they.
Sampling	Point	0

Profile Description: (Describe to the de Depth Matrix		ox Features			and abounde	
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6 1048-22 1009	0					Nemarks
11-18 101221 903	1540410	107	0	A A	CANTIN	
the with which	A1-16-10	-1019	0	101	Sandych	24
					1	Q
			-			
			-	-		
Type: C=Concentration, D=Depletion, RM		-Coupred	as Casta		- 2.	AND AND A REPORT OF ANY
Hydric Soil Indicators: (Applicable to al	LRRs, unless other	wise note	d)	d Sand G		ation: PL=Pore Lining, M=Matrix.
Histosol (A1)			u.,			or Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Sandy Redo Stripped Ma					uck (A9) (LRR C)
Black Histic (A3)	Loamy Muc					uck (A10) (LRR B)
Hydrogen Sulfide (A4)	Loamy Gley					d Vertic (F18)
Stratified Layers (A5) (LRR C)	Depleted Ma	eu Malitx (FZ)			rent Material (TF2)
1 cm Muck (A9) (LRR D)	Depleted Ma		6)		Other (E	xplain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Da					
Thick Dark Surface (A12)	Redox Depr				31-11-11-1	
Sandy Mucky Mineral (S1)	Vernal Pools)		Indicators o	f hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		3 (1 3)				vdrology must be present,
Restrictive Layer (if present):						turbed or problematic.
Туре:						
Depth (inches):						
					A state of an and the state	CONTRACTOR DATE AND
	_				Hydric Soil P	resent? Yes <u>X</u> No
Remarks:					Hydric Soil P	resent? Yes <u>X</u> No
Remarks: YDROLOGY					Hydric Soil P	resent? Yes <u>X</u> No
Remarks: YDROLOGY Vetland Hydrology Indicators:					Hydric Soil P	resent? Yes <u>X</u> No
Remarks: YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one required						resent? Yes X No
Remarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required _ Surface Water (A1)	Salt Crust (B11)			<u>Seconda</u>	ary Indicators (2 or more required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)		B11)			<u>Seconda</u> Wat	ary Indicators (2 or more required) fer Marks (B1) (Riverine)
YDROLOGY Yetland Hydrology Indicators: trimary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (I Biotic Crust	B11) (B12)	B13)		<u>Seconda</u> Wat	ary Indicators (2 or more required) fer Marks (B1) (Riverine)
YDROLOGY Yetland Hydrology Indicators: trimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (Biotic Crust Aquatic Inve	B11) (B12) ertebrates (<u>Seconda</u> Wat Sed Drift	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
YDROLOGY Yetland Hydrology Indicators: trimary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (Biotic Crust Aquatic Inve Hydrogen S	B11) (B12) ertebrates (Sulfide Odor	(C1)	ving Root	<u>Seconda</u> Wat Sed Drift Drait	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
YDROLOGY Yetland Hydrology Indicators: trimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rf	B11) (B12) ertebrates (sulfide Odor nizospheres	(C1) along Li	ving Root	<u>Seconda</u> Wat Sed Drift Drai Drai Dray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2)
YDROLOGY Vetland Hydrology Indicators: trimary Indicators (minimum of one required	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of	B11) (B12) ertebrates (sulfide Odor hizospheres f Reduced I	(C1) along Li ron (C4)		<u>Seconda</u> Wat Sed Drift Drift Drai ts (C3) Dry- Cray	any Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) rfish Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: trimary Indicators (minimum of one required	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rf Presence of Recent Iron	B11) (B12) ertebrates (Sulfide Odor hizospheres f Reduced I Reduction	(C1) along Li ron (C4) in Tilled :		<u>Seconda</u> Wat Sed Drift Drai ss (C3) Dry- Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) iration Visible on Aerial Imagery (C9
Remarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required	Salt Crust (Biotic Crust Aquatic Inve Hydrogen S Oxidized Rf Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Gurface (C7	(C1) along Li ron (C4) in Tilled (<u>Seconda</u> Wat Sed Driff Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) iration Visible on Aerial Imagery (C9 llow Aquitard (D3)
YDROLOGY Vetland Hydrology Indicators: trimary 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 () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rf Presence of Recent Iron	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Gurface (C7	(C1) along Li ron (C4) in Tilled (<u>Seconda</u> Wat Sed Driff Drai Cray Satu Sha	ary Indicators (2 or more required) ter 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 (C9
Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates (Sulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema	(C1) along Li ron (C4) in Tilled :) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Driff Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) iration Visible on Aerial Imagery (C9 llow Aquitard (D3)
YDROLOGY Yetland Hydrology Indicators: Yrimary Indicators (minimum of one required	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates (Sulfide Odor Dizospheres f Reduced I Reduction Surface (C7 ain in Rema	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Driff Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) iration Visible on Aerial Imagery (C9 llow Aquitard (D3)
Xemarks: YDROLOGY Vetland 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) eld Observations: urface Water Present? Yes N	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rf Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates (Sulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li ron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Driff Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) iration Visible on Aerial Imagery (C9 llow Aquitard (D3)
Xemarks: YDROLOGY Vetland Hydrology Indicators: trimary Indicators (minimum of one required	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) iration Visible on Aerial Imagery (C9 llow Aquitard (D3)
Xemarks: YDROLOGY Vetland Hydrology Indicators: trimary Indicators (minimum of one required	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)
YDROLOGY Vetland Hydrology Indicators: trimary Indicators (minimum of one required	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)
Remarks: YDROLOGY Vetland 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) ield Observations: urface Water Present? Yes N	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)
Remarks: YDROLOGY Vetland 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) ield Observations: urface Water Present? Yes Vater Table Present? Yes Naturation Present? Yes Neturation Present? Yes Mater Table Present? Yes Mater Table Present? Yes Vater Table Present? Yes Mater Table Present? Yes Mater Table Present? Yes Mater Table Present? Yes Naturation Present? Yes	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)
YDROLOGY Vetland 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) ield Observations: urface Water Present? Yes Vater Table Present? Yes Naturation Present? Yes Naturation Present? Yes Mater Table Present? Y	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)
Xemarks: Xetland 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) eld Observations: urface Water Present? Yes N aturation Present? Yes N aturation Present? Yes N aturation Present? Yes N Secribe Recorded Data (stream gauge, more	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)
YDROLOGY Vetland 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) ield Observations: urface Water Present? Yes Vater Table Present? Yes Naturation Present? Yes Naturation Present? Yes Mater Table Present? Y	Salt Crust () Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Expla No Depth (inch No)	B11) (B12) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Surface (C7 ain in Rema hes): hes):	(C1) s along Li iron (C4) in Tilled s) arks)	Soils (C6)	<u>Seconda</u> Wat Sed Drift Drai Cray Satu Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) irration Visible on Aerial Imagery (C9 llow Aquitard (D3) -Neutral Test (D5)

Project/Site:GWP	City/	County: Salinas/Mont	ere- 60	Sampling Date:	8-5-14
Applicant/Owner: <u>mRWPC</u>	4	/ Sta	ite: <u>A</u> s	Sampling Point:	22
Investigator(s): Dri Davis Matt.	Johnson Shaelyn Hespised	tion, Township, Range:			
Landform (hillslope, terrace, etc.): +bC	10 f bank Loc	al relief (concave, convex, no	one): CONC	ave slope	e (%): <u>5</u>
Subregion (LRR):	Lat: <u>36</u> °	44 24. 61 W Long: 1.	21"44' 16	15 W Datum	NAD83
Soil Map Unit Name:LEAR	LAKE CLAY, MOINTE	HTELY WET	_ NWI classificat	tion: Freshurch	er Energent
	lydrology significantly distuited in the second seco	urbed? Are "Normal Ci natic? (If needed, exp	no, explain in Rer rcumstances" pre lain any answers s, transects,	esent? Yes Xes Xes in Remarks.)	Let lind
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No <u>X</u> Yes No <u>X</u> Yes No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No	
Remarks:		1			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksh	
1			Number of Dominant Spe That Are OBL, FACW, or	
2			Total Number of Dominan	ť
3			Species Across All Strata:	
4			Percent of Dominant Spec	cies
Sapling/Shrub Stratum (Plot size:)		= Total Cover	That Are OBL, FACW, or	FAC: (A/B)
1			Prevalence Index works	heet:
2			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
4			FACW species	x 2 =
5			FAC species	x 3 =
and and a second se		= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)			UPL species	x 5 =
1			Column Totals:	(A) (B)
2			Prevalence Index =	B/A =
4			Hydrophytic Vegetation	
5			Dominance Test is >5	50%
6			Prevalence Index is ≤	3.0 ¹
7			Morphological Adapta	ations ¹ (Provide supporting
8				r on a separate sheet)
		= Total Cover	Problematic Hydrophy	ytic vegetation (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hudric soil of	nd wetland hydrology must
12			be present, unless disturb	
		= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum %	Cover of Biotic C	rust	Vegetation Present? Yes _	No
Remarks:			L	
Unvegetated				
0				

	00
Point:	10

Profile Description: (Describe to the dept	th needed to document the indicator or d		indicators.)
Depth <u>Matrix</u> inches) <u>Color (moist)</u> %	<u>Redox Features</u> Color (moist) % Type ¹ L	.oc ² Texture	Remarks
2-18 10-12-12			
ype: C=Concentration, D=Depletion, RM= ydric Soil Indicators: (Applicable to all	Reduced Matrix, CS=Covered or Coated S LRRs, unless otherwise noted.)		tion: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Mu	ck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		ck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced	Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Par	ent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (E	xplain 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)	³ Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		drology must be present,
Sandy Gleyed Matrix (S4)			urbed or problematic.
testrictive Layer (if present):			
Туре:			
		the second se	
Depth (inches):		Hydric Soil P	resent? Yes No $\stackrel{\checkmark}{\simeq}$
		Hydric Soil P	resent? Yes <u>No X</u>
edge of ag. held		Hydric Soil P	resent? Yes <u>No </u>
edge of ag. field YDROLOGY		Hydric Soil P	resent? Yes <u>No X</u>
Remarks: edge of ag. field YDROLOGY Vetland Hydrology Indicators:	t: check all that apply)		
Remarks: Edge of ag. field YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required		Second	ary Indicators (2 or more required)
Remarks: Edge Of ag. field YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Salt Crust (B11)	<u>Second</u> Wa	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Remarks: edge of ag. field YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	<u>Second</u> Wa Sec	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Remarks: Edge Of ag. field YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Second</u> Wa Sec Drit	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Remarks: Edge Of ag. field YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<u>Second</u> Wa Sec Drit Dra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Remarks: edge of ag. field YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Second</u> Wa Sec Drit Dra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Remarks: Edge Of ag. field YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one required 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)	<u>Second</u> Wa Sec Drit Dra Dra ng Roots (C3) Dry	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Remarks: Edge of ag. field YDROLOGY Netland 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 along Livit 	Second Wa Sec Drit Dra Dra ng Roots (C3) Dry Cra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Remarks: Edge of ag. field YDROLOGY Vetland 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)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	Second Wa Sec Drit Dra ng Roots (C3) Dry Cra poils (C6) Sat	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Remarks: Edge of ag. field YDROLOGY Vetland 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 (B3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) 	<u>Second</u> Wa Sec Drit Dra ng Roots (C3) Dry Cra poils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Remarks: Edge of ag. field 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 Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	<u>Second</u> Wa Sec Drit Dra ng Roots (C3) Dry Cra poils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Remarks: Edge of ag. field 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) Field Observations:	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) 	<u>Second</u> Wa Sec Drit Dra ng Roots (C3) Dry Cra poils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3)
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Remarks: Edgy Of gg. field YDROLOGY Vetland 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 (B3) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes I Nater Table Present? Yes I Saturation Present? Yes I	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Second Wa Sec Drit Dra ng Roots (C3) Dry Cra poils (C6) Sat Sha FAd Wetland Hydrology	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
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Remarks: edge of ag. field YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required 	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Second Wa Sec Drit Dra ng Roots (C3) Dry Cra poils (C6) Sat Sha FAd Wetland Hydrology	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
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Project/Site:Cill	ty/County: Castroville Montered b Sampling Date: 8.5-14
Applicant/Owner:	State: <u>CA</u> Sampling Point: <u>23</u>
Investigator(s): J. Davie, M. Johnen, S. Hesion Se	ection, Township, Range:
Landform (hillslope, terrace, etc.): 100 01 Dank Lo	ocal relief (concave, convex, none): <u>Plat</u> Slope (%): <u>3</u>
Subregion (LRR): Lat: Lat:	"45'35.00"W Long: 121" 45'16,66"42 Datum: NH1085
Soil Map Unit Name: CLEAR LAKE CLAY	NWI classification: Evestualer Forestedy
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes No X (If no, explain in Remarks.) Shrub
Are Vegetation, Soil, or Hydrology significantly dis	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
VEGETATION – Use scientific names of plants.	

<u>Tree Stratum</u> (Plot size:) 1		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:
23			Total Number of Dominant (B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: _/00%_ (A/B
1,			Prevalence Index worksheet:
2			Total % Cover of:Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: <u>5×5</u>)	10.000	- Activity and	UPL species x 5 =
1. FOLLADA INA AMONIDI INA VAN EMENSIAN			Column Totals: (A) (B)
2		·	
3			Prevalence Index = B/A =
4. PLYSICAL A SMPANAC	-		Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	-		Problematic Hydrophytic Vegetation ¹ (Explain)
	10D	= Total Cover	
Woody Vine Stratum (Plot size:)			The second se
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			
		= Total Cover	Hydrophytic Vegetation 人
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust	Present? Yes No No

22	
16	
1)	

	ription: (Describe t	C. S.C. YERRO		a second s		
Depth (inches),	Color (moist)	%	Redo: Color (moist)	x Features %Type ¹	Loc ² Tex	ture Remarks
5-18	7.54R4/1					dyloan
<u></u>						
		22			= $=$	
		2				
	oncentration, D=Depl Indicators: (Application)					² Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redo	ox (S5)	_	1 cm Muck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped Ma	atrix (S6)	_	2 cm Muck (A10) (LRR B)
Black Hi	stic (A3)			ky Mineral (F1)		Reduced Vertic (F18)
	n Sulfide (A4)			ved Matrix (F2)	_	Red Parent Material (TF2)
	Layers (A5) (LRR C	;)	Depleted M	and the second se	_	Other (Explain in Remarks)
	ick (A9) (LRR D)	10.000		Surface (F6)		
	d Below Dark Surface	e (A11)		ark Surface (F7)	31	to stars of hereine hereine south the second
	ark Surface (A12)			ressions (F8)		licators of hydrophytic vegetation and vetland hydrology must be present,
	lucky Mineral (S1) Bleyed Matrix (S4)		Vernal Pool	s (F9)		inless disturbed or problematic.
	Layer (if present):					iness distance of problematic.
Type:						
	aboa);		-		Hudi	ric Sail Procent? Yes No X
Depth (in	ches):		-		Hydr	ric Soil Present? Yes No
Depth (in Remarks:	ches):		-		Hydr	ric Soil Present? Yes No
Depth (ind Remarks: YDROLO	ches):		-		Hyd	ric Soil Present? Yes No
Depth (ind Remarks: YDROLO Wetland Hyd	ches):		heck all that apply	v)	Hydr	ric Soil Present? Yes No Secondary Indicators (2 or more required)
Depth (ind Remarks: YDROLO Vetland Hyd Primary India	ches): GY drology Indicators:			N 100	Hydr	Secondary Indicators (2 or more required)
Depth (ind Remarks: YDROLO Vetland Hyd Primary Indid Surface	GY drology Indicators: cators (minimum of o		heck all that appl Salt Crust Salt Crust	(B11)	Hydr	
Depth (ind Remarks: YDROLO Netland Hyd Primary India Surface High Wa	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)		Salt Crust Biotic Crus	(B11) st (B12)	Hydr	Secondary Indicators (2 or more required)
Depth (ind Remarks: YDROLO Vetland Hyd Primary India Surface High Wa Saturatio	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)	ne required; c	Salt Crust Biotic Crus Aquatic Inv	(B11)	Hydr	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (ind Remarks: YDROLO Vetland Hyd Primary Indid Surface High Wa Saturatid Water M	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri	ne required; c	Salt Crust Biotic Crus Aquatic Inv Hydrogen	(B11) st (B12) vertebrates (B13)		Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (ind Remarks: YDROLO Vetland Hy Primary Indid Saurface High Wa Saturatio Water M Sedimen	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor	ne required; c ne) nriverine)	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1)	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (ind Remarks: YDROLO Vetland Hy Primary Indid Surface High Wa Saturatio Saturatio Saturatio Drift Dep	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri	ne required; c ne) nriverine)	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized F Presence	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine)
Depth (ind Remarks: YDROLO YDROLO Netland Hyd Primary India Saturatid Saturatid Water M Saturatid Uvater M Saturatid Saturatid Unift Dep Surface	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver	ne required; c ne) nriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine)
Depth (ind Remarks: YDROLO YDROLO Vetland Hyd Primary India Surface High Wa Saturatio Vater M Sedimer Drift Dep Surface Inundati	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial In	ne required; c ne) nriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Thin Muck	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduced Iron (C- n Reduction in Tille Surface (C7)	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Depth (ind Remarks: YDROLO Vetland Hyd Primary Indid Surface High Wa Saturatio Vater M Sedimer Drift Dep Surface Inundati Water-S	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9)	ne required; c ne) nriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Thin Muck	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille	Living Roots (C3)	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Depth (ind Remarks: YDROLO Vetland Hy Primary India Saturation High Wa Saturation Saturation Uvater M Sedimen Drift Dep Surface Inundati Water-S Field Obser	GY drology Indicators: cators (minimum of or Water (A1) tter Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor boosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations:	ne required; c ne) nriverine) ine) magery (B7)	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized F Presence 0 Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4 n Reduction in Tille Surface (C7) plain in Remarks)	Living Roots (C3)	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Depth (ind Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Saturatio Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Wat	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Ye	ne required; c ne) nriverine) ine) magery (B7) es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- in Reduction in Tille Surface (C7) olain in Remarks) ches):	Living Roots (C3) 4) d Soils (C6)	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Depth (ind Remarks: YDROLO Vetland Hyd Primary India Saurface High Wa Saturatid Water M Saturatid Water M Saturatid Unift Dep Surface Inundati Water-S Field Obser Surface Wat Nater Table	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye Present? Ye	ne required; c ne) nriverine) rine) magery (B7) es No es No	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence (Recent Iro Thin Muck Other (Exp Depth (inv Depth (inv	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inc Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Saturatio Unift Dep Surface Inundati Water M Sedimer Surface Inundati Surface Water-S Surface Water Surface Surface Surfac	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri ater Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Present? Yeresent?	ne required; c ne) nriverine) ine) magery (B7) es No es No es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp Depth (ino Depth (ino	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6) Wetland Hy	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (ind Remarks: YDROLO Wetland Hy Primary Indid Surface High Wa Saturatio Saturatio Drift Dep Surface Inundati Water S Field Obser Surface Wat Water Table Saturation P (includes ca)	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor cosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial la tained Leaves (B9) vations: er Present? Ye Present? Ye resent? Ye	ne required; c ne) nriverine) ine) magery (B7) es No es No es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp Depth (ino Depth (ino	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6) Wetland Hy	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (ind Remarks: YDROLO Wetland Hy Primary Indid Surface High Wa Saturatio Saturatio Drift Dep Surface Inundati Water S Field Obser Surface Wat Water Table Saturation P (includes ca)	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri ater Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Present? Yeresent?	ne required; c ne) nriverine) ine) magery (B7) es No es No es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp Depth (ino Depth (ino	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6) Wetland Hy	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (ind Remarks: YDROLO Wetland Hyd Primary Indid Surface High Wa Saturatin Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes caj Describe Re	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri ater Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Present? Yeresent?	ne required; c ne) nriverine) ine) magery (B7) es No es No es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp Depth (ino Depth (ino	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6) Wetland Hy	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (ind Remarks: YDROLO Wetland Hyd Primary Indid Surface High Wa Saturatio Water M Sedimer Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes caj Describe Re	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri ater Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Present? Yeresent?	ne required; c ne) nriverine) ine) magery (B7) es No es No es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp Depth (ino Depth (ino	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6) Wetland Hy	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (ind Remarks: YDROLO Vetland Hyd Primary Indid Surface High Wa Saturatio Vater M Sedimer Surface Inundati Water-S Field Obser Surface Wat Vater Table Saturation P (includes cap Describe Re	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri ater Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Present? Yeresent?	ne required; c ne) nriverine) ine) magery (B7) es No es No es No	Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp Depth (ino Depth (ino	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- n Reduction in Tille Surface (C7) olain in Remarks) ches): ches):	Living Roots (C3) 4) d Soils (C6) Wetland Hy	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (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)

Soli Map Unit Name: <u>PACHECO CLAY</u> Are climatic / hydrologic conditions on the site typical for Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>A</u> Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u>	or this time of yea	r? Yes No listurbed? Are	Long: <u>121°47′16.97′</u> W Datum: <u>NAD</u> NWI classification: <u>NA</u> (If no, explain in Remarks.) "Normal Circumstances" present? Yes <u>No</u> eeded, explain any answers in Remarks.)
	nap showing : 		ocations, transects, important features, e
Remarks: Area is part of Manipulat		nd	
/EGETATION – Use scientific names of p Tree Stratum (Plot size:) 1	Absolute <u>% Cover</u>		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
3 4 Sapling/Shrub Stratum (Plot size:)		= Total Cover	Total Number of Dominant 2 Species Across All Strata: (B) Percent of Dominant Species 10076 That Are OBL, FACW, or FAC: 10076
1 2 3 4			Multiply by:
5		Total Cover	FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
3. Bacchars salic Folic 4 5		N FAC	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is <3.0 ¹
<u>· Vine Stratum</u> (Plot size:)		= Total Cover	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
nd in Herb Stratum % C	ever of Biotic Cru	= Total Cover	be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <u>V</u> No

	0.
ling Point:	12
ing i ont.	

rofile Description: (Describe to the depth needed to document the	
Depth <u>Matrix</u> <u>Redox Featur</u> inches) Color (moist) % Color (moist) %	res Type ¹ Loc ² Texture Remarks
	Clarf Dam
0-5 10-1222	
5-9 104/23/4	Sand
9-18 75107.5/1	Claud
1-10 13 10 13/1	Clay
······································	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Cover	red or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all LRRs, unless otherwise network)	1
	1 cm Muck (A9) (LRR C)
Histosol (A1) Sandy Redox (S5)	
_ Histic Epipedon (A2) Stripped Matrix (S6	
_ Black Histic (A3) Loamy Mucky Mine	
Hydrogen Sulfide (A4) Loamy Gleyed Mat	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3	
_ 1 cm Muck (A9) (LRR D) Redox Dark Surfac	
Depleted Below Dark Surface (A11) Depleted Dark Surf	
Thick Dark Surface (A12) Redox Depressions	
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:	V
Depth (inches):	Hydric Soil Present? Yes No
Depth (inches):Remarks:	Hydric Soil Present? Yes No
Depth (inches):Remarks:	Hydric Soil Present? Yes No
Depth (inches):	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches):	
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) ates (B13) Drift Deposits (B3) (Riverine)
Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) ates (B13) Drift Deposits (B3) (Riverine)
Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Secondary Indicators (2 or more required)
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Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Secondary Indicators (2 or more required)
Depth (inches):	Secondary Indicators (2 or more required)

andform (hillslope, terrace, etc.): <u>bp (</u> Subregion (LRR): <u>bp (</u> Soil Map Unit Name: <u>PACHECO</u> wre climatic / hydrologic conditions on the site	Lat: 2	36°46' Corto"A	Long: <u>121° 47'47.</u> NWI classifica	<u>13'W</u> Datum: <u>1960</u> tion: <u>N/A</u>
wre Vegetation, Soil, or Hydro wre Vegetation, Soil, or Hydro SUMMARY OF FINDINGS – Attack	logy significantly logy naturally pro	disturbed? Are oblematic? (If n	"Normal Circumstances" pro eeded, explain any answers	esent? Yes <u>X</u> No s in Remarks.)
Hydric Soil Present? Ye	es <u>}</u> No es No es No	Is the Sample within a Wetla	A	No
Remarks: Area is part of a mani /EGETATION - Use scientific nam		d		
Tree Stratum (Plot size:) 1))	Absolute <u>%</u> Cover	Species? Status	Dominance Test works Number of Dominant Spe That Are OBL, FACW, or	ecies 🤈
2			Total Number of Dominal Species Across All Strata	nt a
4		_ = Total Cover	Percent of Dominant Spe That Are OBL, FACW, or	
Sapling/Shrub Stratum (Plot size: 1)		Prevalence Index works	sheet:
2			Total % Cover of:	Multiply by:
3		. <u></u>		x 1 =
4				x 2 =
5				x 3 =
Herb Stratum (Plot size:)		_ = Total Cover	FACU species UPL species	
1. Distichlis sp. catu		Y FAC	Column Totals:	
2. Prachanis Salia Fol	a 2	N FAC		
3. Juamea Carnosa	20	- DBL		= B/A =
4. Frankenia		N USL	Hydrophytic Vegetation	
5			Dominance Test is >	
6				ations ¹ (Provide supporting
7			data in Remarks	or on a separate sheet)
		= Total Cover	Problematic Hydroph	nytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		And the second se	
1			Indicators of hydric soil a be present, unless distur	and wetland hydrology musi bed or problematic.
2 % Bare Ground in Herb Stratum		= Total Cover	Hydrophytic Vegetation	V
	% Cover of Biotic C	rust	Present? Yes	No

	N
	0F
Sampling Point:	12
Sampling Found.	

Profile Description: (Describe to the depth needed to document the Depth Matrix Redox Feature				
(inches) Color (moist) % Color (moist) %	Type ¹	_Loc ²		Remarks
0-7 251311			Class	
7-9 104231 989 1542518 2'	9		Sand	
	ē			
818 2.513/1 157324518 JT			day_	
			0	
			<u></u>	
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered		d Sand Gr		n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise no	ted.)			Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)			the second se	(A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)				(A10) (LRR B)
Black Histic (A3) Loamy Mucky Miner			Reduced V	
Hydrogen Sulfide (A4) Loamy Gleyed Matri				t Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)			Other (Exp	lain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface				
Depleted Below Dark Surface (A11) Depleted Dark Surfa			3	
Thick Dark Surface (A12) Redox Depressions	(F8)			ydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)				ology must be present,
Sandy Gleyed Matrix (S4)			unless distur	bed or problematic.
Restrictive Layer (if present):				
Туре:			Contraine	
Depth (inches):			Hydric Soil Pre	sent? Yes <u>X</u> No
Remarks:				
YDROLOGY				
YDROLOGY Wetland Hydrology Indicators:			Secondar	v Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)				y Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)			Wate	r Marks (B1) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)			Wate Sedir	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	es (B13)		Wate Sedir	r Marks (B1) (Riverine)
High Water Table (A2) Biotic Crust (B12)			Wate Sedir Drift I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1)	Living Roo	Wate Sedir Drift [Drain	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along		Wate Wate Drift I Drain ts (C3) Dry-S	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along ced Iron (C4	1)	Wate Wate Drift I Drain ts (C3) Dry-S Crayf	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) ish Burrows (C8)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along ced Iron (C4 tion in Tilleo	1)	Wate Sedir Drift I Drain ts (C3) Dry-S Crayf) Satur	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along ced Iron (C4 tion in Tilleo (C7)	1)		r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along ced Iron (C4 tion in Tilleo (C7)	1)		r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along ced Iron (C4 tion in Tilleo (C7)	1)		r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)	1)		r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)	i) d Soils (C6	Wate Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC-	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Odor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)	i) d Soils (C6		r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
WPDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Ddor (C1) eres along b ced Iron (C4 tion in Tilleo (C7) temarks)) d Soils (C6	Wate Sedir Sedir Drift I Drain ts (C3) Dry-S Crayf Satur Shall FAC- and Hydrology Pr	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9 ow Aquitard (D3) Neutral Test (D5)

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Project/Site: GWR	C	ity/County:Mor	stery, co	Sampling Date:	5-14
Applicant/Owner: <u>MRWPCH</u>				Sampling Point:	24
Investigator(s): J-Davis, M. Johns	ion 15. Hession s	ection, Township, Ra	ange:		- 1
Landform (hillslope, terrace, etc.):	thank 1	ocal relief (concave,	convex, none):d		(%):
Subregion (LRR):	Lat: 36	° 46' 20.29'	Long: 1210 47'1	6.85 WDatum:	NADS
Soil Map Unit Name: PACHECO CLA					k
Are climatic / hydrologic conditions on the site typ	pical for this time of year	? Yes No	X (If no, explain in Re		
Are Vegetation N, Soil N, or Hydrology	v significantly di		"Normal Circumstances" pi		No
Are Vegetation, Soil, or Hydrology			eeded, explain any answer		
SUMMARY OF FINDINGS – Attach si	ite map showing s	sampling point	locations, transects,	important featu	ures, etc.
Hydrophytic Vegetation Present? Yes	No _X	In the Council			
	No X	Is the Sample within a Wetla		Nox	
Wetland Hydrology Present? Yes _	No	within a wetta	nur res	NO, <u></u>	
Remarks:					
VEGETATION – Use scientific names	of plante				
		Dominant Indicator	Dominance Test works	boot:	
Tree Stratum (Plot size:)	<u>% Cover</u>	Species? Status	Number of Dominant Sp		
1			That Are OBL, FACW, o		(A)
2			Total Number of Domina	int o	
3			Species Across All Strat		(B)
4			Percent of Dominant Sp	ecies	
Sapling/Shrub Stratum (Plot size:	ý	Total Cover	That Are OBL, FACW, o		(A/B)
1			Prevalence Index work	sheet:	-
2			Total % Cover of:		r.
3			OBL species		
4			FACW species		
5			FAC species	x 3 =	
Herb Stratum (Plot size: 5×5)		Total Cover	FACU species	x 4 =	
1. BUASSICA NIGTU	5	V NL	UPL species		
2. POVISPENIALES		Y FALL	Column Totals:	(A)	(B)
3. P. UII Mistre		1 15100	Prevalence Index	= B/A =	
4			Hydrophytic Vegetation		
5			Dominance Test is >		
6			Prevalence Index is	≤3.0 ¹	
7			Morphological Adap	ations ¹ (Provide sup	porting
8				or on a separate she	
	20=	Total Cover	Problematic Hydrop	lytic vegetation (Ex	(plain)
Woody Vine Stratum (Plot size:			¹ Indicators of hydric soil	and wotland bydrolo	au must
1			be present, unless distur	bed or problematic.	gy must
2		Total Cover	Hydrophytic		
N.D	Total Contract State		Vegetation	1.	
% Bare Ground in Herb Stratum	% Cover of Biotic Crus	st	Present? Yes	No <u>X</u>	
Remarks:					

		11	13
Sampling	Doint.	1	n
Sampling	POIL.	-	2

O_16 ID_4P_24	Depth <u>Matrix</u> (inches) Color (moist) %	Redox Features <u>Color (moist) % Type¹</u>	Loc ² Texture Remarks
Type: C=Concentration_D=Depletion_RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, US=Covered or Coated Sand Grains. Type: C=Concentration_D=Depletion_RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, US=Covered or Coated Sand Grains. Histool (A1)			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histic Epideon (A2) Stripped Matrix (S6)			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos Epideon (A2) Stripped Matrix (S5) _1 cm Muck (A9) (LRR C) Black Histic (A3) Loamy Mucky Mineral (F1) _Reduced Vertic (F15) Hydrogen Sufide (A4) Loamy Mucky Mineral (F2) _Red Parent Material (T22) Stratified Layers (A5) (LR C) Depleted Matrix (F3) _Other (Explain in Remarks) 1 cm Muck (A9) (LR RD) _Redox Dark Surface (F6)			
yric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histic Epideon (A2) Stripped Matrix (S6)			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histic Epideon (A2) Stripped Matrix (S6)			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos Epideon (A2) Stripped Matrix (S5) _1 cm Muck (A9) (LRR C) Black Histic (A3) Loamy Mucky Mineral (F1) _Reduced Vertic (F15) Hydrogen Sufide (A4) Loamy Mucky Mineral (F2) _Red Parent Material (T22) Stratified Layers (A5) (LR C) Depleted Matrix (F3) _Other (Explain in Remarks) 1 cm Muck (A9) (LR RD) _Redox Dark Surface (F6)			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: for Problematic Hydric Soils ² : Histo Epipedon (A2) Stripped Matrix (S6)	Type: C=Concentration, D=Depletion, RM=I	Reduced Matrix, CS=Covered or Coated	Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Stipped Matrix (S6) 2 cm Muck (A10) (LRR B) Biack Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfde (A4) Loamy Mucky Mineral (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) Other (Explain in Remarks) 2 nor Muck (A9) (LRR D) Redox Depressions (F6) *Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Mucky Mineral (S1) Vernal Pools (F9) unless disturbed or problematic. Sandy Mucky Simeral (S1) Vernal Pools (F9) unless disturbed or problematic. Sandy Mucky Simeral (S1) Vernal Pools (F9) unless disturbed or problematic. Type:			
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) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) unless disturbed or problematic. Vermail Pools (F9) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) unless disturbed or problematic. Vermail (inches): Hydric Soil Present? Yes No /// Present? Ype:	_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Bolow Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic. Sardy Gleyed Matrix (S4) unless disturbed or problematic. No ★ Depthet depend Matrix (S4) unless disturbed or problematic. No ★ VPRCLOGY Yes No ★ No ★ YDROLOGY Sardare Water (A11) Salt Crust (B11) Water Marks (B1) (Riverine) No ★ High Water Table (A2) Biotic Crust (B12) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B12) Secondary Indicators (B3) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Nonriverine) Hydricspheres atong Living Roots (C3) Dry-Season Water Table (C2) Surface S01 Cracks (B6) Recent Iron Reductori in Tilled Soils (C6) Saturation	Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A1) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) unless disturbed or problematic. Seatrictive Layer (if present):	Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Vernal Pools (F9) sandy Gleyed Matrix (S4) unless disturbed or problematic. Exerticitive Layer (If present): Type: Type:		Depleted Matrix (F3)	Other (Explain in Remarks)
Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) unless disturbed or problematic. Type:		Redox Dark Surface (F6)	
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	프로그램 가슴 방법 수가 있는 것을 많이 가지 않는 것 이렇게 다 가지 않는 것이 같아요. 이렇게 나는 것이 없는 것이 없다. 것이 없는 것이 없 않이 않이 않다. 것이 않이 않지 않이 않이 않이 않이 않이 않	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
		Vernal Pools (F9)	wetland hydrology must be present,
Type:			unless disturbed or problematic.
Depth (inches): Hydric Soil Present? Yes No Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	testrictive Layer (if present):		
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	Туре:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Vater Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C2) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Table Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Sufface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes			
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	Depth (inches):		Hydric Soil Present? Yes No
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1)			Hydric Soil Present? Yes No
Surface Water (A1)	Remarks:		Hydric Soil Present? Yes No
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	Remarks: YDROLOGY		Hydric Soil Present? Yes No <u></u>
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C1) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Mater Table Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Social Crayfish Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: YDROLOGY Wetland Hydrology Indicators:	; check all that apply)	
	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)		Secondary Indicators (2 or more required)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Cincludes capillary fringe) Depth (inches): Wetland Hydrology Present? Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: If available:	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C1) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Mode timeses	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) 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) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Cincludes capillary fringe) Depth (serial photos, previous inspections), if available: No Yes No	Remarks: 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)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li 	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)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Stream gauge	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) iving Roots (C3) Crayfish Burrows (C8)
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled 	Secondary Indicators (2 or more required)
Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches): Wetland Hydrology Present? Yes No _X Operative Control of the con	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled 	Secondary Indicators (2 or more required)
Water Table Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No _ No _ Saturation Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No _ No _ Sincludes capillary fringe) Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No _ No _ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Stream gauge No _	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) 	Secondary Indicators (2 or more required)
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depcribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) 	Secondary Indicators (2 or more required)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) 	Secondary Indicators (2 or more required)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Remarks:	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) No	Secondary Indicators (2 or more required)
	Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) No	Secondary Indicators (2 or more required)
	Remarks: 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) Field Observations: Surface Water Present? Yes Sutration Present? Yes Saturation Present? Yes Nater Table Present? Yes Seturation Present? Yes Mater Table Present? Yes Mater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, model)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) No	Secondary Indicators (2 or more required)
	Remarks: 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) Field Observations: Surface Water Present? Yes Surface Corded Data (stream gauge, model)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) No	Secondary Indicators (2 or more required)
	Remarks: Wotland Hydrology Indicators: Primary Indicators (minimum of one required)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) No	Secondary Indicators (2 or more required)

Project/Site: <u>GWF/Templadento Slovech</u> Applicant/Owner: <u>MRWPCA</u>	City/County: Monteven Co., Sampling Date: 8/21/2014 State: A Sampling Point: 27
Investigator(s): M. Johnson, S. Hezsion	Section, Township, Range:
Landform (hillslope, terrace, etc.): + 000 01a	Local relief (concave, convex, none): Aby Slope (%): 0-1%
Subregion (LRR): Lat	36°46'55.524/Long: 121°47'34.59" Datum: 14083
Soil Map Unit Name: ALVISO STLTY (LAY)	-OAMNWI classification: Estugrime + Morring
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signification, Soil, or Hydrology naturall	antly disturbed? Are "Normal Circumstances" present? Yes No y problematic? (If needed, explain any answers in Remarks.) ving sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Third year 3	drought

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute <u>% Cover</u>	Species? Status	Dominance Test worksheet: Number of Dominant Species
1		<u>, see , t </u>	That Are OBL, FACW, or FAC: (A)
23			- Total Number of Dominant
3			Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size:)	-	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:O6 [%] / _D (A/B)
1			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3	-		OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
Herb Stratum (Plot size: 5/5/)		= Total Cover	FACU species x 4 =
1. Juemea Camosa	2	N ADI	UPL species x 5 =
2. Uffamleurg Salaria	90	V FACU	Column Totals: (A) (B)
3. Protentilla	2	N Preu	Prevalence Index = B/A =
4. Weed			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is $\leq 3.0^{1}$
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)		= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
1			¹ Indicators of hydric soil and wetland hydrology must
2			be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic Vegetation
Remarks:	S. Biotic Oft		Present? Yes No

		- 1	17.1
Sampling	Point:	1	1

ofile Description: (Describe to the depth needed to document the indicator or co	
epin Matrix 9/ Calar (moist) % Type1	oc ² Texture Remarks
	Class
+0-13 10423/2 100	
13-15 5V 4/1 75 2:5YR 4/13 25 C N	<u></u>
	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated S	Indicators for Problematic Hydric Soils ³ :
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	1 cm Muck (A9) (LRR C)
Histosol (A1) Sandy Redox (S5)	
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)	³ 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):	
Restrictive Layer (il present).	1.
Туре:	Hydric Soil Present? Yes No X
Depth (inches):	
YDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Secondary Indicators (2 of mole required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ving Roots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Line (A1)	 Secondary Indicators (2 of Hide required) 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; check all that apply)	Vater 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; check all that apply)	Secondary Indicators (2 of Indic required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Vater 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; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Lin Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled S Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Secondary Indicators (2 of Indic required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Lin Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled S Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Secondary Indicators (2 of Hidre required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Lin Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled S Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Secondary Indicators (2 of Hidre required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of Indic required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of Hidre required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of Indic required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of Indic required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of Indic required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 of Hidre required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary indicators (2 of more required)

Project/Site: GWR Tendloders Eller 1	City/County: Muthering (D Sampling Date: 8-24-34
Applicant/Owner:	State: <u>CA</u> Sampling Point: <u>28</u>
Investigator(s): Mr Subasura Contactor	Section, Township, Range:
Landform (hillslope, terrace, etc.): <u>floateta</u>	Local relief (concave, convex, none): \underline{MONe} Slope (%): $\underline{210}$ at: $\underline{36^{\circ}46'58.4/n}$ Long: $\underline{121^{\circ}47'37.14''4}$ Datum: $\underline{NAD83}$
Soil Map Unit Name: DINICLAND	NWI classification://A
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	within a Wetland? Yes No X
Remarks: 3rd year of a drought.	

VEGETATION – Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet	t:
<u>Tree Stratum</u> (Plot size:) 1	Contract of the second	Species? Status	Number of Dominant Species That Are OBL, FACW, or FA	
2				
			Total Number of Dominant Species Across All Strata:	(B)
3			Species Across Air Strata.	(0)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FA	
			Prevalence Index workshee	et.
1			Total % Cover of:	
2			OBL species	
3			FACW species	
4		· · · · · · · · · · · · · · · · · · ·	FAC species	
5				
Herb Stratum (Plot size: 5/5)	_	_ = Total Cover	FACU species	
1. Dotentilla answind sep pacifica	15	V OR.	UPL species	
2. Dictichies spicata	15	V FAC	Column Totals:	(A) (B)
3. Jenning CARMOSA	- 00	V ORI	Prevalence Index = B/	A =
4. Frankenia Salina	10	Y RWS	Hydrophytic Vegetation Inc	
5. Kumex acetosella	- 2	FIACM	Dominance Test is >50%	
6. Curly barbarae			Prevalence Index is ≤3.0	
-0		·	Morphological Adaptatio	
7,			data in Remarks or o	in a separate sheet)
8			Problematic Hydrophytic	vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		_ = Total Cover		
			¹ Indicators of hydric soil and	wetland hydrology must
1 2.			be present, unless disturbed	or problematic.
· 2		= Total Cover	Hydrophytic Vegetation	V
% Bare Ground in Herb Stratum % Co	ver of Biotic C	Crust	Present? Yes	× No
Remarks:				

SOIL Profile Des	cription: (Describe	to the de	nth needed to decu	mont the	Indicator	ar confi	m the choses o	Sampling Point:	
Depth	cription: (Describe Matrix	to the de		ment the ox Feature		or confil	in the absence o	or indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type1	_Loc ²	Texture	Remarks	
03	10YR 211	112					Silt Losus	Dead Plant Maverie	18
37	101@2/1	95	254R418	5	C	M	FINE Chan		
7-15	EV 411	70	2.540 418	20	C	IAA	11 90 0	S	
112	0/ 1/1	10	2.01 L 110		0	IVI	Silty Ung		
									
-						_			
								6	
						-			-
¹ Type: C=C	Concentration, D=Dep	letion RM	=Reduced Matrix C	S=Covere	d or Coate	ed Sand (Grains ² Loca	tion: PL=Pore Lining, M=Matrix	~
	Indicators: (Applic					Su Gunu C		or Problematic Hydric Soils ³ :	
Histoso			Sandy Red					uck (A9) (LRR C)	
Histic E	pipedon (A2)		Stripped Ma	and the second se				uck (A10) (LRR B)	
	listic (A3)		Loamy Muc	ky Minera	al (F1)		Reduced	d Vertic (F18)	
	en Sulfide (A4)		Loamy Gley		(F2)			ent Material (TF2)	
	d Layers (A5) (LRR	C)	Depleted M				Other (E	Explain in Remarks)	
	uck (A9) (LRR D) ed Below Dark Surfac	0 (011)	Redox Dark						
	ark Surface (A12)	e (ATT)	Contract Con				³ Indicators o	f hydrophytic vegetation and	
	Mucky Mineral (S1)		Vernal Pool		10)			ydrology must be present,	
	Gleyed Matrix (S4)			- ()				turbed or problematic.	-Zi
Restrictive	Layer (if present):	1					1		~
Туре:							-		
Depth (in	nches):						Hydric Soil P	resent? Yes No	
IYDROLC	1222-11-11-11-11-11-11-11-11-11-11-11-11					_	1 × 2		P
	drology Indicators:								
	icators (minimum of o	ne require	d; check all that appl	y)				ary Indicators (2 or more requir	ed)
	Water (A1)		Salt Crust	and the second sec				ter Marks (B1) (Riverine)	
	ater Table (A2)		Biotic Crus					diment Deposits (B2) (Riverine))
	ion (A3)		Aquatic Inv					ft Deposits (B3) (Riverine)	
	Marks (B1) (Nonriver		Hydrogen					inage Patterns (B10)	
	nt Deposits (B2) (Nor posits (B3) (Nonrive							-Season Water Table (C2)	
	Soil Cracks (B6)	ine)	Presence Recent Iro			· · · · · · · · · · · · · · · · · · ·		yfish Burrows (C8)	
	ion Visible on Aerial I	magery (P				u Sons (C		uration Visible on Aerial Imager allow Aquitard (D3)	y (C9)
	Stained Leaves (B9)	magery (L	Other (Exp					C-Neutral Test (D5)	
Field Obser					in an an an	-			
		es	No X Depth (ind	ches).					
Water Table		es X	No Depth (ind		M				
Saturation P		es	No Depth (ind		1.6	10/04	and Hydrology	Present? Yes X No	
(includes ca	pillary fringe)							Present? Tes <u>/</u> NO	
Describe Re	corded Data (stream	gauge, m	onitoring well, aerial p	photos, pr	evious ins	pections)	, if available:		
Domarka					_				
Remarks:									¢
									e
							and the second		
							×		

US Army Corps of Engineers

4

Arid West - Version 2.0

41

Applicant/Owner: <u>MKUP(H</u>				_ Sampling Point: <u></u>
nvestigator(s): M. Jourson, Sites		and the second sec		1
andform (hillslope, terrace, etc.):				
ubregion (LRR):				
coil Map Unit Name: DUNE LAND			NWI classif	ication:///A
re climatic / hydrologic conditions on the site typi				
re Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "Normal Circumstances"	present? Yes X No
re Vegetation \underline{N} , Soil \underline{N} , or Hydrology	A naturally pro		(If needed, explain any answ	
UMMARY OF FINDINGS - Attach sit	e man showing	sampling poi	nt locations transect	s important features etc
		oumping por		
	No	Is the Sam		
	No X	within a W	etland? Yes	No
Descended in	No			
Remarks: 3rd year drought				
6 0				
/EGETATION – Use scientific names	of plants.	Total an		
	Absolute			ksheet:
Tree Stratum (Plot size;) 1))		Species? Statu		
2			That Are OBL, FACW	, or FAC: (A)
3			Total Number of Domi	
4			Species Across All Str	rata: (B)
		= Total Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 10 x 10			That Are OBL, FACW	
1. Bacharis- Diluloris		1	Prevalence Index wo	
2			Total % Cover of:	
3				x 1 =
4				x 2 =
5				x 3 =
Herb Stratum (Plot size: 575)		= Total Cover		x 4 = x 5 =
1. RINARS · UNDIAUS	15	FAX		(A) (B)
2. Carey Danda	90	Y FAC		(A) (b)
3			Prevalence Inde	x = B/A =
4			Hydrophytic Vegetat	ion Indicators:
5			Dominance Test i	
6			Prevalence Index	
7			Morphological Ad	aptations ¹ (Provide supporting ks or on a separate sheet)
8				ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:		= Total Cover		
1			¹ Indicators of hydric so	bil and wetland hydrology must
2		1	be present, unless dis	
		= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum			Vegetation	
	70 Cover of Blotic Cr	ust	Present? Yo	es No
Domarka				
Remarks:				

		1.5
	0	CA.
22	A	4
int:	11	

Depth	iption: (Describe to the dep Matrix	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type ¹ L	oc ² Texture Remarks
D-17	10/8 5/2		Sand
?,			
		=Reduced Matrix, CS=Covered or Coated S LRRs, unless otherwise noted.)	and Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	pedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black His		Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
	n Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
	ck (A9) (LRR D)	Redox Dark Surface (F6)	
	Below Dark Surface (A11)	Depleted Dark Surface (F7)	
	rk Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy G	eyed Matrix (S4)		unless disturbed or problematic.
Restrictive L	ayer (if present):		
+			
Type:			V
Depth (inc	hes):		Hydric Soil Present? Yes No 🗡
Depth (inc	hes):		Hydric Soil Present? Yes No
Depth (inc Remarks:			Hydric Soil Present? Yes No
Depth (inc Remarks: YDROLO(Hydric Soil Present? Yes <u>No</u>
Depth (inc Remarks: YDROLOG Wetland Hyd	3Y	d; check all that apply)	Hydric Soil Present? Yes No
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic	GY rology Indicators:	ed; check all that apply)	
Depth (inc Remarks: YDROLO(Wetland Hyd Primary Indic. Surface \	GY rology Indicators: ators (minimum of one require Water (A1)		Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROLO(Wetland Hyd Primary Indic Surface \	GY rology Indicators: ators (minimum of one require Nater (A1) er Table (A2)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio	GY rology Indicators: ators (minimum of one require Nater (A1) er Table (A2)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic: Surface V High Wat Saturatio Water Ma	GY rology Indicators: ators (minimum of one require Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine)	 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 (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen	GY rology Indicators: ators (minimum of one require Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep	GY rology Indicators: ators (minimum of one require Water (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S	GY rology Indicators: ators (minimum of one require Vater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) oils (C6) Saturation Visible on Aerial Imagery (C9)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic: Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic	GY rology Indicators: ators (minimum of one require Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc 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) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) oils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St	GY rology Indicators: ators (minimum of one require Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) oils (C6) Saturation Visible on Aerial Imagery (C9)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ	GY rology Indicators: ators (minimum of one require Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9) rations:	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So 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) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) oils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Saturatio Water Ma Sedimen Drift Dep Surface S Field Observ Surface Wate	GY rology Indicators: ators (minimum of one require Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imagery (B ained Leaves (B9) rations: r Present? Yes	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) oils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wate Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Wate	GY rology Indicators: ators (minimum of one require Vater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imagery (B ained Leaves (B9) rations: ter Present? Yes Present? Yes	Salt Crust (B11) Solution Sol	Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Saturatio Unift Dep Surface S Inundatic Water-St Field Observ Surface Wate Vater Table I Saturation Pr	GY rology Indicators: ators (minimum of one require Vater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imagery (B ained Leaves (B9) rations: ter Present? Yes Present? Yes esent? Yes	Salt Crust (B11) Solution Sol	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) oils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Wate Nater Table I Saturation Pr includes cap	GY rology Indicators: ators (minimum of one require Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9) rations: er Present? Yes Present? Yes esent? Yes esent? Yes illary fringe)	Salt Crust (B11) Solution Sol	Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic: Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Water Surface Water Surface Water Surface Records Surface Rec	GY rology Indicators: ators (minimum of one require Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9) rations: er Present? Yes Present? Yes esent? Yes esent? Yes illary fringe)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S inundatic Water-St Field Observ Surface Wate Water Table I Saturation Pr (includes cap	GY rology Indicators: ators (minimum of one require Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9) rations: er Present? Yes Present? Yes esent? Yes esent? Yes illary fringe)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic: Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Water Surface Water Surface Water Surface Records Surface Rec	GY rology Indicators: ators (minimum of one require Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9) rations: er Present? Yes Present? Yes esent? Yes esent? Yes illary fringe)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic: Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Water Surface Water Surface Water Surface Cap Describe Rec	GY rology Indicators: ators (minimum of one require Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) osits (B3) (Nonriverine) Soil Cracks (B6) n Visible on Aerial Imagery (B ained Leaves (B9) rations: er Present? Yes Present? Yes esent? Yes esent? Yes illary fringe)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required)

Project/Site: GUR Ree Ditch	City/County: Montherey Sampling Date: 8-21-14
Applicant/Owner: <u>MRWPCA</u>	State: CA Sampling Point: 30
Investigator(s): M. Johnson , S. Hrssin	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%):
Subregion (LRR): LRP.C	Lat: 36 44 23.02/ Long: 121 44 14. 17 4) Datum: NAN 83
Soil Map Unit Name: CIEAR LAVE CLAY	MODERATELY WET NWI classification: Frechwater Forested/
Are climatic / hydrologic conditions on the site typical for this tir	
	ificantly disturbed? Are "Normal Circumstances" present? Yes X No
ALL ALL T	In a second of the rest of the
	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>Yes</u> No Hydric Soil Present? Yes <u>Yes</u> No _	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks: Brd year of drought	

VEGETATION - Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:) 1. <u>Salik las is lapis</u> 2 3		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
4	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: _/_/ (A/B) Prevalence Index worksheet:
2		Total % Cover of:Multiply by:
3 4 5		OBL species x 1 = FACW species x 2 =
<u>Herb Stratum</u> (Plot size:) 1)	= Total Cover	FAC species x 3 = FACU species x 4 = UPL species x 5 =
2		Column Totals: (A) (B)
3		Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8 (Plot size:)	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
1		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Cov	= Total Cover	Hydrophytic Vegetation Present? Yes <u>No</u> No
Remarks:		

Sam	pling	Point:

epth <u>Mat</u>		Redox Features	oc ² Texture	Remarks
nches) Color (mois		Color (moist) % Type ¹ L	and the second se	
D-12 25/3/	2		Sandy locu	
ype: C=Concentration, D	Depletion, RM=R	educed Matrix, CS=Covered or Coated S RRs, unless otherwise noted.)		on: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
		Sandy Redox (S5)		k (A9) (LRR C)
_ Histosol (A1)		Stripped Matrix (S6)		k (A10) (LRR B)
 Histic Epipedon (A2) Black Histic (A3) 		Loamy Mucky Mineral (F1)		Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)		nt Material (TF2)
Stratified Layers (A5) (I	RR C)	Depleted Matrix (F3)	Other (Ex	plain in Remarks)
_ 1 cm Muck (A9) (LRR I		Redox Dark Surface (F6)		
Depleted Below Dark S		Depleted Dark Surface (F7)		
Thick Dark Surface (A1		Redox Depressions (F8)		hydrophytic vegetation and
Sandy Mucky Mineral (Vernal Pools (F9)	wetland hy	drology must be present,
_ Sandy Gleyed Matrix (S		=	unless dist	urbed or problematic.
estrictive Layer (if prese	ing.			
				Not
Type: Depth (inches):			Hydric Soil P	resent? Yes <u>No</u>
Type: Depth (inches): Remarks: YDROLOGY			Hydric Soil Pi	resent? Yes <u>No</u>
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica	itors:	ebook all that apply)		
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu	itors:		Second:	ary Indicators (2 or more required)
Type: Depth (inches): temarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu Surface Water (A1)	itors:	Salt Crust (B11)	<u>Seconda</u> Wa	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu	itors:	Salt Crust (B11) Biotic Crust (B12)	<u>Second</u>	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu Surface Water (A1)	itors:	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	<u>Second</u> Wa Sec Drif	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor	itors: n of one required; nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	<u>Seconda</u> Wa Sec Drif Dra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)	itors: n of one required; nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv 	Second: Wa Sec Drif Dra ing Roots (C3) Dry	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor	ntors: n of one required; nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) 	<u>Second</u> Wa Sec Drif Dra ing Roots (C3) Dry Cra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noi Sediment Deposits (B2)	ntors: n of one required; nriverine) nriverine) nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	<u>Seconda</u> Wa Sec Drif Dra ing Roots (C3) Dry Cra soils (C6) Sat	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	ntors: n of one required; nriverine) (Nonriverine) nriverine) 6)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) 	Seconda Wa Sec Drif Dra ing Roots (C3) Dry Cra foils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Type: Depth (inches): emarks: YDROLOGY Yetland Hydrology Indica trimary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (No Surface Soil Cracks (B3)	ntors: nof one required; (Nonriverine) nriverine) 6) erial Imagery (B7)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 	Seconda Wa Sec Drif Dra ing Roots (C3) Dry Cra foils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9
Type: Depth (inches): temarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B Inundation Visible on A Water-Stained Leaves	ntors: n of one required; (Nonriverine) nriverine) 6) kerial Imagery (B7) (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	Seconda Wa Sec Drif Dra ing Roots (C3) Dry Cra foils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3)
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Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B3) Water Marks (B1) (Non Sediment Deposits (B3) Drift Deposits (B3) (Non Surface Soil Cracks (B Inundation Visible on A Water-Stained Leavess Field Observations: Surface Water Present? Water Table Present? Saturation Present?	nriverine) (Nonriverine) (Nonriverine) (Nonriverine) 6) kerial Imagery (B7) (B9) Yes N Yes N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	Seconda Wa Sec Drif Dra ing Roots (C3) Dry Cra foils (C6) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Saturation Present? Saturation Present? Saturation Present?	ntors: n of one required; (Nonriverine) nriverine) 6) kerial Imagery (B7) (B9) Yes N Yes N Yes N Yes N	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) 	Second: 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Saturation Present? Nater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	ntors: n of one required; (Nonriverine) nriverine) 6) kerial Imagery (B7) (B9) Yes N Yes N Yes N Yes N	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) 	Second: 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Saturation Present? Saturation Present? Saturation Present?	ntors: n of one required; (Nonriverine) nriverine) 6) kerial Imagery (B7) (B9) Yes N Yes N Yes N Yes N	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) 	Second: 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Saturation Present? Mater Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (so	ntors: n of one required; (Nonriverine) nriverine) 6) kerial Imagery (B7) (B9) Yes N Yes N Yes N Yes N	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) 	Second: 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GWR REC DITCH City/County: Montenen Co Sampling Date: 8-21-14
Applicant/Owner: MRWPCH State: CA Sampling Date: 31
Investigator(s): M. JOHNSON S. HESSION Section, Township, Range: N/A
Landform (hillslone terrace etc): FRADBLATIL
Subregion (LRR): \underline{VRC} Lat: $\underline{36^{\circ}41'23\cdot52'W}$ Long: $\underline{21^{\circ}42'44'47''W}$ Datum: $\underline{VADB3}$
Soil Map Unit Name: ANTIOCH VERY EINE SANDY LOAVE, 2980 NWI classification: Freshuater Greated Strue
Are climatic / budgelegie good litere and a second day
Are Vegetation O-it
, and the second s
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No
Hydric Soil Present? Yes No X Is the Sampled Area
Wetland Hydrology Present? Yes No Yes No
Remarks:
Sto year of Jarright, Soil is fall material

VEGETATION – Use scientific names of plants.

2. That Are OBL, FACW, or FAC 3. Total Number of Dominant 4. = Total Cover 1. = Total Cover 1. = Total % Cover of: 3.	(B)
Sapling/Shrub Stratum (Plot size:) = Total Cover Percent of Dominant Species 1 Prevalence Index workshee 2 OBL species	100
2.	: <u>100</u> (A/B)
3. OBL species 4. FACW species 5. FAC species Herb Stratum (Plot size:) = Total Cover 1. Total Cover 2. Column Totals: 3. Prevalence Index = B/A 4. 5.	t:
4.	
5.	
5.	x 2 =
Herb Stratum (Plot size:) = Total Cover FACU species 1 UPL species 23 Column Totals: 34 Prevalence Index = B/A 45 Dominance Test is >50% 67 Prevalence Index is ≤3.0 ¹ 78	x 3 =
1.	
2.	
3.	
4.	
5	
0. Prevalence Index is ≤3.01 7. Morphological Adaptation data in Remarks or on 8.	cators:
0. Prevalence Index is ≤3.01 7. Morphological Adaptation data in Remarks or on 8.	
o	
o uata in Remarks of on	s ¹ (Provide supporting
Woody Vine Stratum (Plot size:) = Total CoverProblematic Hydrophytic V	/egetation ¹ (Explain)
1 ¹ Indicators of hydric soil and w	etland hydrology must
2 be present, unless disturbed o	problematic.
= Total Cover Hydrophytic	
% Bale Ground in Herb Stratum % Cover of Biotic Crust Present? Yes	
Remarks:	No

	21
oling Point: _	51_

	cription: (Describe to the dept	Redox Features	
epth nches)	Matrix Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
1-18	2.5 Y 3/1 100		<u>Saldy an Fall 11 2 2</u>
ype: C=C	Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated San	d Grains. ² Location: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Sons .
_ Histoso	I (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic E	pipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18)
	listic (A3)	Loamy Mucky Mineral (F1)	Red Parent Material (TF2)
	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
	ed Layers (A5) (LRR C)	Depleted Matrix (F3)	
	luck (A9) (LRR D)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	
and the second s	ed Below Dark Surface (A11)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
	Dark Surface (A12)	Vernal Pools (F9)	wetland hydrology must be present,
	Mucky Mineral (S1) Gleyed Matrix (S4)		unless disturbed or problematic.
	Layer (if present):		
reatifictive	Edyer (n procently.		
Tuno			4
Type: _			Hydric Soil Present? Yes No
1.5.2	nches):		Hydric Soil Present? Yes No
Depth (i Remarks: YDROL	nches): OGY lydrology Indicators:		
Depth (i Remarks: YDROL	nches):		Secondary Indicators (2 or more required)
Depth (i Remarks: YDROL Wetland H Primary In Surfac	nches): OGY Iydrology Indicators: dicators (minimum of one require se Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V	nches): OGY lydrology Indicators: dicators (minimum of one require se Water (A1) Vater Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura	nches): OGY lydrology Indicators: dicators (minimum of one require se Water (A1) Vater Table (A2) ation (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura	nches): OGY lydrology Indicators: dicators (minimum of one require se Water (A1) Vater Table (A2)	 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 (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura Water	nches): OGY lydrology Indicators: dicators (minimum of one require se Water (A1) Vater Table (A2) ation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura Satura Satura Drift D	OGY ydrology Indicators: dicators (minimum of one require we Water (A1) Vater Table (A2) tition (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) peposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) 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)
Depth (i Remarks: YDROLU Wetland H Primary Ind Surfac High V Satura Vater Satura Sedim Drift D Surfac	OGY ydrology Indicators: dicators (minimum of one required we Water (A1) Vater Table (A2) tition (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) peposits (B3) (Nonriverine) be 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 Soi 	Secondary Indicators (2 or more required) 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) Is (C6) Saturation Visible on Aerial Imagery (C4)
Depth (i Remarks: YDROLU Wetland H Primary Ind Surfac High V Satura Vater Sedim Drift D Surfac	OGY ydrology Indicators: dicators (minimum of one require we Water (A1) Vater Table (A2) tition (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) peposits (B3) (Nonriverine)	 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 Soi 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C1) Shallow Aquitard (D3)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura Vater Satura Unift D Surfac Inund	OGY ydrology Indicators: dicators (minimum of one required we Water (A1) Vater Table (A2) tition (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) peposits (B3) (Nonriverine) be 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 Soi 	Secondary Indicators (2 or more required) 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) Is (C6) Saturation Visible on Aerial Imagery (C4)
Depth (i Remarks: YDROLU Wetland H Primary Ind Surfac High V Satura VVater Sedim Drift D Surfac Inund Water	OGY ydrology Indicators: dicators (minimum of one require we Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) peposits (B3) (Nonriverine) be Soil Cracks (B6) ation Visible on Aerial Imagery (I	 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 Soi 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura Satura Satura Unift D Surfac Surfac Inund Water Field Obs	OGY ydrology Indicators: dicators (minimum of one require we Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) beposits (B3) (Nonriverine) be Soil Cracks (B6) ation Visible on Aerial Imagery (I -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 Soi 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
Depth (i Remarks: YDROLU Wetland H Primary Inu Surface Water Surface W Surface W	OGY ydrology Indicators: dicators (minimum of one required we Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) peposits (B3) (Nonriverine) peposits (B3) (Nonriverine) peposits (B3) (Nonriverine) peroxition Visible on Aerial Imagery (I -Stained Leaves (B9) ervations:	 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 Soi 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (i Remarks: YDROL Wetland H Primary Ind Surfac High V Satura Vater Surface V Water Tat	OGY ydrology Indicators: dicators (minimum of one required water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ment Deposits (B2) (Nonriverine) beposits (B3) (Nonriverine) be Soil Cracks (B6) ation Visible on Aerial Imagery (I -Stained Leaves (B9) ervations: //ater Present? Yes be Present? Yes	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 Soi B7) 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Depth (i Remarks: YDROLU Wetland H Primary Ind Surfac High V Satura Satura Drift D Surfac Nater Field Obs Surface V Water Tat Saturation	OGY ydrology Indicators: dicators (minimum of one require wwater (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B3) (Nonriverine) ation Deposits (B2) (Nonriverine) ation Visible on Aerial Imagery (I -Stained Leaves (B9) ervations: //ater Present? Yes ater Present? Yes Present? Yes Present? Yes	 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 Soi B7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches):	Secondary Indicators (2 or more required)
Depth (i Remarks: YDROLU Wetland H Primary Ind Surfac High V Satura Satura Drift D Surfac Nater Field Obs Surface V Water Tat Saturation	OGY ydrology Indicators: dicators (minimum of one require wwater (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B3) (Nonriverine) ation Deposits (B2) (Nonriverine) ation Visible on Aerial Imagery (I -Stained Leaves (B9) ervations: //ater Present? Yes ater Present? Yes Present? Yes Present? Yes	 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 Soi B7) Thin Muck Surface (C7) Other (Explain in Remarks) 	Secondary Indicators (2 or more required)
Depth (i Remarks: YDROLU Wetland H Primary Ind Surfac High V Satura Satura Drift D Surfac Nater Field Obs Surface V Water Tat Saturation	OGY ydrology Indicators: dicators (minimum of one require wwater (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B3) (Nonriverine) ation Deposits (B2) (Nonriverine) ation Visible on Aerial Imagery (I -Stained Leaves (B9) ervations: //ater Present? Yes ater Present? Yes apresent? Yes apresent? Yes apresent? Yes application (Stream gauge, researched Data (Stream	 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 Soi B7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches):	Secondary Indicators (2 or more required)
Depth (i Remarks: YDROLU Wetland H Primary Inu Surface High V Satura Satura Drift D Surface Water Tat Saturation (includes Describe	OGY ydrology Indicators: dicators (minimum of one require wwater (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B3) (Nonriverine) ation Deposits (B2) (Nonriverine) ation Visible on Aerial Imagery (I -Stained Leaves (B9) ervations: //ater Present? Yes ater Present? Yes apresent? Yes apresent? Yes apresent? Yes application (Stream gauge, researched Data (Stream	 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 Soi B7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches):	Secondary Indicators (2 or more required)
Depth (i Remarks: YDROL Wetland H Primary Ind Surface High V Satura Saturat Surface Vater Field Obs Surface V Water Tat Saturation (includes Describe	OGY ydrology Indicators: dicators (minimum of one require wwater (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B1) (Nonriverine) ation (A3) Marks (B3) (Nonriverine) ation Deposits (B2) (Nonriverine) ation Visible on Aerial Imagery (I -Stained Leaves (B9) ervations: //ater Present? Yes ater Present? Yes apresent? Yes apresent? Yes apresent? Yes application (Stream gauge, researched Data (Stream	 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 Soi B7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches):	Secondary Indicators (2 or more required)

WETLAND DETERMINATION DATA FORM - Arid West Region

oject/site: Monterey Peninsula Fixed Guiden)cul c	ity/County:	Cashov	ille/Mantercy_ Sampling Date: 6-19-0
oplicant/Owner: TAMC				State: CA Sampling Point: 8 3-
				nge:01
andform (hillslope, terrace, etc.): bpofberm	I	ocal relief	(concave, a	convex, none): <u>Standy convex</u> Slope (%): <u>2 co</u>
ubregion (LRR): LPP C				
Dil Map Unit Name: Pacheco Clay Loam				NWI classification:
e climatic / hydrologic conditions on the site typical for this tim	e of yea	r? Yes _>	No_	(If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology signifi	icantly d	isturbed?	Are *	Normal Circumstances" present? Yes $\underline{\times}$ No
e Vegetation N_, Soil N_, or Hydrology N_ natur	ally prob	lematic?	(If ne	eded, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map sho			noint l	acations transacts important features at
UNIMART OF FINDINGS - Attach site map sho	wing	samping	a point is	ocations, transects, important reatarcs, ea
Hydrophytic Vegetation Present? Yes X No		Is the	s Sampled	Area
-lydric Soil Present? Yes 📉 No		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n a Wetlar	V
Netland Hydrology Present? Yes No	X			
Remarks:				*
eage of og field	1 /			
* L				
EGETATION			20.0	
	solute	Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species 3 (A)
. None				That Are OBL, FACW, or FAC: (A)
· · · · · · · · · · · · · · · · · · ·				Total Number of Dominant
		, and a second		Species Across All Strata: (B)
Total Cover:				Percent of Dominant Species 75% (A/B
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: _/ _/ _/ _/ (A/B
None				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
				OBL species x 1 =
۰ <u>ــــــــــــــــــــــــــــــــــــ</u>		· · · · · · · · · · · · · · · · · · ·		FACW species x 2 =
·			-	FAC species X 3 =
lerb Stratum				FACU species x 4 = UPL species x 5 =
Heliotropium curassavicum /	0%	Y	OBL	Column Totals: (A) (B)
	1095	Y.	NL.	
Epilobium Ciliatum 1	0%.	Y	FACW	Prevalence Index = B/A =
Kumer orispus	509,7	1	FACIN	Hydrophytic Vegetation Indicators:
· · · · · · · · · · · · · · · · · · ·	Same and			Dominance Test is >50%
				Prevalence Index is ≤3.0'
9				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	-			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:				(and the the bullet address (mbress)
Voody Vine Stratum				¹ Indicators of hydric soil and wetland hydrology must
· · · · · · · · · · · · · · · · · · ·				be present.
Total Cover:				Hydrophytic
	1.20			Vegetation Y
% Bare Ground in Herb Stratum % Cover of E	Biotic Cr	ust		Present? Yes <u></u> No
Remarks:				
veg. likely regularly maintained				

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L

Profile Des	cription: (Describe to	the depth needed to docu	ument the indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix	Red	1			
(inches)	Color (moist)	% Color (moist)	<u>%</u> Type	Loc2	Texture	Remarks
0-20	104R 3/1	in the second se			<u>silt</u>	
			ter and the second			- Aller -
	-					the second s
	· · · · · · · · · · · · · · · · · · ·	-statistica)		(
				• ••••••	1	
and the second s	The second s	tion, RM=Reduced Matrix. ble to all LRRs, unless othe		re Lining, F	C=Root Channel,	M=Mairix. Problematic Hydric Soils ⁹ :
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy I Sandy		Sandy Red Stripped M Loamy Mu Loamy Gle Depleted M Redox Dan (A11) Depleted D	dox (S5) Matrix (S6) Incky Mineral (F1) Eved Matrix (F2) Matrix (F3) Ink Surface (F6) Dark Surface (F7) pressions (F8)		1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp ³ Indicators of h wetland hyd	(A9) (LRR C) ((A10) (LRR B) /ertic (F18) at Material (TF2) blain in Remarks) ydrophylic vegetation and drology must be present.
a share and a start	nches):		na stranova na krak		al and the second second second	sent? Yes <u> </u>
Remarks:	surped - not a	anothe soil in its	s native con	dition	Soil traned	d many times
Soil di	Sirv Osti					
Son dia						
YDROLC					Secondar	y Indicators (2 or more required)

wetand nydroidgy indicators.	The second se	Secondary moreares (2 of more required)
Primary Indicators (any one Indicator Is sufficie 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) Biofic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Other (Explain in Remarks)	Shallow Aquilard (D3) FAC-Neutral Test (D5)
Water Table Present? Yes No	X Depth (inches); X Depth (inches); X Depth (inches);	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monit Remarks:	oring well, aerial photos, previous inspec	ctions), if available:
	- ja (*	

WETLAND DETERMINATION DATA FORM - Arid West Region

Lis has	State: <u>CA</u> Sampling Point: <u>93</u>
undform (hillslope, terrace, etc.): bottom of channel Local relief (concave	
ibregion (LRR): UKKC Lat:	
	NWI classification:
e climatic / hydrologic conditions on the site typical for this time of year? Yes No	
e Vegetation $\frac{1}{1}$, Soil $\frac{1}{1}$, or Hydrology $\frac{1}{1}$ significantly disturbed? Are	"Normal Circumstances" present? Yes X No
e Vegetation $N_{,}$ Soil $N_{,}$ or Hydrology $N_{,}$ naturally problematic? (If r	needed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, et
Autonbulia Vegetation Bragget2 Veg No X	
Hydrophytic Vegetation Present? Yes No _X Is the Sample Hydric Soil Present? Yes _X No within a Wetta	
Vetland Hydrology Present? Yes <u>No</u> within a Wetla	and? Yes No X
Remarks:	
area is waters	
EGETATION	
Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Use scientific names.) <u>% Cover Species? Status</u>	Number of Dominant Species
None	That Are OBL, FACW, or FAC: (A)
	Total Number of Dominant
	_ Species Across All Strata: (B)
Total Cover:	Percent of Dominant Species
apling/Shrub Stratum	That Are OBL, FACW, or FAC: (A/B
None	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
	OBL species x 1 =
	FACW species x 2 =
	FAC species X 3 =
erb Stratum	FACU species x 4 = UPL species x 5 =
Cardamine oligosperma 2% NA FACW	- Column Totals: (Å) (B)
MANNA CRISPUS Sto NA FACH	
	Prevalence Index = B/A =
an and a second s	Hydrophytic Vegetation Indicators:
	Dominance Test is >50%
	Prevalence Index is <3.0'
	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
Voody Vine Stratum	
	¹ Indicators of hydric soil and wetland hydrology must
	be present.
Total Cover:	Hydrophytic
6 Bare Ground in Herb Stratum 93% % Cover of Biotic Crust	Vegetation Present? Yes No
S 1	
leg mostly up on bank- point taken at botti Cosome stretching down but not much -veg likely	om of bank

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SOIL

Profile Description: (Describe to the de Depth Matrix	Redox Features	Tauture	Remarks
nches) Color (moist) %		<u>sandys</u>	
2-4 10423/2	10%		
-16 Gley 12.5/N		<u>silt</u>	mucle w/ organizs
			-
ype: C=Concentration, D=Depletion, RN	M=Reduced Matrix. ² Location: PL=Pore L	ining, RC=Root Char	nnel, M=Matrix.
ydric Soll Indicators: (Applicable to a	I LRRs, unless otherwise noted.)		s for Problematic Hydric Solls ³ :
Histosol (A1)	Sandy Redox (S5)		Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		Iced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other	r (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)	³ Indicator	s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		id hydrology must be present.
Sandy Gleyed Matrix (S4)			in injerology materies processi
Restrictive Layer (if present):			
Туре:			~/
		Undela Co	Il Present? Voc X No
Depth (inches):	ndlayer	Hydric So	ill Present? Yes X No
Depth (inches): Remarks: Drganic Streaking in Zt	ndlayer	Hydric So	nll Present? Yes <u>/</u> No
Depth (inches): Remarks: Drganic Streaking in Zt YDROLOGY	nd layer		ondary Indicators (2 or more required)
Depth (inches): Remarks: Drganic Streaking in Zt YDROLOGY Wetland Hydrology Indicators:		<u>Sec</u>	•
Depth (inches): Remarks: Drganic Streaking in 20 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su	fficient)	<u>Sec</u>	ondary Indicators (2 or more required)
Depth (inches): Remarks: Dyganic Streaking in 20 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is su X		<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Remarks: Dyganic Streaking in Zd YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su <u>X</u> Surface Water (A1) <u>X</u> High Water Table (A2)	fficient) Salt Crust (B11)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): Remarks: Drganic Streaking in Zd YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X_Surface Water (A1) X_High Water Table (A2) X_Saturation (A3)	fficient) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): Remarks: DVGANIC STREAKING IN Z YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine)	fficlent) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10)
Depth (inches): Remarks: DVGANIC STREAKING IN Z YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (NonriverIne) Sediment Deposits (B2) (NonriverIne)	fficient) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) b) X Oxidized Rhizospheres along Liv		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)
Depth (inches): Remarks: DVGANIC STREAKING IN 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	fficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) = Hydrogen Sulfide Odor (C1) = Presence of Reduced Iron (C4)		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) Thin Muck Surface (C7)
Depth (inches): Remarks: DVGANIC STREAKING IN 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Crecks (B6)	fficient) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide Odor (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Plower		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) Thin Muck Surface (C7) Crayfish Burrows (C8)
Depth (inches): Remarks: DYGUNIC STY EAKING IN 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (fficient) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide Odor (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Plower		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) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3
Depth (inches): Remarks: DYGUNIC STY EAKING IN 24 Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X	fficient) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide Odor (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Plower		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) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquilard (D3)
Depth (inches): Remarks: Drgunic Sitreaking in 24 Primary Indicators (any one indicator is su X Surface Water (A1) X High Water Table (A2) X 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:	fficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) a) X Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed (B7) Other (Explain in Remarks)		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) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquilard (D3)
Depth (inches): Remarks: DYGMIC Siveaking in 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes X	fficient)		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) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquilard (D3)
Depth (inches): Remarks: DYGUNIC STY EAKING IN 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is surface Water (A1) X High Water Table (A2) X Surface Water (A1) X High Water Table (A2) X 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? Yes X Water Table Present? Yes X	fficient)	ving Roots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquilard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: DYGMIC STY Eaking in 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes X Water Table Present? Yes X Saturation Present? Yes X	fficient)	ving Roots (C3)	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) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquilard (D3)
Depth (inches): Remarks: YGANIC STY EAKING IN 24 YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one Indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes X Water Table Present? Yes X Saturation Present? Yes X	fficient)	ving Roots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquilard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: YGANIC STY EAKING IN 24 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is su X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes X Water Table Present? Yes X Saturation Present? Yes X	fficient)	ving Roots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4 Shallow Aquilard (D3) FAC-Neutral Test (D5)
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US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Monterey Peninsula Hired Gu	idway c	ity/County: Cash	ville/Monterey	Sampling Date: _(0-19-09
Applicant/Owner: TAMC	0		State: CA		
Investigator(s): JD20H		ection, Township, Ra	inge:		
Landform (hillslope, terrace, etc.):	1	ocal relief (concave,	convex, none): COVIC	ave slope	(%):
1000			_ Long:		
Soil Map Unit Name: Pachelo Clay Loa			NWI classific		
Are climatic / hydrologic conditions on the site typical for			the second s		
Are Vegetation Soil, or Hydrology		1		and the second	No
Are Vegetation Soil, or Hydrology			"Normal Circumstances" p		_ NO
SUMMARY OF FINDINGS - Attach site m			eeded, explain any answe		ures etc.
for all the second s	_ No				
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes		Is the Sampled		V	
Wetland Hydrology Present? Yes	No X	within a Wetla	nd? Yes	No	
2%		0.0	ch !-		
disturbed by mantaing it as a	a channel	- near ag. the	2/0/5		1
		1025 marces according to 1			
VEGETATION	Al - Luis	B. L. L. P. I	1.5		
Tree Stratum (Use scientific names.)		Dominant Indicator Species? Status	Dominance Test work Number of Dominant Si		
1. None			That Are OBL, FACW, o	or FAC: 2	(A)
2			Total Number of Domin		
3.			Species Across All Stra		(B)
4	والمستغلبية تسبيل	فسندبثكم فسسمه	Percent of Dominant Sp	necies /	~
Total C Sapling/Shrub Stratum	Cover:		That Are OBL, FACW, o	or FAC: _100	90 (A/B)
1. None			Prevalence Index worl	ksheet.	
2			Total % Cover of:		N.
3.			OBL species		
4			FACW species		
5			FAC species	x 3 =	
	Cover:		FACU species	x 4 =	
Herb Stratum 1. PDIY payon monspeliensis	0.19.	Y FARN	UPL species	x 5 =	
2. Contrain maculatum	<u> </u>	Y FACH	Column Totals:	(A)	(B)
3		I IAON	Prevalence Index	= B/A =	
			Hydrophytic Vegetatio		
4 5		and the second se	Dominance Test is		
6			Prevalence Index is		
7			Morphological Ada	ptations ¹ (Provide su	pporting
8				s or on a separate sh	
	over:		Problematic Hydrop	phytic Vegetation' (E	xplain)
Woody Vine Stratum			a destruction of		1.1.1.1
1			¹ Indicators of hydric soil be present.	and wetland hydrold	ogy must
2		······································			
20	over: Cover of Biotic Cru	et.	Hydrophytic Vegetation Present? Yes	s_X_ No	
Remarks:	over of Blotic Cru	51	Flesent: 16	»_ <u>W</u> NO	2
					-
Next to Open water					1
					الذ المعرومات

US Army Corps of Engineers

	15
Sempling Point:	10

Introduction Sector (model) Sector (model) Sector (model) Sector (model) Rem C-20 ID YR. 3/1 Silt Silt Silt Silt C-20 ID YR. 3/1 Silt Silt <silt< td=""> Silt Silt</silt<>	narks
Type: C=Concentration. D=Depletion. RM=Reduced Matrix: *Location: PL=Pore Lining. RC=Root Channel, M=Matrix: Yigh: Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic H Histo: Histo: Sindy Redxx (S5)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic H Histic Epidedin (A2) Stripped Matrix (S6) 2 cm Muck (A9) (LRR C) Black Histic (A3) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Straffied Layers (A5) (LRR C) C Depleted Matrix (F2) Red Parent Material (TF2) Straffied Layers (A5) (LRR C) C Depleted Matrix (F2) Red Parent Material (TF2) Straffied Layers (A5) (LRR C) C Depleted Matrix (F2) Red Parent Material (TF2) Straffied Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Straffied Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Straffied Layers (A5) (LRR C) Depleted Matrix (F2) Red X0 Expressions (F8) Straffied Layers (A5) (LRR C) Red X0 Expressions (F8) Indicators of hydrophylic vege wettand hydrology must be estrictive Layer (If present): Type:	and the second second
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Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F16) Hydrogen Sulfde (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F16) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Tim Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Indicators of hydrophylic vege wetland hydrology must be setricitive Layer (if present): Type:	ydric Solls ³ :
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Image: constraint of the secondary indicators is sufficiently in the sufface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) *Indicators of hydrophylic vege wetland hydrology must be Cestricitive Layer (if present): Type: Depth (inches): Kemarks: Soil d isftwr/beck - nut+ a mathive soil in its mative cond ifficing - soil functions (2 condary indicators: YDROLOGY Vertiand Hydrology Indicators: Surface Water (A1) Surface Water (A1) Saturation (A3) Aquestic Invertebrates (B12) Drink posits (B2) (Nonriverine) Drink posits (B2) (Nonriverine) Drink cosits (B2) (Nonriverine) Drink cosits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Kater Present? Yes No X Depth (inches): Water Sta	
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Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Saturative Layer (If present): Hydric Soil Present? Yes_ Depth (Inches): Hydric Soil Present? Yes_ Remarks: Soil dishurbed - not-a native Soil in its Mative Cond itson - Soil formed mode YDROLOGY Secondary Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) Strict Water (A1) Sail Crust (B11) Strict Water (A1) Biolic Crust (B12) Strict Water (A1) Biolic Crust (B12) Strict Water (A1) Sail Crust (B13) Strict Water (A1) Sail Crust (B13) Staturation (A3) Aquatic Invertebrates (B13) Staturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sufface Odor (C1) Staturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (C1) Staturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquilard (D2) Surface So	
	station and
Type:	present.
Depth (Inches): Hydric Soil Present? Yes	
Temarks: Soil disturbed - not a native soil in its native condition - soil twned masses YDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2c) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (R Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (B1) Saturation (A3) Aquatic Inverterates (B13) Drainage Patterns (E Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water T Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (0) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Water -Stained Leaves (B9) Cther (Explain in Remarks) Shallow Aquitard (D2) Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water and Hydrology Present? Yes Not X Depth (in	1990 - AND 1
Itemarks: Soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in its native condition - soil twored mains in the soil disturbed - not a native soil in the soil of the so	X No
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	or more required)
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Water-Stained Leaves (B9) FAC-Neutral Test (D Field Observations: Surface Water Present? Yes No X Depth (inches): Nater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	3)
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includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	NU
Remarks:	

US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM - Arid West Region

	State: <u>CA</u> Sampling Point: <u>35</u>
	hip, Range:
andform (hillslope, terrace, etc.): bittom of channel Local relief (col	
ubregion (LRR): LRP C Lat:	Long; Datum;
oil Map Unit Name: Pachelo Clay Loam	NWI classification:
re climatic / hydrologic conditions on the site typical for this time of year? Yes $_$ \bigwedge	_ No (If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
re Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map showing sampling p	oint locations, transects, important features, etc
	ampled Area Wetland? Yes No
Remarks:	
area is waters	
EGETATION	
Absolute Dominant Ind Tree Stratum (Use scientific names.) % Cover Species? St	atur
	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	
3.	Total Number of Dominant Species Across All Strata: (B)
4	
Total Cover:	That Are OBL, FACW, or FAC: N/A (A/B)
Sapling/Shrub Stratum	
	Prevalence Index worksheet:
k	ELOW-
	FAC species x 3 =
Total Cover:	FACU species x 4 =
lerb Stratum	UPL species x 5 =
Attiplex mangularis 5% N/A N	L Column Totals: (A) (B)
	andre spatial and a spatial state of the spatial st
	Prevalence Index = B/A =
k,	Hydrophytic Vegetation Indicators:
· · · · · · · · · · · · · · · · · · ·	Dominance Test is >50% Prevalence Index is ≤3.01
)	Prevalence index is \$3.0 Morphological Adaptations ¹ (Provide supporting
	data in Remarks or on a separate sheet)
5	Problematic Hydrophytic Vegetation ¹ (Explain)
Noody Vine Stratum	180
· · · · · · · · · · · · · · · · · · ·	¹ Indicators of hydric soil and wetland hydrology must
2	be present.
Total Cover: % Bare Ground in Herb Stratum % Cover of Biotic Crust	Hydrophytic Vegetation Present? Yes NoX
Remarks:	· · · · · · · · · · · · · · · · · · ·
i i i i i i i i i i i i i i i i i i i	A CALLAND A MONTE OLOG
Remarks: Mostly Unvegetated - Very Likely Mainta	livied over whole area

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SOIL

Sampling Point: _____

Profile Description: (Describe to the depti Depth Matrix	n needed to document Redox Fe		or comm	I THE BRACHTER OF HIDTCALOUS.)
(inches) Color (moist) %		% Type'	Loc2	Texlure Remarks
0-4 10412 312	Onder Concerning	0%		Sandysilt
4-16 Gier 125N				silt muck worganics
Type: C=Concentration, D=Depletion, RM=	Reduced Malrix ² I o	cation: Pl =Por		C=Root Channel, M=Matrix.
Hydric Soli Indicators: (Applicable to all L			e ching, r	Indicators for Problematic Hydric Solis ³ :
Histosol (A1)	Sandy Redox (S			1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix			2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky M			Reduced Vertic (F18)
Hydrogen Sulfide (A4)	X Loamy Gleyed N			Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix			Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Sur			
Depleted Below Dark Surface (A11)	Depleted Dark 8	and the second		
Thick Dark Surface (A12)	Redox Depressi			³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (Fi	91		wetland hydrology must be present.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):		Y area		weitand hydrology must be present.
	*			the second se
Type:				Hydric Soll Present? Yes X No
Depth (inches):				Hydric son Present? Tes / NO
Remarks: Organic Streaking In	2nd layer			
organic Streaking in	2nd layer			
organic Streaking in Hydrology	2nd layer			Secondary Indicators (2 or more required)
Organic Streaking In HYDROLOGY Welland Hydrology Indicators:				
AYDROLOGY Welland Hydrology Indicators: Primary Indicators (any one Indicator is suffic	cient)			Water Marks (B1) (Riverine)
AYDROLOGY Welland Hydrology Indicators: Primary Indicators (any one Indicator Is suffic Surface Water (A1)	ient) Salt Crust (B1	1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
AYDROLOGY Welland Hydrology Indicators: <u>Primary Indicators (any one Indicator is suffic</u> <u>X</u> Surface Water (A1) <u>K</u> High Water Table (A2)	tient) Salt Crust (B1 Biotic Crust (B	1) 12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Organic Styleaking in HYDROLOGY Welland Hydrology Indicators: Primary Indicators (any one indicator is suffic _X Surface Water (A1) _K High Water Table (A2) _K Saturation (A3)	ient) Salt Crust (B1 Biotic Crust (B Aquatic Inverte	1) 12) sbrates (B13)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Organic Styleaking in HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffice	ient) Salt Crust (B1 Biotic Crust (B Aquatic Inverte Hydrogen Sulf	1) 12) ebrates (B13) ide Odor (C1)	Living Ro	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Organic Styleaking in HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffice	tient) Salt Crust (B1 Biotic Crust (B Aquatic Inverte Hydrogen Sulf Y Oxidized Rhize	1) 12) :brates (B13) ide Odor (C1) ospheres along		
Organic Styleaking in HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	ient) Sall Crust (B1 Biotic Crust (B Aquatic Inverte Hydrogen Sulf Y Oxidized Rhize Presence of R	1) 12) brates (B13) ide Odor (C1) ospheres along educed Iron (C	4)	
Arganic Styleaking in HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is suffice X Surface Water (A1) K High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	itent) Salt Crust (B1 Biotic Crust (B Aquatic Inverte Hydrogen Sulf Y Oxidized Rhize Presence of R Recent Iron Re	1) 12) brates (B13) ide Odor (C1) ospheres along educed Iron (C eduction in Ploy	4)	
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US Army Corps of Engineers

Applicant/Owner: TAMC		State: Sampling Point:
	Section, Township, Ra	
Landform (hillslope, terrace, etc.): Slope		
		Long: Datum:
soil Map Unit Name: Bay Wood Sand 2-1590 Slope		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year		N N
Are Vegetation N., Soil N., or Hydrology N. significantly		"Normal Circumstances" present?- Yes X No
Are Vegetation N. Soll N. or Hydrology N naturally pro		eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing		
Hydrophytic Vegetation Present? Yes No	is the Sampled	
Hydric Soil Present? Yes No _X Wetland Hydrology Present? Yes No _X	within a Wetiar	nd? Yes No
Remarks:		
	at a star a s	ितिहर्ष्ट्रसम्बद्धाः स्थलम् । देवस्यितस्य स्थलम् विद्यालयम् । स्थल
	a kana kana kana kana kana kana kana ka	· · · · · · · · · · · · · · · · · · ·
	<u>terreta en esta en esta</u> En esta esta en	arter 41 (1996) en 1997 (1997) 1997 - Maria Maria, 1997 (1997) 1997 - Maria Maria, 1997 (1997)
VEGETATION	Dominant Indicator	Dominance Test worksheet:
	Species? Status	Number of Dominant Species
1. None	. <u></u>	That Are OBL, FACW, or FAC:
		Total Number of Dominant
3. <u></u>	·	Species Across All Strata
4		Percent of Dominant Species 0%
Sapling/Shrub Stratum		That Are OBL, FACW, or FAC:
1. NONL		Prevalence Index worksheet:
2.		Total % Cover of: Multiply by:
3. <u>A status D D'A seconda de la se Seconda de la seconda de la</u>		OBL species x 1 = FACW species x 2 =
	· · · · · · · · · · · · ·	FAC species x 2 =
Total Cover;	N all the first	FACU species x 4 =
Herb Stratum	$\sim 10^{-10} {\rm M}_{\odot}$	UPL species x 5 =
1 Bromus diandrus 75%.		Column Totals: (A)
2 Kubus ureinus 575 3 otter grasses 1575	N HAC	Prevalence Index = B/A =
3. <u>Onergrubes</u>		Hydrophytic Vegetation Indicators:
5	a <u>and a sea ann</u> ann an Aireanna ann an Aireanna Aireanna ann an Aireanna ann an	Dominance Test is >50%
6.	······	Prevalence Index is ≤3.01
7		Morphological Adaptations ¹ (Provide support date in Remarks or on a separate sheet)
8	. 	Problematic Hydrophytic Vegetation ¹ (Explain
Total Cover:	• ¹ to the set	
Woody Vine Stratum	a and a second	¹ Indicators of hydric soll and wetland hydrology n
2,		be present.
Total Cover:		Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic C	rust	Vegetation Present? Yes NoX
Remarks:		
F		

and and a second se •

• ·

Profile Description:(Describe to the depth ne Matrix Color (moist) \mathcal{M} <td< th=""><th>eded to document the Indicator Redox Features</th><th>or confirm</th><th>the absence of</th><th>Indiantoro \</th><th></th></td<>	eded to document the Indicator Redox Features	or confirm	the absence of	Indiantoro \	
(inches) Color (moist) % C	Redox Features			muicaurs.)	
				Remarks	
0-70 10712 315	olor (moist) % Type'	Loc'	<u>Texture</u>	KCINAIAS	<u></u>
			Sano-		
	·				<u></u>
(a) and (b) and (c)		a and set	en en entre entre de la composition de la compos		
				 Second Strength Landston Strength Strength 	en e
				an a she garada a shekar	
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				<u>an an Anna an Anna</u> An Anna Anna Anna Anna Anna Anna Anna A	
			ب جندستعشیت		
Type: C=Concentration, D=Depletion, RM=Red	uced Malrix. ² Location: PL=Po	re Lining, R	C=Rool Channel,	M=Matrix.	
Hydric Soli Indicators: (Applicable to all LRR	s, unless otherwise noted.)		Indicators for	Problematic Hydric So	bils":
Histosol (A1)	Sandy Redox (S5)	sant tanan sa		k (A9) (LRR C)	
Hislic Epipedon (A2)	Stripped Matrix (S6)	an an tha an tha a' tha an tai tha an tai		k (A10) (LRR B)	n senten en L'handeren
Black Histic (A3)	Loamy Mucky Mineral (F1)			Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)			nt Material (TF2)	
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		Uther (EX	plain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6) Depleted Dark Surface (F7)				
Depleted Below Dark Surface (A11)	Redox Depressions (F8)		ter e ter	an a	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Vernal Pools (F9)	en en en en entre en	³ Indicators of	hydrophytic vegetation a	nd
Sandy Mucky Millerar (S1) Sandy Gleyed Matrix (S4)				drology must be present	
Restrictive Layer (if present):	and the second	<u></u>	1		
Туре:	land and the second	Yan Karang			
Depth (inches):	and the second	e a strand	Hydric Soll Pr	esent2 Yes	No
IYDROLOGY					
Wetland Hydrology Indicators:	- 100 - 10 - 10 - 10 - 10 - 10 - 10 - 1		Seconda	ry Indicators (2 or more i	required)
Primary Indicators (any one indicator is sufficient	<u>) </u>		Wate	er Marks (B1) (Riverine)	
Surface Water (A1)	Salt Crust (B11)		Sed	ment Deposits (B2) (RIV	erinə)
High Water Table (A2)	Biolic Crust (B12)		Drift	Deposits (B3) (Rivertne	}
Saturation (A3)	Aquatic Invertebrates (B13)		Drah	nage Patterns (B10)	
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)			Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along	and the second		Muck Surface (C7)	
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C			fish Burrows (C8)	
Surface Soil Cracks (B6)	Recent Iron Reduction in Ploy	wed Soils (C		ration Visible on Aenal I	magery (CS
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)			low Aquitard (D3)	
Water-Stained Leaves (B9)	· · · · · · · · · · · · · · · · · · ·	فتتحص والمتناه	FAC	-Neutral Test (D5)	
Fleid Observations:	an a			n a shekara na shekara	
Surface Water Present? Yes No		<u> – k</u> ora		and the second sec	an sa kija s
Water Table Present? Yes No	Depth (inches):			and a serie	and Also
Saturation Present? Yes No	Depth (inches):	Wetl	and Hydrology P	resent? Yes	No X
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous ins	spections),	if available:	<u>an de la constante de la consta</u>	
311/2/14 	and a second second Second second			· · · · · · ·	
Remarks:	an a				
Woindicators		· · · · · · · · · · · · ·		۲۰۰۰ ۲۰۰۰ ۱۹۹۹ - ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۱۹۹۹ - ۲۰۰۰ ۲۰۰۰ ۲۰۰۰	andra Service and a service Service and a service and a
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IS Army Corps of Engineers		and the last	an an sao an sao Ngana	Arid West - Vers	ion 11-1-2
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Project/Site: Monterry Peninsula FIM. Applicant/Owner: TAME	$\omega_{\rm esc} = -\frac{Q}{2}$		State: CA	Sampling Date: <u>\0 -</u> Sampling Point:
Investigator(s) UDGUH		Section, Township, R	ange:	
Landform (hillslope, terrace, etc.):	sana an	Local relief (concave	, convex, none): <u>CDA (</u>	aveslope (
Subregion (LRR): UK(CC	Let:		Long:	Dalum:
Soil Map Unit Name: Baywood Sand	2-1592 81000	5		fication:
Are climatic / hydrologic conditions on the site b				
Are Vegetation N, Soil N, or Hydrolo			*Normal Circumstances	
Are Vegetation, Soll, or Hydrolo	gy <u>N</u> naturally pro	blematic? (If r	teeded, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS - Attach	site map showing	sampling point	locations, transec	ts, important featu
Hydrophytic Vagetation Present? Yes	<u> </u>		in the second second	ender son en
Contraction of the second se	<u>X</u> No	is the Sample within a Weth		No
Wetland Hydrology Present? Yes	<u> X </u>	WUIII a HGU		· · · · · · · · · · · · · · · · · · ·
Remarks:		at the state of the		
		en bezer bereitig: Beren Strengen im	energe (* 1717) Standards	는 모두 한 도착한 학교는 모두 다. 1996년 - 1997년 - 1997
VEGETATION		et and a second seco	1992 (* ¹⁹	a service a service of the service o Service of the service of the
Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Indicator Species? Status		
1. NOR	78 COVEL	Obcolest Jolanda	Number of Dominant That Are OBL, FACV	
2.		·	Total Number of Don	aineat 0
3.			Species Across All S	
4			Percent of Dominant	Species
Sapling/Shrub Stratum	Total Cover:		That Are OBL, FACV	Species V, or FAC:
1 Salix 12510/epis	190	N FACW	Prevalence Index w	
2.	·		Tolal % Cover o	f: Multiply by
3. <u></u>	<u></u>		_ OBL species	x1=
4.	· · · · · · · · · · · · · · · · · · ·		FACW species	x2=x3=
5. <u></u>	Total Cover:	<u>.</u> 		x 4 =
Herb Stratum		-		x 5 =
1. Ispha latitolia	<u>30/2</u>	Y OBL	- Column Totals:	(A)
2 RUBUS UVSINUS	50%	<u>Y FAC</u>	- Prevalence Ind	ex = B/A =
3		ـــــــــــــــــــــــــــــــــــــ	- Hydrophytic Vegeta	and the second
45.	<u></u>		Dominance Test	
6.			Prevalence inde	
7.			_ Morphological A	daptations ¹ (Provide sup inks or on a separate sho
8				rophytic Vegetation ¹ (E)
Woody Vine Stratum	Total Cover:	.		
				soil and wetland hydrolo
2		<u>an na akana</u>	be present.	
	Total Cover:	_	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum	% Cover of Biotic C	Crust		Yes_X_ No
Remarks:				
US Army Corps of Engineers				Arid West - Versio
on vinit order of millingers				

SOIL

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Sampling Point: 3837

Profile Description: (Describe to the depth needed to document the indicator or confin	m the absence of indicators.)
그는 것 같은 이 가슴에 가슴을	
Depth <u>Matrix Redox Features</u> (inches) Color (moist) <u>% Color (moist) % Type' Loc²</u>	Texlure Remarks
)-7 107e 2/2	logmy sand
70 15121	sand
$\frac{2}{2} \frac{\omega}{10} \frac{10}{10} \frac{10}{1$	Possil
ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining,	RC=Root Channel, M=Matrix.
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ :
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) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Reduced Verlic (F18) Red Parent Material (TF2)
_ Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) _ Stratified Layers (A5) (LRR C) X 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)	
_ Sandy Mucky Mineral (S1) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and wettand hydrology must be present.
_ Sandy Gleyed Matrix (S4) astrictive Layer (If present):	weitene Hydology filda be present.
Type:	
Depth (inches):	Hydric Soll Present? Yes X No
emarks:	
No mottling	
and a state of the	
/etland Hydrology Indicators:	Secondary Indicators (2 or more regulred)
/etland Hydrology Indicators: rimary indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
/etland Hydrology Indicators: rimary indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
/etland Hydrology Indicators: rimary Indicators (any one Indicator Is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biolic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
(etland Hydrology Indicators: rImery Indicators (any one Indicator Is sufficient)	Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
(etiand Hydrology Indicators: rimery Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
fetland Hydrology Indicators: rimery Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
fetland Hydrology Indicators: rimary indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
(etiand Hydrology Indicators: (Imary Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
fetland Hydrology Indicators: climary Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
(etland Hydrology Indicators: (Imary Indicators (any one Indicator Is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
fetland Hydrology Indicators: climary Indicators (any one Indicator Is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
fetland Hydrology Indicators: climary Indicators (any one Indicator Is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquifard (D3) FAC-Neutral Test (D5)
fetland Hydrology Indicators: clinary Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
/etland Hydrology Indicators: //mary Indicators (any one Indicator Is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ods (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: rImery Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ods (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2) Biolic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Ro Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes Yes No Depth (inches): Saturation Present? Yes No Depth (inches): J1A Water No Depth (inches): J1A Water Staturation Present? Yes No Depth (inches): J1A Water No Depth (inches): J1A Water Staturation Present? Yes No Depth (inches): J1A Water No Depth (inches): J1A	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitand (D3) FAC-Neutral Test (D5) Iand Hydrology Present? Yes No
/etiland Hydrology Indicators: climary Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) land Hydrology Present? Yes No
fetland Hydrology Indicators:	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitand (D3) FAC-Neutral Test (D5) Iand Hydrology Present? Yes No
/etiland Hydrology Indicators: climary Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitand (D3) FAC-Neutral Test (D5) Iand Hydrology Present? Yes No
/etiland Hydrology Indicators: climary Indicators (any one Indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquifard (D3) FAC-Neutral Test (D5) land Hydrology Present? Yes No

US Army Corps of Engineers

2 ! 2 !	Applicant/Owner: TAMC	NUT QU	June	зкусоцту	·	State: CA Sampling Date: 6-19-0
· · ·	10911	1998 - 1998 -		Section, To		
	andform (hillislope, terrace, etc.): <u>Flat Grea</u>	after to	woF	Local relief	(concave, (nge:
	Subregion (LRR): LRP C		Siq ²⁴ . Lat:		•••••	Long; Dalum:
	Soil Map Unit Name: Bay WOUD Sand	2-15909	SIDDES			NWI classification:
	Are climatic / hydrologic conditions on the site ty					(if no, explain in Remarks.)
	Are Vegetation, Soil, or Hydroiog	1				Normal Circumstances" present? Yes X No
	Are Vegetation, Soil, or Hydrolog	1				eded, explain any answers in Remarks.)
r	SUMMARY OF FINDINGS - Attach s	site map s	nowing	sampun	g point i	ocations, transects, important features,
	Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	X No			e Sampled in a Wetlar	Area Id? Yes <u> </u>
	Remarks:				<u>alta esta da anna</u> Na statuta esta	
				14 A.	n a sta Maria	
				1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	ingla nadak Tanan sara	
					and and a second se	
	VEGETATION	<u></u>	Absolute	Dominant	Indicator	Dominance Test worksheet:
NG YEL	Tree Stratum (Use scientific names)	2	% Cover	Specjes?	Status	Number of Dominant Species
	1. Salix lasidlepis		70%	<u> </u>	ACV	That Are OBL, FACW, or FAC:
	2				·	Total Number of Dominant
			<u> </u>		· ······	Species Across All Strate: 0 (1
		Total Cover:			· ······	Percent of Dominant Species That Are OBL, FACW, or FAC: 10095 (A
	Sapling/Shrub Stratum				SAC. 1	
	1. Salix lasidepis		1070	<u>N</u>	FACW	Prevalence Index worksheet: Total % Cover of: Mulliply by:
	2. Rubus ursinus		1075		1/1/	Total % Cover of: Mulliply by: OBL species x 1 =
					·	FACW species x 2 =
	5				· · · · · · · · · · · · · · · · · · ·	FAC species X 3 =
		Total Cover:			g a tres av 15 Na Sa	FACU species x 4 =
	Herb Stratum		a the state of	e e Aleren Aleren aleren		UPL species x 5 =
	1. 2. Juncus effusus		409		DBL	Column Totals: (A)
	3 Bachharis Salicifolia		107.		FACW	Prevalence Index = B/A =
	1 atentia anserina		140	N	OBL	Hydrophytic Vegetation Indicators:
na na series Na filia	5		tartar		n ya mana ya kata kata • Manana Aliji -	Dominance Test Is >50%
	6,	·····			• <u></u>	Prevalence Index is ≤3.0 ⁵
	7	· · · · .				Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)
	8					Problematic Hydrophytic Vegetation (Explain)
	Woody Vine Stratum	Total Cover:		•	an e e e serie L	
	1	en egeneration en	1997 - A.			¹ Indicators of hydric soll and wetland hydrology mube present.
	2		n nang kara		21 (19 3) 19 	
	i and a second second	Total Cover:		-		Hydrophytic Vegetation
	% Bare Ground In Herb Stratum	_ % Cover	of Blotic C	nust	<u>.</u>	Present? Yes X No
	 A state of the sta		and the second			
	Remarks:					

OIL Profile Desc	ription; (Describe)	the denth	needed to docu	ment the indicator or	confirm the a	bsence of in	dicators)	
		re dia ashtu			- 291 (411 (1 (1 (2 (2	racting At IU	uvalu) 3. /	
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	nvestigator(s): (23.74) h	Se	ection, Tow	nship, Rai	inge:
L	Alloronn (millslobe, (criace) etc.).				convex, none): (UN(ave Slope (%): 57
8					Long: Datum:
	Soll Map Unit Name: Baywood Sand 2.1590 S	•			NWI classification:
	Are climatic / hydrologic conditions on the site typical for this t				(If no, explain in Remarks.)
	Are Vegetation N Soil N or Hydrology N sig				*Normal Circumstances" present? Yes <u>X</u> No
	Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> hat			-	eeded, explain any answers in Remarks.)
1	SUMMARY OF FINDINGS - Attach site map si	howing s	ampling	point l	locations, transects, important features, et
	Hydrophylic Vegetation Present? Yes No. Hydric Soil Present? Yes No. Wetland Hydrology Present? Yes No.	X	1.11	Sampled 1 a Wetlar	
-	Remarks:	:	: ¹¹	ang sa sa	
	e en la construcción de la constru La construcción de la construcción d		가 있다. States States	ener ale sere. Recenter est	
			<u></u>		
1	VEGETATION			n an stadione An stadione	
	지수는 것 같은 것 같	Absolute [% Cover _ \$	Dominant Species?		Dominance Test worksheet: Number of Dominant Species
	1. Salix lasidlepis	70%	<u> </u>	FACW	That Are OBL, FACW, or FAC: (A)
	2. <u></u>				Total Number of Dominant
		<u></u>			Species Across All Strata: (B)
	4 Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (ARE
	Sapling/Shrub Stralum	50%	Y	FAC	Prevalence Index worksheet:
	1. <u>Rubus Luginus</u>	3015	·	1/30	Total % Cover of: Multiply by:
	3.			<u> </u>	OBL species x 1 =
81. 5	4			·	FACW species x 2 =
an di An An An An	5		,		FAC species x3 =
	Herb Stratum			la Norsean.	FACU species x 4 = UPL species x 5 =
	1. None	de la companya. Herena de la companya			Column Totals: (A) (B
	2			<u></u> _	Prevalence Index = B/A =
	3	<u> </u>			Hydrophytic Vegetation Indicators:
	4 5.				Dominance Test is >50%
an An An N	6		······	· · · · ·	Prevalence Index is ≤3.0
	7 .		 		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	8,Total Cover.	······································	······································		Problematic Hydrophytic Vegetation ¹ (Explain)
	Woody Vine Stratum	· · ·	аны алба А	kolefykster Solota	(a) A second se Second second seco
					Indicators of hydric soil and wetland hydrology must be present.
	2 Totai Cover:				Hydrophytic
	la serve 🗂 🚽 serve serve	of Blotic Cru	ict		Vagetation Present? Yes X No
	Remarks:				
	US Army Corps of Engineers				Arid West - Version 11-1-2

SOIL

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Depth <u>Matrix</u>	Redox Feat	ures Type'	Loc ²	Texture	Remarks
$\frac{\text{color}(\text{moist})}{10 + 12} = \frac{6}{2}$	Color (moist) %			Sand	
0-22 10 YE 2/1				Sand	······································
$0^{-}LL$ $10^{+}Q_{1}$ -				<u>Ann</u> .	en e
				<u> </u>	
			,		
pe: C=Concentration, D=Depletion, RM=Re	duced Matrix ² Loca	tion: PI =Pore	Lining R	C=Rool Channe	el M=Malrix.
dric Soll Indicators: (Applicable to all LR			canny, ri	Indicators f	or Problematic Hydric Solls ³ :
Histosol (A1)	Sandy Redox (S5)			1 cm M	uck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S				uck (A10) (LRR B)
"Błack Histic (A3)	Loamy Mucky Min			······	d Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Ma				rent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F Redox Dark Surfa	•		Other (E	Explain in Remarks)
_ 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11)	Depleted Dark Suna				
Thick Dark Surface (A12)	Redox Depression				
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	•			f hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	na serie de la construcción de la c	e <u>Se a se se san san</u> an		wetland l	nydrology must be present.
strictive Layer (if present):		· · ·	 		
Туре:	***				and a physical contract stress of the state
Depth (inches):	and the second				
	deeployer.	not a	n in		resent? Yès <u>No X</u>
marks: Depleted matrix only in		not a	n (a		
marks: Depleted matrix only in DROLOGY		not a	n (n	dicator	
marks: Depleted Matrix Only in DROLOGY alland Hydrology Indicators:		not a	n (n	dica toy	
emarks: Depleted Matrix Only in DROLOGY alland Hydrology Indicators: imary Indicators (any one Indicator is sufficie	nU	not a	nin	dica tvy <u>seconc</u> Wa	<u>ary indicators (2 or more required)</u> ater Marks (B1) (Riverine)
emarks: Depleted Matrix Only in DROLOGY alland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1)	nt) Sait Crust (B11)		n (n	dica tvy <u>second</u> Wa Se	<u>ary Indicators (2 or more required)</u> ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
marks:)epleted matrix only in DROLOGY alland Hydrology Indicators: Imary Indicators (any one indicator is sufficie _ Surface Water (A1) _ High Water Table (A2)	nt) Salt Crust (B11) Blotic Crust (B12	»)	n (n	<u>Second</u> <u>Second</u> Second Second Dri	<u>ary indicators (2 or more required)</u> ater Marks (B1) (Riverine)
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marks:)epleted matrix only in DROLOGY alland Hydrology Indicators: Imary Indicators (any one Indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3)	nt) Salt Crust (B11) Biotic Crust (B12 Aquatic Inverteor	?) rates (B13) ≥ Odor (C1) pheres along L	iving Roo	Second Second	Jary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Pattems (B10) y-Season Water Table (C2)
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US Army Corps of Engineers

Applicant/Owner:	red Guidusky cin	,		Sampling Date: <u>0-19-0</u> Sampling Point:
Investigator(s): JDAJH		ction, Township, Ra		
Landform (hillslope, terrace, etc.):	<i>x</i>		1 ()	Siope (%): <u>C</u>
Subregion (LRR): LPL C			_ Long:	
1	ind 27590 slope	<i>u</i>		
Are climatic / hydrologic conditions on the site				marks.) esent? Yes <u>X.</u> No
Are Vegetation, Soil, or Hydro Are Vegetation, Soil, or Hydro			eeded, explain any answer	
SUMMARY OF FINDINGS - Attack		ampling point l	ocations, transects,	important features, e
Hydric Soil Present?	es No es No es No	is the Sampled within a Wetlan		No <u></u> No
Remarks:	an Phil	- 	·	
on traintrocks at t	1)11 + 0 yu	an an Agrica. An Anna Agrica		
		n i servicetore e su Nucleare service a		
VEGETATION		··· ·		
······································	Absolute D	ominant Indicator	Dominance Test works	høet:
Tree Stratum (Use scientific names.)	% Cover S	Species? Status	Number of Dominant Sp	
1. None		······	That Are OBL, FACW, o	rFAC:(A)
2	······		Total Number of Domina	
4			Species Across All Strat	
	Total Cover:		Percent of Dominant Spe That Are OBL, FACW, o	
Sapling/Shrub Stratum				
1. None	<u></u>		Prevalence Index work Total % Cover of:	Sneet: Multiply by:
2.	**************************************		OBL species	x1=
4			FACW species	x 2 =
5		· · · · · · · · · · · · · · · · · · ·	FAC species	x 3 =
	Total Cover:		FACU species	x 4 =
Herb Stratum 1. Carpobrotus edulis	-9	Y NU	UPL species	x 5 =
2. Rubus Unsilvus	<u> </u>	N FAC	Column Totals:	(A) (
3. Avena barbata	5%	Y NL	Prevalence Index	= B/A =
4			Hydrophytic Vegetation	
5.			Dominance Test is :	•50%
6			Prevalence Index is	
7			Morphological Adap	tations' (Provide supporting or on a separate sheet)
8				hytic Vegetation ¹ (Explain)
Woody Vine Stratum	Total Cover:	1. Start		
1	·	n an		and wetland hydrology must
2.	antaria de la companya de la company	·····	be present.	i deservationes de la constance de la constance de la constance de la constance de la constance de la constance de la constance de la constance
	Total Cover:	· · · · · · · · · · · · · · · · · · · 	Hydrophytic	
% Bare Ground in Herb Stratum		st	Vegetation Present? Yes	No 🗶

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e and the second s	depth needed to document the indicator or con Rodox Features		ut muicators.)
Depth Matrix (inches) Color (moist) %	Redox Features		Remarks
			 B. Cardon and S. Santa and S. S
			<u> Anna ann an an</u>
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	RM=Reduced Matrix. ² Location: PL=Pore Linin	g, RC=Rool Chan	nel, M≃Matrix. for Problematic Hydric Solls ⁹ :
Hydric Soll Indicators: (Applicable to		e to a second	
Histosol (A1)	Sandy Redox (S5)		Auck (A9) (LRR C)
Hislic Epipedon (A2)	Stripped Matrix (S6)		Auck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		ed Verlic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		arent 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)		and the second	وأفأر والأوطرة الأشركونان وإرجاز بالرا
Thick Dark Surface (A12)	Redox Depressions (F8)	8	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	1 A A A A A A A A A A A A A A A A A A A	of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		wetland	hydrology must be present.
Restrictive Layer (if present):	n general de la construcción de la Construcción de la construcción de Construcción de la construcción de		
Type:			
Depth (inches):	n an an Anna a Anna an Anna an	Hydric Soll	Present? Yes No
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HYDROLOGY	sufficient)	<u>Seco</u> r	valer Marks (B1) (Riverine)
HYDROLOGY Wefland Hydrology Indicators:		<u>Secor</u> V S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
HYDROLOGY Wetland Hydrology Indicators: Primery Indicators (any one indicator is s	sufficient)	<u>Secor</u> V S	valer Marks (B1) (Riverine)
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1.1-	MC	<u> </u>		State: <u>CA</u>	Sampling F	Point:
			on, Township, Rar		Call	Slope (%): 20
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Subregion (LRR):	wwood sand 2		ses		ssification:	
	iditions on the site typical for th			(if no, explain		
	, or Hydrology			Normal Circumstanc		s X No
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	NGS – Attach site map	4 T				a dati
En source and a source of the						
Hydrophytic Vegetation Pr Hydric Soil Present?		No No	is the Sampled		v	
Wetland Hydrology Prese	se de la constante de la const	No	within a Wetlan	d? Yes_	<u>X</u> No	
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VEGETATION	· · · · · · · · · · · · · · · · · · ·			4 1 		
T-12 Gandania 201	tille no mac		minant Indicator ecles? Status	Dominance Test	a statistica (No.	
Tree Stratum (Use scier 1. Salix Jasi	DIEDIS	1007,	FACW	Number of Domina That Are OBL, FAG		(A)
2.				Total Number of D	Sec. And Sec. 1	······································
3.				Species Across All		(B)
4				Percent of Domina	nt Species	1.00
Sapling/Shrub Stratum	Total Cove	er:		That Are OBL, FA	W. or FAC:	10072 (AVB)
1. None				Prevalence Index	worksheet:	
2.	lan a serie e serie a serie de la serie			Total % Cover		Multiply by:
3.				OBL species	x i =	
4				FACW species	X2= x3=	The second second second
D. <u>19</u>	Total Cove	محمد المستخدمة المستحمد المتيم 811:		FACU species		
Herb Stratum			a Level Alla.	UPL species	x5=	
1. None		<u> </u>		Column Totals:	(Å)	(B)
2				Prevalence i	ndex = B/A =	
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5.		· · · · · · · · · · · · · · · · · · ·	، مستحدین در مستخدیند. به مستحدین در مستخدیند.	Dominance Te		
6				Prevalence In	and the second sec	anda ana amin'ny fisiana amin'ny fisiana
7	،			data in Rei	narks or on a se	rovide supporting parate sheet)
B	Total Cove	er:		Problematic H	ydrophytic Vege	fation ¹ (Explain)
Woody Vine Stratum			an an Araan an Araan ay ah			
1		and a second s		¹ Indicators of hydri be present.	c soil and wetlan	ia nyarology must
2	Contraction of the second s			Hydrophytic		:
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% Bare Ground In Herb S	ratum % Cove	er of Blotic Crust		Present?		No
Remarks:						
egel The second se						
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Depth		
Depth Matrix(inches)Color (moist)%	Redox Features Color (moist) % Type ¹ Loc ²	TextureRemarks
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Type: C=Concentration, D=Depletion, RM=		RC=Rool Channel, M=Matrix.
lydric Soli Indicators: (Applicable to all I		Indicators for Problematic Hydric Solls ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (\$6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Verilic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2) Other (Explain in Remarks)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)	<u>X</u> Depieted Matrix (F3) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	a segue essay essentia (1995) essentia (1995) essentia (1995) A securit essentia (1995) essentia (1995) essentia (1995)
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		wetland hydrology must be present.
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	الم	Hydric Soll Present? Yes X No
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al Map Unit Name: <u>Paywad Sava 2-157551925</u> NW classification: a climatic / hydrologi conditions on the site bypical for this time of year? Yes X No (if no, explain in Remarks.) a Vegetation M Soil M or Hydrology M isiphicantly disturbed? Are "Normal Circumstances" present? Yes X No a Vegetation M Soil M or Hydrology M isiphicantly disturbed? (if needed, explain any answers in Remarks.) UMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc Hydrophytic Vegetation Present? Yes X No is the Sampled Area Mo is the Sampled Area Mo is the Sampled Area Mo No No is the Sampled Area Mo of Grade - Net Grad due to high three cover . Does Not wheet Acco definition of a wetlawd, Riparian veg, may be what CA Coastal Commiss gurisch and the state of Dominant Indextor Sample Statum (Use sclenitific names.) <u>Mocover States</u> Noter Acco and the states of the Receiver in the states of the Species 1. <u>Satify Grade - Net Grade - Net Grade Dominant Indextor</u> Number of Dominant <u>Indextor</u> Number of Dominant <u>Indextor</u> (Net Receiver - Internet) 2		ocal relief (concave, r	convex, none): Which	<u>(C</u> Slope (%): <u>3-70</u>
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Vegetation	3		Prevalence Index is : Morphological Adaptidata in Remarks of Problematic Hydroph Indicators of hydric sol a	ations ¹ (Provide supporting or on a separate sheet) ytic Vegetation ¹ (Explain) and wetland hydrology must
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¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix. ² Locati	ion: PL=Pore L	ining, RC=Root Ch	annel, M≃Matrix.
Hydric Soll Indicators: (Applicable to				ors for Problematic Hydric Solis ³ :
Histosot (A1)	Sandy Redox (S5)	р	1 ជ	m Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (St	5) · · · · ·		n Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mine			fuced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Mat			t Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F		Oth	er (Explain in Remarks)
1 cm Mück (A9) (LRR D)	Redox Dark Surfac	• •		
Depleted Below Dark Surface (A11			and for the second	
Thick Dark Surface (A12)	Redox Depression: Vernal Pools (F9)	5(ro)	³ Inclicate	ars of hydrophytic vegetation and
Sandy Mucky Mineral (S1)				and hydrology must be present.
Restrictive Layer (if present):			1	
Type:				
Depth (inches):	in a star a s		Hydrie C	oll Present7 Yes No 👱
Remarks:			1 2 1 2	<u></u>
C for of slope - N HYDROLOGY				
HYDROLOGY Wetland Hydrology Indicators:				condary Indicelors (2 or more required Water Marks (31) (9) writing)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is	sufficient)	۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰		Water Marks (B1) (Riverine)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1)	sufficient) Sait Crust (B11)	۰ ۲۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2)	sufficient) Sait Crust (B11) Biotic Crust (B12)	1.44		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is Surface Water (A1) High Water Table (A2) Saturation (A3)	sufficient) Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebre	etes (B13)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non-Iverine)	sufficient) Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebre Hydrogen Suffice	etes (B13) Odor (C1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver	sufficient) Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebre Hydrogen Sulfide Ine)Oxidized Rhizosp	etes (B13) Odor (C1) heres elong Livi		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	sufficient) Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebro Hydrogen Sulfide Ine)Oxidized Rhizosp Presence of Redu	etes (B13) Odor (C1) wheres along Livi uced Iron (C4)	ing Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is 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)	sufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic invertebra Hydrogen Sulfide Ine) Oxidized Rhizosp Presence of Redu Recent Iron Redu	etes (B13) Odor (C1) heres along Livi uced Iron (C4) uction in Plowed	ing Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is 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) Field Observations: Surface Water Present? Yes	sufficient) Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebre Hydrogen Sulfide Ine)Oxidized Rhizosp Presence of Redu Recent iron Redu y (B7)Other (Explain in No XDepth (Inches):	etes (B13) Odor (C1) heres along Livi uced Iron (C4) uction in Plowed Remarks)	ing Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Cincludes capillary fringe) Describe Recorded Data (stream gauge Remarks:	sufficient) Sait Crust (B11) Biotic Crust (B12) Aquatic invertebre Hydrogen Suffde Oxidized Rhizosp Presence of Redu Recent iron Redu y (B7)Other (Explain in No XDepth (inches): No XDepth (inches): No XDepth (inches):	ates (B13) Odor (C1) Interes along Livi Inced Iron (C4) Inction in Plowed Remarks)	ing Roots (C3)	Water Marks (B1) (RiverIne) Sediment Deposits (B2) (RiverIne) Drift Deposits (B3) (RiverIne) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)

project/site: Monterey Peninsula Find	9414 City/Co	ounty: <u>MANN</u>	
Applicant/Owner: TAMC	an a	n Adria Ara Statistica	State:Sampling Point:
nvestigetor(s): JD GJH	and the second se	n, Township, Ra	
andform (hillslope, terrace, etc.):	Local		convex, none): <u>CONCOVE</u> Slope (%): <u>20</u>
Subregion (LRR): LILILC	Lat:		Long:Dalum:
soil Map Unit Name: Baywood Sand	2-157551pp	es -	NWI classification:
Are climatic / hydrologic conditions on the site typical	for this time of year? Ye	s <u> </u>	(If no, explain in Remarks.)
are Vegetation N, Soil N, or Hydrology	Y_significantly disturb	ed? Are '	Normal Circumstances" present? Yes 🔼 No_
Are Vegetation N , Soil N , or Hydrology Λ	naturally problemat	tic? (If ne	eded, explain any answers in Remarks.)
BUMMARY OF FINDINGS - Attach site I	nap showing sam	pling point l	ocations, transects, important features,
Hydrophytic Vegetation Present? Yes /	<u>No</u>	is the Sampled	
Hydric Soil Present? Yes	$- \frac{No}{No} X$	within a Wetian	1d7 Yes No <u>1</u>
Wetland Hydrology Present? Yes Remarks:			
Thes not meet ACDE de	finition of O	* wetla	nd. Riparian regetation m
be under ch asspillor	mmissioni	jurisdi	chon.
		e al anna an an an San an Alain Christian	
VEGETATION			
		inant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.) 1. Sallix lasio legis	<u>% Cover</u> Spec	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:
2		•	
3			Total Number of Dominant Species Across All Strate:(E
4		· · · · · · · · · · · · · · · · · · ·	
Total	Cover:		Percent of Dominant Species (0076 (A
Sapling/Shrub Stratum	Dog V	EA.	
1. Rubus Wishus	<u>2018</u>	FAC_	Prevalence Index worksheet:
2.			Total % Cover of: Multiply by: OBL species x i =
 <u>1. Spin sector de la sector de</u>		<u>.</u>	OBL species x 1 = FACW species x 2 =
			FAC species x 3 =
5T	Cover:		FACU species x 4 =
Herb Stratum			UPL species x 5 =
1. Carlex barbarae	<u>1040 V</u>	1/10/13	Column Totals: (A) (
2 Bromus diandrus	40% 7	<u></u>	
3 Raphanus Sadivus	<u>10% Y</u>	UPL	Prevalence index = B/A =
4.			Hydrophytic Vegetation Indicators: Dominance Test is >50%
5.			Dominance rest is >30%
6.			Morphological Adaptations' (Provide supporting
7.			date in Remarks or on a separate sheet)
8. Total	Cover:		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stralum		n an the being	
			Indicators of hydric soll and wetland hydrology mus
			be present.
1) 2.	Cover:		Hydrophytic
2. ¹⁹¹			Vegetation Present? Yes No
2 Total	Cover of Biotic Crust		
2 Total % Bare Ground in Herb Stratum %	Cover of Biotic Crust		
2 Total	Cover of Biotic Crust		
2 Total % Bare Ground in Herb Stratum %	Cover of Bictic Crust		

SO	IL	
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(inches) Color (moist) %		alures % Type'	Loc ²	Texture	Remarks
2-20 101R 3/3		· .	Sc	ind loam	
	· · · · · · · · · · · · · · · · · · ·				
	······································	<u> </u>			
	······			······	<u> </u>
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	<u> </u>		ديد « <u>ج</u> ــــــــــــــــــــــــــــــــــــ		
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and a second	·····	· · · · · · · · · · · · · · · · · · ·	<u></u>	n an Arthur an Arthur An Anna An Anna An An Anna An	
				a e e tat	a da anti-anti-anti-anti-anti-anti-anti-anti-
Type: C=Concentration, D=Depletion, RM=Re	duced Matrix. ² Loc	ation: PL=Pore	Lining, RC=	Root Channel.	M=Matrix.
Hydric Soli Indicators: (Applicable to all LR					Problematic Hydric Solls ^a :
Histosol (A1)	Sandy Redox (S			1 cm Mucl	((A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix ((S6)			((A10) (LRR B)
Black Histic (A3)	Loamy Mucky M				/ertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed N				it Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix	· ·		Other (Exp	blain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Sur				
Depleted Below Dark Surface (A11)	Depleted Dark S				
Thick Dark Surface (A12)	Redox Depressi			3. dialation and	
Sandy Mucky Mineral (S1)	Vernal Pools (F9	n Tana ang kabupatèn ka			ydrophylic vegetation and Irology must be present.
Sandy Gleyed Matrix (S4) Restrictive Layer (If present):	<u></u>	<u></u>	<u> </u>	weddin Hyd	aology must be present.
		and a star		and the second second	
Туре:	🛏 ja sa katala sa kata	and a set of the			sent? Yes No
Depth (inches):	<u>81 - 1</u> 2 - 12 - 12 - 12 - 12 - 12 - 12 -			iyanc son Pre	Sent 185 NO7
		i i i i Secondaria			
YDROLOGY		 			
YÐROLOGY Welland Hydrology Indicators:			۵٫۵۰۰۵ ۱۹۹۹ کار ایسی ۱۹۹۹ کار ۱۹۹۹ کار ۱۹۹۹ کار ۱۹۹۹ کار ۱۹۹۹ کار ۱۹۹۹ کار		y Indicators (2 or more required)
YDROLOGY Welland Hydrology Indicators: Primery Indicators (any one Indicator is sufficien	and all the	44, 5 (1997)		Wate	r Marks (B1) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primery Indicators (any one Indicator is sufficient Surface Water (A1)	Salt Crust (B11			Wate Sedir	r Marks (B1) (Ríveríne) neht Deposits (B2) (Ríveríne)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficien Surface Water (A1) High Water Table (A2)	Salt Crust (B11 Biotic Crust (B1	12)		Wate Sedir Drift I	r Marks (B1) (Riverine) neit Deposits (B2) (Riverine) Deposits (B3) (Riverine)
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YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11 Biolic Crust (B Aqualic Inverte Hydrogen Sulfi Oxidized Rhizo	12) brates (B13) de Odor (C1) spheres along Lh		Wate Sedir Drift I Drain Dry-S C3) Thin	r Marks (B1) (Riverine) neht Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Jeason Water Table (C2) Muck Surface (C7)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrifverina)	Salt Crust (B11 Biolic Crust (B Aqualic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re	12) brates (B13) de Odor (C1) spheres along Lf educed Iron (C4)		Wate Sediri Drift I Drain Dry-S C3) Thin Crayf	r Marks (B1) (Riverine) neht Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Beason Water Table (C2) Muck Surface (C7) ish Burrows (C8)
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YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient	Salt Crust (B11 Biolic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Other (Explain Depth (Inches Depth (Inches	12) brates (B13) de Odor (C1) spheres along Lf educed Iron (C4) duction in Piower in Remarks)):):	d Soils (C6)	Wate Sedir Drift I Drain Dry 5 C3) Thin Crayi Satur Shall FAC-	r Marks (B1) (Riverine) neht Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquilard (D3) Neutral Test (D5)
YDROLOGY Weitand Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient	Salt Crust (B11 Biolic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Other (Explain Depth (Inches Depth (Inches	12) brates (B13) de Odor (C1) spheres along Lf educed Iron (C4) duction in Piower in Remarks)):):	d Soils (C6)	Wate Sedir Drift I Drain Dry 5 C3) Thin Crayi Satur Shall FAC-	r Marks (B1) (Riverine) neht Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquilard (D3) Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverina) 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 Mater Table Present? Yes No Saturation Present? Yes No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Salt Crust (B11 Biolic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Other (Explain Depth (Inches Depth (Inches	12) brates (B13) de Odor (C1) spheres along Lf educed Iron (C4) duction in Piowed in Remarks)): 	d Soils (C6)	Wate Sedir Drift I Drain Dry 5 C3) Thin Crayi Satur Shall FAC-	r Marks (B1) (Riverine) neht Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquilard (D3) Neutral Test (D5)
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YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverina) 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 Water Table Present? Yes No	Salt Crust (B11 Biolic Crust (B Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Other (Explain Depth (Inches Depth (Inches	12) brates (B13) de Odor (C1) spheres along Lf educed Iron (C4) duction in Piowed in Remarks)): 	d Soils (C6)	Wate Sedir Drift I Drain Dry 5 C3) Thin Crayi Satur Shall FAC-	r Marks (B1) (Riverine) neht Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquilard (D3) Neutral Test (D5)
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		- Arid West Region
ject/site: Manterey Peninsula Fixed Guidaust a ilicant/Owner: TAMC	City/County: <u>MON</u> 社	ever / Montevey Sampling Date: 4-26-07
licant/Owner:		State: CA Sampling Point:
estigator(s): <u>JDRJH</u>	Section, Township, Rei	nge:
dform (hillslope, terrace, etc.):	Local relief (concave, a	convex, none): <u>CDNCAVP</u> Stope (%): 5%
region (LRR): Let:		
Map Unit Name: Baywood Sand 2-15% sk	pes	NWI classification:
climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🕺 No	(If no, explain in Remarks.)
Vegetation N. Soil N, or Hydrology N significantly of	disturbed? Are *	Normal Circumstances" present? Yes 🔀 No 🔜
Vegetation Soil, or Hydrology naturally prol	blematic? (If ne	eded, explain any answers in Remarks.)
MMARY OF FINDINGS - Attach site map showing	sampling point l	ocations, transects, important features, etc.
/drophytic Vegetation Present? Yes X No /dric Soil Present? Yes No etiand Hydrology Present? Yes No	is the Sampled within a Wetlar	Агеа
emarks:		
GETATION		
ee <u>Stratum</u> (Use scientific names.) <u>% Cover</u> Salix (asi Diepis <u>80</u> 26	Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
		Total Number of Dominant Species Across All Strata:(B)
Total Cover:		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Scirpus acutus 30%	Y OBL	Prevalence Index worksheet:
a na matana ka sa na		Total % Cover of: Multiply by:
n an		OBL species x 1 = FACW species x 2 =
	·····	FAC species x 3 =
Total Cover:		FACU species x 4 =
rh Streturn		UPL species x 5 =
Potentila anserina <u>2070</u> Melilotus indicus <u>309</u> 2	1_034	Column Totals: (A) (B)
Melilotus indias 3073	<u> </u>	Prevalence Index = B/A =
	$\frac{1}{\sqrt{1-1}} \frac{1}{\sqrt{1-1}} \frac{1}{\sqrt{1-1}} \frac{\sqrt{1-1}}{\sqrt{1-1}} \frac{1}{\sqrt{1-1}} \frac{1}{\sqrt{1-1}$	Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is ≤3.0 ¹
		Morphological Adaptations ¹ (Provide supporting
<u> </u>		date in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	a an	
body Vine Stratum		¹ Indicators of hydric soil and wetland hydrology must
		be present.
Total Cover: Bare Ground in Herb Stratum 6 Cover of Biotic Ci	rust	Hydrophytic Vegetation Present? Yes <u>No</u>
marks:	····· · · · · · · · · · · · · · · · ·	

SO	II.

	Sampling Point:
rofile Description: (Describe to the depth needed to document the indicator or con	nfim the absence of indicators.)
Depth Matrix Redox Features	c ² Texture Remarks
7-10 10 YR 3/2	Sana, loan
202 APA 1 2 402	
<u>2-10 yeeg 1 5/10/</u>	Sandy laam w/gravel
and a second	<u> </u>
ype: C=Concentration, D=Deptetion, RM=Reduced Matrix. ² Location: PL=Pore Link	ng, RC=Root Channel, M=Matrix.
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
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) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	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)	
Sandy Mucky Mineral (S1) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
estrictive Layer (if present):	
Туре:	an an taon an Anna an Anna an Anna Anna Anna An
Depth (inches):	Hydric Soil Present? Yes X No
emarks:	
emarks: The second se	
emarks: The second se Second second	
emarks: The second s The second sec	
emerks: The second sec	
	Secondary Indicators (2 or more required)
	Secondary Indicators (2 or more required)
felland Hydrology Indicators:	
/DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biolic Crust (B12)	Water Marks (B1) (Riverine)
/DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverina) Sediment Deposits (B2) (Riverine)
/DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biolic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) g Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) oils (C6)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) g Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) oils (C6) Shallow Aquitard (D3)
(DROLOGY fetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) g Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) oils (C6) Shallow Aquitard (D3)
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Applicant/Owner: TAMC	TIMU CHURNY CIT	ycounty, <u>t with Of</u>	state: CA Sampling Date: 4-22-
Investigator(s): JDQJH	Se	ection, Township, Rer	
Landform (hillslope, terrace, etc.):			convex, none): <u>CONCANE</u> Stope (%): <u>5</u>
Subregion (LRR): LRRC	Lat:		_ Long: Datum:
Soil Map Unit Name: Baywood	<u>sand 2-15%s</u>	ilipes	NWI classification:
Are climatic / hydrologic conditions on the	and the second		
Are Vegetation N. Soil N, or Hy			Normal Circumstances" present? Yes <u>No</u> No
Are Vegetation N , Soli N , or Hydrogeneration	승규는 전 그는 것이 아름다. 이 가슴	영생 이 집에 있는 것이 없다.	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Atta	ich site map showing s	ampling point id	ocations, transects, important features, e
Hydrophytic Vegetation Present?	Yes X No	is the Sampled	i Δrea
Hydric Soil Present?	Yes NoX	within a Wetlan	
Wetland Hydrology Present? Remarks:	Yes No	a de la construcción de la constru En esta de la construcción de la con	ha an
Does not meet ACLE	definition of a	wetland. F	Riparian vegetation may
be under CA axist	al Commission	urisdict	Riparian Vegetation may
L VEGETATION	•	unit de la companya d	
	Absolute [Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)		Species? Status	Number of Dominant Spacies
1. <u>Salix Jasiolepis</u>	<u>90%</u>	Y FACW	That Are OBL, FACW, or FAC: (A
2			Total Number of Dominant Species Across All Strate: (B
4.			
	Total Cover:		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A
Sapling/Shrub Stratum 1. RUBUS Ursinus	30%	Y FAC	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3	······		OBL species x 1 =
4 , <u></u>			FACW species x 2 =
5. <u></u>		· · · · · · · · · · · · · · · · · · ·	FAC species x 3 = FACU species x 4 =
Herb Stratum	Total Cover:	a da servera de la compañía de la co Como de la compañía de	PACU species x+- UPL species x 5=
1. None		and the second sec	Column Totals; (A)
2.	·····		
3.			Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
4. 5.			Dominance Test is >50%
6.		······	Prevalence Index is ≤3.0 ¹
	······································		Morphological Adaptations ¹ (Provide supporting
7			data in Remarks or on a separate sheet)
7			Problematic Hydrophytic Vegetation ¹ (Explain)
7 .	Total Cover:	and the second second	(1) A South State of the second state of th
7	Total Cover:	and and a second se	¹ Indicators of hydric soll and wetland hydrology mus
7 .	Total Cover:		¹ Indicators of hydric soll and wetland hydrology mus be present.
7 .	Total Cover:		be present. Hydrophytic
7	 Ταταί Cover:		be present. Hydrophytic Venetellen
7 .	 Ταταί Cover:		be present. Hydrophytic Vegstation

Depth	iption: (Describe) Motoir	ro nie debra lies	and the second	Features		n (ne absence of ir	Idicalors.)	
(inches)	Matrix Color (moist)	<u>%</u> Co	ior (moist)	% Type		Texture	Remark	S
10-20	104R 312			1999 - 1999 -		Sandysilt		
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	ncentration, D=Depl ndicators: (Applica				ore Lining, N		Problematic Hydr	ic Solls ³ :
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· •••••••	pedon (A2)		_ Stripped Matr	· · ·			(A10) (LRR B)	
Black His			Loamy Mucky	· · · · ·	and the second	Reduced V		
Hydrogen	Sulfide (A4)		Loamy Gleve			Red Parent	Material (TF2)	
Stratified	Layers (A5) (LRR C	c)	_ Depleted Mat	rix (F3)		Other (Exp	ain in Remarks)	
	k (A9) (LRR D)		_ Redox Dark S				· ·	
	Below Dark Surface	e (A11)		k Surface (F7)		et algebra de la composición de la comp	ta an	
	k Surface (A12)		_ Redox Depres			Bir dia dama darah		
	icky Mineral (S1) eyed Matrix (S4)	de la constante da c	_ Vernal Pools	(F9)	n an an triann. Th' the second second		drophytic vegetati ology must be pre	
	ayer (if present):	<u>a an an</u>	<u> </u>		<u>National Constants</u> National Constants	#edana nya	orogy must be pre	30111
				a service de la companya				
Depth (incl	 Description of the second secon		Radia di Santa S	de en	en en en en en en	Hydele Soil Pres	sent? Yes	<u>No X</u>
Remarks:	·····		n ya shi ta di Manfan na kuma na sana sa				·····	
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HYDROLOG						up braid 1 <u>addie autor an ormali</u>		
HYDROLOG Wetland Hyd	SY rology Indicators:					Secondary	Indicators (2 or m	core required)
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Wetland Hyd Primary Indice	rology Indicators:		Salt Crust (E	311)		Water	Marks (B1) (River	rine)
Wetland Hyd Primary Indice Surface V	rology Indicators: itors (any one indice		Salt Crust (E Biolic Crust	-		Water Sedim	Marks (B1) (River ent Deposits (B2)	rine) (Riverine)
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Applicant/Owner: TAMC Investigator(s): JD & JH	s	میں اور	Crey Monterey Sampling Date: (0.22-09
			convex, none): CONCAVE Slope (%):
			_ Long: Datum:
Soll Map Unit Name: Pay WOOd Sav			
Are climatic / hydrologic conditions on the site b	· · · · · · · · · · · · · · · · · · ·		the second s
			*Normal Circumstances" present? Yes X No
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrolo			
自己 美国的名词复数 网络教师学校 医结肠管 有限的			locations, transects, important features, etc
	site map showing s		locatoris, transects, important reatties, eu
	<u> </u>	is the Sampled	그는 것이 같아요. 이렇게 하는 것이 같아요. 이렇게 가지 않는 것이 많아요. 말했다.
Hydric Soil Present? Yes		within a Wetla	nd7 Yes <u>X</u> No
Wetland Hydrology Present? Yes Remarks:	<u>No</u>	ing the second second	n and a second secon
@ tow of Slope		학원 관계 관계 (1999) 1993년 - 1993년 (1999) 1993년 - 1993년 (1999)	· 사망하는 말한 가운 가는 것이 있는 것이 있다. 것이 있는 것이 있 것이 있는 것이 있 같은 것이 있는 것
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VEGETATION	a star san an ann an an		사업 사업 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
Tree Stratum (Use scientific names.)	Sector Se	Dominant Indicator	Dominance Test worksheet:
1. NONC	<u>-76 COVEL</u> .	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2			the second s
3			Total Number of Dominant 2 Species Across All Strata: (B)
4.			
	Total Cover:		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum 1. KAVAVS WYSINUS	50%	Y FAC	Prevalence Index worksheet:
2	<u>0070</u>	<u> </u>	Total % Cover of: Multiply by:
3. The second sec	<u></u>		OBL species x 1 =
4.			FACW species x 2 =
5 . <u></u>	r an	na se	FAC species x 3 =
	Total Cover:		FACU species x 4 =
1. SUVDUS QUINS	50%	YOBL	UPL species x 5 =
2.		<u> </u>	Column Totais: (A) (B)
3			Prevalence index = B/A =
4			Hydrophytic Vegetation Indicators:
5.			Dominance Test is >50%
6		······	Prevalence index is $\leq 3.0^4$
7.		· · · · ·	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8, <u></u>		<u></u>	Problematic Hydrophytic Vegetation ' (Explain)
Woody Vine Stratum	Total Cover:	n de la companya de 199 Companya de la companya	
1			Indicators of hydric soil and wetland hydrology must
2			be present.
	Total Cover:		Hydrophytic
% Bare Ground in Herb Stratum	% Cover of Biolic Cru	st	Vegetation Present? Yes X No
Remarks:			

OIL Profile Description: (Describe to the	depth needed to document the indicator or con	firm the absence of indice	Sampling Point:
1.1			
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type' Loc	Texture	Rémarks
0-20 gley 1 3/104		Sandy loam w/	gravel ECOLLIP
			<u></u>
·		·····	<u> </u>
		<u>. N</u> e <u>sainta anna a</u>	
	and the second		
and the second			
			
		····	
Type: C=Concentration, D=Depletion, I	RM=Reduced Matrix. ² Location: PL=Pore Linin	g, RC=Rool Channel, M=M	atrix.
Hydric Soll Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Prob	iematic Hydric Solis ⁹ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9)	
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10	
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic	
Hydrogen Sulfide (A4)	X Loamy Gleyed Matrix (F2)	Red Parent Mat	
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)	Depleted Matrix (F3) Redox Dark Surface (F6)	Other (Explain i	Remarks)
Depleted Below Dark Surface (A11)			
Thick Dark Surface (A12)	Redox Depressions (F8)		an a
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrop	hytic vegetation and
Sandy Gleyed Matrix (S4)	an an Tarta an Araba an Araba an Araba. An Araba		y must be present.
Restrictive Layer (if present):			
Туре:	and the second	and the second	
Depth (inches):	$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right)$	Hydric Soil Present	Yes <u> No</u> No
		Hydric Soil Present	Yes <u>No</u> No
Remarks:		Hydric Solf Present	Yes No
		Hydric Soll Present	Yes <u>No</u> <u>No</u>
Remarks:		Hydric Soll Present	Yes <u>No</u>
		Hydric Solf Present	Yes <u>No</u>
Remarks: Fill IYDROLOGY Weiland Hydrology Indicators:		Secondary Ind	cators (2 or more required)
Remarks: Fill IYDROLOGY Weiland Hydrology Indicators:	<pre>sufficient)</pre>	Secondary Ind	
Remarks: Fill Welland Hydrology Indicators: Primary Indicators (any one indicator is - 	sufficient) Salt Crust (B11)	L <u>Secondary Indi</u> Water Mar	cators (2 or more required)
Remarks: Fill Wetland Hydrology Indicators: Primary Indicators (any one indicator is - Surface Water (A1) X High Water Table (A2)	Salt Crust (B11) Blotic Crust (B12)	<u>Secondary Indi</u> Water Mar Sediment Drift Depo	<u>calors (2 or more required)</u> (s (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine)
Remarks: Fill Wetland Hydrology Indicators: Primary Indicators (any one indicator is - Surface Water (A1) X High Water Table (A2)	Salt Crust (B11)	<u>Secondary Indi</u> Water Mar Sediment Drift Depo	<u>cators (2 or more required)</u> ks (B1) (Ríverine) Deposits (B2) (Ríverine)
Remarks: Fill Welland Hydrology Indicators: Primary Indicators (any one indicator is - Surface Water (A1) X High Water Table (A2)	Salt Crust (B11) Blotic Crust (B12)	Secondary Indi Water Mar Sediment Drift Depo Drahage F	<u>calors (2 or more required)</u> (s (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine)
Remarks: FIN Wetland Hydrology Indicators: Primary Indicators (any one indicator is : Surface Water (A1) High Water Table (A2) X Saturation (A3)	Sail Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indi Water Mar Sediment Drift Depo Drainage f Dry-Seaso	cators (2 or more required) (s (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Pattems (B10) n Water Table (C2)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine)	Sail Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indi Water Mar Sediment Drift Depo Drahage f Dry-Seasc Roots (C3) Thin Muck	cators (2 or more required) (s (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Pattems (B10) n Water Table (C2)
Remarks: FIN Weiland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Sail Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Secondary Indi Sediment Sediment Drift Depo Drahage f Dry-Sease Roots (C3) Thin Muck Crayfish B	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Pattems (B10) n Water Table (C2) Surface (C7)
Remarks: YDROLOGY Weiland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Sail Crust (B11) Biolic Crust (B12) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indi Sediment Sediment Drift Depo Drahage f Dry-Sease Roots (C3) Thin Muck Crayfish B Is (C6) Saturation	cators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) vattems (B10) n Water Table (C2) Surface (C7) urrows (C8)
Remarks: YDROLOGY Welland Hydrology Indicators: Primary Indicators (any one Indicator is Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Sail Crust (B11) Biolic Crust (B12) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indi Sediment Sediment Drift Depo Drainage f Dry-Sease Roots (C3) Thin Muck Crayfish B Is (C6) Saturation Shallow Adv	cators (2 or more required) (s (B1) (Riverine) Deposits (B2) (Riverine) its (B3) (Riverine) its (B3) (Riverine) vattems (B10) n Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (C9)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is : Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stahed Leaves (B9)	Sail Crust (B11) Biolic Crust (B12) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indi Sediment Sediment Drift Depo Drainage f Dry-Sease Roots (C3) Thin Muck Crayfish B Is (C6) Saturation Shallow Adv	cators (2 or more required) (cs (B1) (Riverine) Deposits (B2) (Riverine) (cs (B3) (Riverine) (cs (B3) (Riverine) (cs (B3) (Riverine) (cs (B3) (Riverine) (cs (C3) (cs (C3)) (cs (C3)) (cs (C3)) (cs (C3)) (cs (C3)) (cs (C3))
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Applicant/Owner: <u>IAML</u> Investigator(s): JD & JH		tion. Township. Re		ampling Point:
			convex, none): COMCA	C Slope (%):
			Long;	
Soil Map Unit Name:	2-15/25/	3265	NWI classificati	on:
Are climatic / hydrologic conditions on the site typical for		·		
Are Vegetation, Soil, or Hydrology	-		"Normal Circumstances" pre	
Are Vegetation $\underline{N}_{}$, soll $\underline{N}_{}$, or Hydrology $\underline{N}_{}$			eeded, explain any answers	
SUMMARY OF FINDINGS - Attach site ma	p showing sa	mpling point l	ocations, transects, i	mportant features,
Hydrophytic Vegetation Present? Yes	NoX	all Marga e e a		
Hydric Soil Present? Yes		is the Sampled	nd? Yes	estrugende. No Yourretest
Wetland Hydrology Present? Yes		A STARY COMM		and the second
Remarks: Vegetation Maintained-al	nua vail	Voad AVI	cks next to	Papente
vegeration maintained for	Nig rout	I VAM JIM	UPO TILL D	Lake
		e og konse og som skalte og Brugerer og som skalte og	este de la companya d	
VEGETATION	<u>.</u>		· . · ·	e de servers
	Absolute Do	minant Indicator	Dominance Test worksh	eet:
Tree Stratum (Use scientific names.)		oncies7 Status	Number of Dominant Spe	
1. None		······	That Are OBL, FACW, or	FAC: (/
2			Total Number of Dominan	1 21
3		·····	Species Across All Strata:	(
4,			Percent of Dominant Spec	ties ng
Sapling/Shrub Stratum	ver:		That Are OBL, FACW, or	FAC: 073
1. None			Prevalence Index works	neet:
2			Total % Cover of:	Multiply by:
3.			OBL species	x 1 =
4	<u></u>	·····	FACW species	× 2 =
5			FAC species	X3=
Herb Stratum		$T_{\rm eff} = 2 \pi m_{\rm eff}$	FACU species	X4= X5=
1. Brassica nigra	5%	Y NL	Column Totals:	the second s
2. Vulpia sp	20%	/ NL		
3. Brownus Mordaceus	5%3	V UPL	Prevalence index =	B/A =
4. Malva parviflora	5%	Y_NL	Hydrophytic Vegetation	그는 것 같아요. 지수는 것 같아요. 신문에 가지?
5			Dominance Test is >5	
б			Prevalence Index is s	
7		······	Morphological Adapta	tions ' (Provide supportin r on a separate sheet)
8			Problematic Hydrophy	
Totel Co Woody Vine Stratum	ver:	· · .	· · · · · · · · · · · · · · · · ·	
1		a në sana	¹ Indicators of hydric soil a	nd welland hydrology mu
2. <u></u>	in nor us contints	••••••••••••••••••••••••••••••••••••••	be present.	
	/er:		Hydrophytic	
	ver of Biotic Crust		Vagetation	No_X
% Co			1103011.1 185	nv <u>_/ </u>
Remarks:				

	atrix	needed to document the indic Redox Features			
inches) Color (mo	<u>st) %</u>		vpe Loc ²	Texture	Remarks
5-20 104R 31	2			Sandy Silt	-
				<u> </u>	
······		·····	······································	······	
			<u></u>		
<u></u>					
					a a second a
			·		
		· · · · ·			
Type: C=Concentration, D	D=Depletion, RM=R	educed Matrix. ² Location: Pl	=Pore Lining, R	C=Root Channel	, M≃Matrix.
		Rs, unless otherwise noted.)		Indicators for	r Problematic Hydric Solls ³ :
Histosol (A1)		Sandy Redox (S5)	5. S. S.	1 cm Muc	* (A9) (LRR C)
Histic Epipedon (A2)		Stripped Matrix (S6)			k (A10) (LRR B)
Black Histic (A3)		Loamy Mucky Mineral (F1		and the second sec	Verlic (F18) Int Material (TF2)
Hydrogen Sulfide (A4) Stratified Layers (A5) (and the second	Loamy Gleyed Matrix (F2 Depleted Matrix (F3)) ·		(plain in Remarks)
1 cm Muck (A9) (LRR		Redox Dark Surface (F6)			
Depleted Below Dark S	<i>'</i>	Depleted Dark Surface (F			
Thick Dark Surface (A	12)	Redox Depressions (F8)			
Sandy Mucky Mineral (Vernal Pools (F9)	. 1		hydrophytic vegetation and
Sandy Gleyed Matrix (<u> </u>		wetland hy	drology must be present.
estrictive Layer (if prese	ent):				
Туре:	<u></u>				esent? Yes No \mathcal{X}
Depth (inches):				HVORIC SOIL PT	esenti tes no 🖉 👘
Depth (inches): Remarks: AII WITH rock		<u></u>		Hydric Soli Pr	esent? Yes No
Remarks: All With rock					esent/ tesNo
remarks: Fill With rock YDROLOGY					ry Indicators (2 or more required)
Remarks: AII WITH rock YDROLOGY Vetland Hydrology Indic	ators:	ent)		Seconda	
Temarks: AII WITH WCK YDROLOGY Vetland Hydrology Indic	ators:	ent)		Seconda	ry Indicators (2 or more required)
Remarks: AII WITH with YDROLOGY Vetland Hydrology Indica Yrlmary Indicators (any one	ators: e indicator is sufficie	· · · ·		Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine)
Remarks: AII WITH with YDROLOGY Vetland Hydrology Indica ² rimary Indicators (any one Surface Water (A1)	ators: e indicator is sufficie	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B		Seconda Wate Sedi Drift	rry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)
Remarks: AII WITH wock YDROLOGY Vetland Hydrology Indica 2rimary Indicators (any one Surface Water (A1) High Water Table (A2)	ators: e Indicator Is suffici	Salt Crust (B11) Blotic Crust (B12)		Seconda Wate Sedi Drift Draft	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Temarks: A II WITH work YDROLOGY Vetland Hydrology Indica Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2)	ators: e <u>indicator is suffici</u> nriverine) 2) (Nonriverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres	(C1) along Living Roo	Seconda Wate Sedi Drift Drafi Dry- ts (C3) Thin	iry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Pattems (B10) Season Water Table (C2) i Muck Surface (C7)
Temarks: FIN WITH work YDROLOGY Vetland Hydrology Indic: Primary Indicators (any one 	ators: e indicator is suffici nriverine) 2) (Nonriverine) prriverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In	(C1) along Living Roo on (C4)	Seconda 	iry Indicators (2 or more required) er Marks (B1) (Riverfine) iment Deposits (B2) (Riverfine) Deposits (B3) (Riverfine) nage Pattems (B10) Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8)
Vernarks: A II WITH work YDROLOGY Vetland Hydrology Indica Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noi Sediment Deposits (B3) Drift Deposits (B3) (Noi Surface Soil Cracks (B	ators: e indicator is sufficient nriverine) 2) (Nonriverine) nriverine) 36)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in	(C1) along Living Roc on (C4) n Plowed Soils ((<u>Seconda</u> 	rry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Pattems (B10) Season Water Table (C2) I Muck Sürface (C7) yfish Burrows (C8) Iration Visible on Aerial Imagery (C9
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Vernarks: FINNTH with YDROLOGY Vetland Hydrology Indica Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B Inundation Visible on / Water-Stained Leaves	ators: e indicator is suffici nriverine) 2) (Nonriverine) prriverine) 36) Aerial imagery (B7)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in	(C1) along Living Roc on (C4) n Plowed Soils ((Seconda	rry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Pattems (B10) Season Water Table (C2) I Muck Sürface (C7) yfish Burrows (C8) Iration Visible on Aerial Imagery (C9
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Arid West - Version 11-1-2006

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roject/site: Manter of Peningula Fixed Guidant	City/Coun	<u>Munte</u>	ref Monterey Sampling Date: U 22-09
pplicant/Owner: TAMC		n na series La series La series	State: Sampling Point:4
vestigator(s): JD2, SH-	Section, T	ownship, Rei	nge:
ndform (hilistope, terrace, etc.):	Local reli	ef (concave, i	convex, none): <u>CONCAVE</u> Slope (%): <u>207</u>
ibregion (LRR):LPL		· · · · · · · · · · · · · · · · · · ·	_ Long; Dalum:
NI Map Unit Name: Buy ward Sand 2-15	90 Slup	es .	NWI classification:
e climatic / hydrologic conditions on the site typical for this time of	•		
e Vegetation N, Soil N, or Hydrology N, significar			Normal Circumstances" present? Yes 📈 No
e Vegetation, Soil, or Hydrology naturally	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		eded, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site map show			
OMMART OF FINDINGS - Attach site map show		ng hour n	
-lydrophytic Vegetation Present? Yes X No No		the Sampled	Area
Hydric Soil Present? Yes X No		hin a Wetlar	nd? Yes 🗶 No
Netland Hydrology Present? Yes X No Remarks:	<u> </u>	e e dita e	a de la companya de La companya de la comp
		가 가 있는 것이다. 이 것, 그 가 가 가	8년 (44년) 일시 전자 1997년 - 1997년 1997년 - 1997년 -
	en e		
		· · · ·	
EGETATION	an an Alana Alana an Alana		
ree Stratum (Use scientific names.) % Con	ute Dominar ver Species	nt Indicator	Dominance Test worksheet:
Salt / lasiolepis	a	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:
	دي ايريني <u>وتيم</u> ا		
	•••••••	••••••••••••••••••••••••••••••••••••••	Total Number of Dominant Q (B)
Total Cover:			Percent of Dominant Species 100% (A/B)
Rubus Wisinus 20	190 V	FAC	Prevalence Index worksheet:
- MIDID WIDTIMD -	<u> </u>		Total % Cover of: Multiply by:
•			OBL species x 1 =
8 <u>Anna 1997</u> A. C. Martinez, and S. Sandar, and S. Sandar, and S. Sandar, "A strain st Strain strain stra	<u></u>		FACW species x 2 =
		· · · · · · · · · · · · · · · · · · ·	FAC species x 3 =
Total Cover:		n an an an an a' an an an a' an	FACU species x 4 =
<u>lerb Streium</u>	en. De gestafterige	and and a	UPL species x 5 =
Nine			Column Totals: (A) (B)
. <u> </u>			Prevalence Index = B/A =
- A second second second second second second second second second second second second second second second second second second second se	an a	- <u>-</u>	Hydrophytic Vegetation indicators:
			Dominance Test is >50%
n <u>an ann an A</u>	<u></u>		Prevalence index is ≤3.0 ¹
	anda a sa inga ang inggan	ter a	Morphological Adaptations ¹ (Provide supporting
, <u> </u>		<u></u>	date in Remarks or on a separate sheet)
Total Cover:		والمحادث	Problematic Hydrophytic Vegetation ' (Explain)
Vcody Vine Stratum	in the second	e tet te de	¹ Indicators of hydric soil and wetland hydrology must
la <u>na seconda de la constanta de</u> La constanta de la constanta de			be present.
ZTotal Cover:	·····	- <u> </u>	Hydrophytic
	<u> </u>		Vegetation
% Bare Ground in Herb Stratum % Cover of Bioti			Present? Yes <u>No</u> No
Remarks:			
			의 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전

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US Army Corps of Engineers

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tome pescription: (pescribe to the depi	In needed to document the indicator or co	ntirm the absence of ind	cators.)
Depth <u>Matrix</u> inches) <u>Color (moist) %</u>	Redox Features Color (moist) <u>%</u> Type' Loo	2 Texture	Remarks
104421		(oam sand	
<u>5700 101P 211</u>			<u>Artes Artes - Artes - Artes - Artes</u> 1971 - Artes Artes - Artes
		<u> </u>	
		1997 - A.	
		Leader and the	
	Reduced Matrix. ² Location: PL=Pore Linit		
ydric Soli Indicators: (Applicable to all	LRRs, unless otherwise noted.)		oblematic Hydric Solis ^a :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (#	
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A	
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Ver	
Hydrogen Sulfide (A4)	Learny Gleyed Matrix (F2)	Red Parent M	
Stratified Layers (A5) (LRR C)	▲ Depleted Malrix (F3) — Redox Dark Surface (F6)	Uner (Explai	n in Remarks)
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11)	Redox Dark Sunace (F6) Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)		ار آراکنده برد ساند. ماه درجان از آراکن ورد
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydr	ophytic vegetation and
Sandy Gleyed Matrix (S4)		wetland hydrol	ogy must be present.
testrictive Layer (If present):			
Туре:		13 e 1	1월 4일 11일 <u>11일 11일</u> 12일 12일 12일 12일 12일 12일 12일 12일 12일 12일 12일 12일 12일 12일 12일
Depth (inches):		Hydric Soil Prese	nt? Yes <u>×</u> No
			<u> </u>
Remarks:		l Lygn a	
	n an		
YDROLOGY	n an		
YDROLOGY Vetland Hydrology Indicators:	n an	<u>Secondary I</u>	udicators (2 or more required)
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YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is suffi Surface Water (A1)	c/ent) Salt Crust (B11)	<u>Secondary Ir</u> Water N Sedimen	arks (B1) (Riverine) It Deposits (B2) (Riverine)
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Applicant/Owner: TAMC	an an an taona	<u> </u>	State: <u>(</u>	mpling Point: <u>479</u>
Investigator(s): JD2UH		lion, Township, Rar	• •	<u> </u>
Landform (hillslope, terrace, etc.):			onvex, none): <u>CONCA V</u>	
				Detum:
Soil Map Unit Name: Baywood Sand			NWI classificatio	
Are climatic / hydrologic conditions on the site typics				ent? Yes <u>X</u> No
Are Vegetation, Soit or Hydrology	• • • • • • • • • • • • • • • • • • •		eded, explain any answers i	
SUMMARY OF FINDINGS - Attach site		•		
SUMMARY OF FINDINGS - Attach site	<u> </u>	Inbinið hourrie	cations, transects, in	inportant reataics, co
Hydrophytic Vegetation Present? Yes		Is the Sampled	Агеа	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	<u>No X</u>	within a Wetlan		No <u>X</u>
Remarks:		. I	<u> </u>	an a
$= - \frac{1}{2} \sum_{i=1}^{n} $		an bei geracht. A' ear cleachd a' cleach	hanna an tha an tao an tao An tao an tao	
VEGETATION		a an		
		minant Indicator Secies? Status	Dominance Test worksh	이 사람을 위한 것을 만든 것 같아. 것
<u>Tree Stratum</u> (Use scientific names.) 1	<u>N COVEL SE</u>	scelest <u>oranis</u>	Number of Dominant Spec That Are OBL, FACW, or I	
2			Total Number of Dominan	
3. <u>A secondaria de la seconda de</u>			Species Across All Strata:	
4	al Cover:		Percent of Dominant Spec	
Sapling/Shrub Stratum	1 Covel.		That Are OBL, FACW, or I	
1		···	Prevalence Index works	neet: Multiply by:
2			Total % Cover of: OBL species	
4			FACW species	x 2 =
5			FAC species	x 3 =
Tot	al Cover:		FACU species	
1. DYDSSICA NI YVU	170	N. NL	Column Totals:	(A) (B)
2. rubus ursinus		N FAC	n de la construcción de la constru La construcción de la construcción d	
3.			Prevalence index = Hydrophytic Vegetation	
4			Dominance Test is >5	
6			Prevalence Index is ≤	경험을 위해 있는 것은 것은 것을 가지 않는 것이 없다.
7	مرابق المرابع (المرابع). 		Morphological Adapta data in Remarks o	tions ¹ (Provide supporting r on a separate sheet)
8		<u></u>	and the second se	tic Vegetation ¹ (Explain)
Tot Woody Vine Stratum	al Cover:	and a state of the second s	 Constraints Constraints 	
1			¹ Indicators of hydric soil a be present.	nd wetland hydrology must
2,		······	Hydrophytic	
a 29. To	al Cover:		Vegetation	No <u>X</u>
	% Cover of Biolic Crust	·	Present? Yes	0'n
Remarks:				
Unvegetated -				
	<u></u>			<u>الم المراجع الم الم الم الم الم الم الم الم الم الم</u>
US Army Corps of Engineers				Arid West - Version 11-1-20

Depth	ription: (Describe t Matrix	io me achin ne.				i tila anseime i	11 ([[U]V@(U[3,]	
(inches)	Color (moist)			<u>6 Type</u> ¹	Loc ²		Rema	rks
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		·	The second second	· · · · · ·		<u> </u>	<u> </u>	an a fan he an
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¹ Type: C=C	incentration, D=Dept	etion RM=Redu	iced Matrix. ² Loci	ation: PL=Por	e Lining, R	C=Root Chann	el, M=Matrix.	a na Natitata
Hydric Soll	indicators: (Applica	able to all LRRs	, unless otherwise				or Problematic Hy	dric Solis ³ :
Histosol			Sandy Redox (S:			1 cm M	uck (A9) (LRR C)	
	Nipedon (A2)		Stripped Matrix (1.1.19		uck (A10) (LRR B)	가지. 1995년 - 신라 1999년
	stic (A3)		_ Loamy Mucky Mi		<u>.</u>		d Vertic (F18)	
1 mm	n Sulfide (A4)		Loamy Gleyed M	(1) A.	· · · · · · · · · ·		rent Material (TF2)	
· · · · · ·	i Layers (A5) (LRR C	·· ·	Depieted Matrix (tertinet.	Explain in Remarks)	
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	ck (A9) (LRR D)	-						
	Below Dark Surface	(A11) _	Depicted Dark Su		· · ·	· · ·	بالتواب المحارب المحار	
	rk Surface (A12)		Redox Depressio				ค.ศ. 2012 - ไม่ได้เรื่อง 2012 - ไม่ส่ง	
	lucky Mineral (S1)	ala da angla 🗝	Vernal Pools (F9)	≯ – sona sona Serenda en antigen	ana an Ngang taong tao		I hydrophylic vegel	
	leyed Matrix (S4)	e e contra de la c		the second second	est d	wettano	iydrology must be p	resent.
	.ayer (if present):							
Type:		<u></u>			1	 A second sec second second sec		
Depth (in	:hes):	and a standard set	en en el composition de la composition La composition de la c	· · · · · · · · · · · ·	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Hydric Soll I	resent? Yes	No 🛛
	лоц GY				en en	an shi an an an san Shi tagal	, sporter en en en en en en en 1939 en en e	
HYDROLO	ey				en e		lary Indicators (2 or	more required)
HYDROLO Wetland Hy	GY frology Indicators:	ator is sufficient)		· · · · · · · · · · · · · · · · · · ·		Second		
HYDROLO Wetland Hy Primary India	GY frology Indicators: ators (any one indica	ator is sufficient)		· · · · · · · · · · · · · · · · · · ·		<u>Secon</u>	aler Marks (B1) (RIv	erine)
HYDROLO Wetland Hy Primary India	GY frology Indicators: ators (any one indica Water (A1).	ator (s sufficient)	Salt Crust (B11)			Second Wi	ater Marks (B1) (RI v diment Deposits (B:	erine) 2) (Riverine)
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Applicant/Owner:AMC	Line I		•	State: Sampling Point: SD
nvestigator(s): JD40H			•	nge:
andform (hillslope, terrace, etc.):		Local relie		
Subregion (LRR):	Lat:			_ Long: Dalum:
Soli Map Unit Name: Boy Wood Sand		1		NWI classification:
Are climatic / hydrologic conditions on the site typical fo				(If no, explain in Remarks.)
Are Vegetation Soil, or Hydrology	significantly	disturbed?	Are "	Normal Circumstances" present? Yes 🔀 No
Are Vegetation $N_{}$, Soil $N_{}$, or Hydrology $N_{}$	naturally pro	blematic?	(If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap showing	samplir	ng point id	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>X</u>	No	In the	he Sampled	and the second sec
Hydric Soil Present? Yes X	No	· · ·	nin a Wetlan	
Wetland Hydrology Present? Yas X	No		.,,, ,, 1160.00	
Remarks:		1.10	1 ¹	en e
at end to the			ante de la grade. No composito	and a second
		<u></u>		a se se as a se a ser a se a se a se a s
/EGETATION		4		
an a	Absolute		t Indicator Status	Dominance Test worksheet:
Tree Stratum (Use scientific names.) 1. Nove	% Cover	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC:
2			· ····	
3				Total Number of Dominant Species Across All Strata:(B)
4.				Percent of Dominant Species 57) 8
	over:	-		That Are OBL, FACW, of FAC: 5018 (A/B)
<u>Sapling/Shrub Stratum</u> 1. NONe				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5	·······	· ·····		FAC species x 3 =
Harb Stratum Stratic Association Total C	over:	•		FACU species x 4 =
1 Malilatus indicus	6090	Y	FAC	UPL species x 5 = Column Totals: (A)
2. Dolypugon monspeliensis	5/0	Y	FACW	
3. Atriolex triangularis	26%	<u> </u>	NL	Prevalence index = B/A =
4 Sarpus acutus	595	<u> </u>	OBL	Hydrophytic Vegetation Indicators:
5.	<u></u>			Dominance Test is >50% Prevalence Index is ≤3.01
6		. <u></u>		Prevalence index is \$3.0 Morphological Adaptations ¹ (Provide supporting
7		· · · · · · · · · · · · · · · · · · ·		data in Remarks or on a separate sheet)
ö,	over:			Problematic Hydrophylic Vegetation ¹ (Explain)
Woody Vine Stratum		-	5.	
1		•••••••••••		¹ Indicators of hydric soll and wetland hydrology must be present.
	а 		· · · · · · · · · · · · · · · · · · ·	<u> 1997 - Maria Managara, ang kanang kanang</u>
	over:	-		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % C				Present? Yes X No
Remarks: Viewation disturbed by regular maintenance		000	Spinre	drology - In wetter portions
		318 8	Mr. W. W. Luc	

US Army Corps of Engineers

Arid West - Version 11-1-2006

Color (moist) % Color (moist) % Topel Loc Texture Remarks -20 IU//R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I -20 IU/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I -20 IU/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I -20 IU/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I -20 Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I -20 Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/I -20 Iu/R 2/I Iu/R 2/I Iu/R 2/I Iu/R 2/II Iu/R 2/II -20 Red Parent Method IU/R 2/II Standy Ricky Mineral (5) Iu/R 2/III Iu/R 2/III Iu/R 2/III Iu/R 2/IIII Iu/R 2/IIII Iu/R 2/IIIII Iu/R 2/IIIIIIII Iu/R 2/IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Depth (inches)) 0-20	i sa	h needed to document the indic		the absence of indic	cators.)
P20 [U3ft/2 2/1] Joan y Son 4 ype: C=Concentration, D=Deptetion, RM=Reduced Matrix, *Location: PL=Pore Lining, RC=Rood Channel, M=Matrix, indicators for Photomatic Hydric Solis*: Indicators for Photomatic Hydric Solis*: ype: C=Concentration, D=Deptetion, RM=Reduced Matrix, *Location: PL=Pore Lining, RC=Rood Channel, M=Matrix, indicators for Photomatic Hydric Solis*: Indicators for Photomatic Hydric Solis*: Histocal (A1)					Tavi	
yps: C=Consentration D=Depletion RM=Reduced Matrix *Location: PL=Pore Lining, RC=Rod Chennel, M=Matrix, vdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Hitios (A)	0-20					GAIDHIGA
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ² : Histos Dipoleon (A2) Stripped Matrix (S6)		1071221			Joan y San 1	<u></u>
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Histosol (A1)	Type: C=C	centration, D=Depletion, RM=h		=Pore Lining, R		
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Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Suitide (A4) Loamy Gleyed Matrix (F2) Red Pareni Material (TF2) Stratified Layers (A5) (LRR C) X Depleted Matrix (F3) Cither (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F5) Cither (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Indicators of hydrophylic vegetation and wetland hydrology must be present. Strictified user Layer (If present): Type:				1.		
Hydrogen Suitide (A4) Loamy Gleved Matrix (F2) Red Perent Material (TF2) Stratified Layers (A5) (LRR C) > Depleted Matrix (F3) Other (Explain in Reimarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Reimarks) Depleted Below Dark Surface (A12) Redox Depressions (F8) ************************************		Stanling State March 1997 - State				
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1 cm Muck (A9) (LRR D)	Stratifie	Layers (A5) (LRR C)	👱 Depleted Matrix (F3)		Other (Explain	in Remarks)
_ Depleted Bolow Dark Surface (A11)			Redox Dark Surface (F6)			
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Sandy Cleved Matrix (S4) wetland hydrology must be present. sstrictive Layer (if present): Type:	Thick D	k Surface (A12)	Redox Depressions (F8)			
_ Sandy Cleved Matrix (S4) wetland hydrology must be present. strictive Layer (if present):	Sandy A	cky Mineral (S1)	Vernal Pools (F9)		³ Indicators of hydro	phytic vegetation and
strictive Layer (if present): Type:			an baran an a		wetland hydrolc	gy must be present.
Type:			<u>ana na kata na</u>		1	
Depth (inches):			la texterior de la companya de la co		e de la companya da s	이 동네는 것을 통합하는 것
BRÔLOGY etland Hydrology Indicators: Secondary Indicators (2 or more required intervence) fmary Indicators (any one Indicator Is sufficient) Water Marks (B1) (Riverine)			anany Ny INSEE dia mampikambana mampikambana mampikambana mampikambana mampikambana mampikambana mampikambana mampika	and the second	Undela Call Proces	17 Yon V No
DRÔLOGY etland Hydrology Indicators: Secondary Indicators (2 or more required //mary Indicators (env one Indicator Is sufficient) Water Marks (B1) (Riverine)	Debru (iu	ea)			Hyone don Hesen	
Surface Water (A1)	Wetland Hy	ology Indicators:	<u></u>		Secondary In	dicators (2 or more required)
High Water Table (A2) Biolic Crust (B12) Diff Deposits (B3) (RiverIne) Saturation (A3) Aquatic invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (NonriverIne) Hydrogen Sutfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (NonriverIne) Oxidized Rhizospheres along LWing Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (NonriverIne) Oxidized Rhizospheres along LWing Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (NonriverIne) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C5) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) ✓ Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) eld Observations: No X Depth (inches): ater Table Present? Yes No X Depth (inches):	Primary Indi	tors (any one indicator is suffici	zient)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Water Mr	arks (B1) (Riverine)
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	Sedimer	Deposits (B2) (Nonriverine)	Oxidized Rhizospheres a	long Living Rool	s (C3) Thin Muc	k Sufface (C7)
Inundation Visible on Aerial Imagery (B7) ✓ Other (Explain in Remarks)	Drift Der	sits (B3) (Nontiverine)	Presence of Reduced Inc	n (C4)	Crayfish	Burrows (C8)
_ Water-Stained Leaves (B9) FAC-Neutral Test (D5). etd Observations: Inface Water Present? Yes No K Depth (inches): ater Table Present? Yes No K Depth (inches):	Surface	oil Cracks (B6)	Recent from Reduction in	Plowed Soils (C	6) <u>Saturatio</u>	n Visible on Aerial Imagery (CS
eld Observations: Inface Water Présent? Yes No K Depth (inches): ater Table Present? Yes No K Depth (inches):	Inundet	Visible on Aerial Imagery (B7)) X Other (Explain in Remain	(š) – e e e e e e e	Shallow /	Aquitard (D3)
eld Observations: Inface Water Présent? Yes No K Depth (inches): ater Table Present? Yes No K Depth (inches):				and which the	FAC-Neu	tral Test (D5)
Irface Water Present? Yes No K Depth (inches):		and the second				an a
ater Table Present? Yes <u>No ×</u> Depth (Inches):	Water-S		Jo X Denth (inches)			
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	Water-S Field Obser Surface Wat Water Table		lo <u> </u>	Wetla	nd Hydrology Prese	nt? Yes <u>X</u> No
cludes capillary fringe)	Water-S Field Obser Surface Wat Water Table Saturation P	lary fringe)			familahlar	and the second secon
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water-S Field Obser Surface Wat Water Table Saturation P (includes cap		moning well, aenal photos, previol	is inspections), i	I AVAIIZLIS.	
	Water-S Field Obser Surface Wat Water Table Saturation P (includes cap	xded Data (stream gauge, mon	en regente grade de	Artista <u>e esta e</u>	17	
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wist but not saturated - topo & maist suits in dry season	Water-S Field Obser Surface Wat Water Table Saturation P (Includes car Describe Re Remarks:	orded Data (stream gauge, mon	too & man -it	٨.	A	a a sa ana ang ang ang ang ang ang ang ang an
n en la sector de la companya de la	Water-S Field Obser Surface Wat Water Table Saturation P (Includes car Describe Re Remarks:	orded Data (stream gauge, mon	topo & moist shile	, in dry	season	
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Army Corps of Engineers Arid West Version 11-1	Water-S Field Obser Surface Wat Water Table Saturation P (Includes car Describe Re Remarks:	orded Data (stream gauge, mon	- topo z maist suite	, in dry	Sta Son	
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	Water-S Field Obser Surface Wat Water Table Saturation P (Includes car Describe Re Remarks: MoiSi k	orded Dala (stream gauge, mon M Molt Saturnfed -	topo z maist suite	, in dry	Sta Son	And West - Version 11-1-2

Applicant/Owner: TAMC	·		State: Sampling Point:
Investigator(s): <u>JD SCH</u>		Section, Township, R	
Landform (hillslope, terrace, etc.):			
Subregion (LRR): LPP C	Lat:	- 0.05	Long; Datum:
Soil Map Unit Name: Bay wood Sand	2-15-7281	opacia u	NWI classification:
Are climatic / hydrologic conditions on the site typical		,	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			e "Normal Circumstances" present? Yes X N
Are Vegetation Soll, or Hydrology	✓ naturally pro	blematic? (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing	sampling point	locations, transects, important feature
Hydrophytic Vegetation Present? Yes	No 4	t i ser com este	
Hydric Soil Present? Yes		Is the Sample within a Weti	
Wetland Hydrology Present? Yes	NoX	WITHIN A MED	
Remarks:		. • Na	
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			a sa sa ang sa
VEGETATION		an a	en e
Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Indicator Species7 Status	 A second s
1. NONE		Operiest James	- Number of Dominant Species That Are OBL, FACW, or FAC:
2			
3.			Total Number of Dominant
4		· ·····	Percent of Dominant Species
Sapling/Shrub Stratum	Cover:		Thet Are OBL, FACW, or FAC: 5075
1. NONe			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			_ OBL species x 1 =
4.			_ FACW species x 2 =
5.		. ·	_ FAC species x 3 = FACU species x 4 =
Herb Stratum	Cover:	ter vers	UPL species x 5 =
1 Brumus diandrus	20%		- Column Totals: (A)
2. Lactuca serriola	<u> </u>	Y FAC	
3. Brzssica nyra 4 Melilotus Indicus	370	T FAC	Prevalence index = B/A =
			Dominance Test is >50%
5		- <u></u>	Prevalence Index is <3.01
7			Morphological Adaptations ¹ (Provide suppor
8			data in Remarks or on a separate sheet)
	Cover:		Problematic Hydrophytic Vegetation ¹ (Explaining Content of Co
Woody Vine Stralum	•		¹ Indicators of hydric soil and wetland hydrology r
12.			be present.
	Cover:		- Hydrophytic
1.01		rust	Vegetation Present? YesNoX
Remarks:			

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00"					Sampling Point:	413
SOIL		depth needed to document the indic	otor or orofirm (ha sheanca		<u></u>
Depth	Matrix	Redox Features		ing sparing :		
(inches)	Color (moist) %		pe' Loc ²	Texture	Remarks	
0-76	1018312		Sandy.	lam	n an an tha tha an	
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			- "مستنتخت الحبيب			<u> </u>
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			The first second se	an a		
The second	Concentration, D=Depletion,	DM-Dectored Matrix 21 cretion: Pl	=Pore Lining, RC	-Rool Chang	el M=Malrix	
		o all LRRs, unless otherwise noted.)	-Fore Entring, ive		for Problematic Hydric Sol	ls ³ :
Histoso		Sandy Redox (S5)		1 cm M	luck (A9) (LRR C)	
	pipedon (A2)	Stripped Matrix (S6)			fuck (A10) (LRR B)	
Black H	listlo (A3)	Loamy Mucky Mineral (F1		· · · · · · · · · · · · · · · · · · ·	ed Vertic (F18)	
	en Sulfide (A4)	Loamy Gleyed Matrix (F2)			arent Material (TF2)	
	ed Layers (A5) (LRR C)	Depleted Matrix (F3)		Other (Explain in Remarks)	
	uck (A9) (LRR D) d Below Dark Surface (A11)	Redox Dark Surface (F6)) Depleted Dark Surface (F3)	n			
	ed Below Dark Sufface (A11) Jark Surface (A12)	Redox Depressions (F8)	• •			
	Mucky Mineral (S1)	Vernal Pools (F9)		^a indicators	of hydrophytic vegetation and	.
	Gløyed Matrix (S4)	anta a da per dia di kana di ka Kana di kana di	ta kang dipang dipan Reference dipang dipan	wetland	hydrology must be present.	n de la composition de la composition de
Restrictive	Layer (if present):					
Type:			ana ang ang ang ang ang ang ang ang ang	en e	en official design of the second s	λ
					Bin hands the literation of th	
Depth (Ir Remarks:	nches):			Hydric Soll	Present? Yes	₩ <u>~</u> ,
	Shin (Artas) Mana					
Remarks:	Shin (Artas) Mana				Present res n	quired)
Remarks: HYDROLC Wetland Hy	λġγ	anticipation of the second s		Secon		<u>quired)</u>
Remarks: HYDROLC Wetland Hy Primary Ind)GY ydrology (ndicators:	sufficient)		Secon Vi	idary Indicators (2 or more re /ater Marks (B1) (RI verine) ediment Deposits (B2) (RI ver	
Remarks: HYDROLC Wetland Hy Primary Ind	DGY ydrology Indicators: ficators (any one indicator is	and the second		Secon V S D	idary Indicators (2 or more re /ater Marks (B1) (Riverine) ediment Deposits (B2) (River rift Deposits (B3) (Riverine)	
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Applicant/Owner: TAMC		a Malana an An	State: <u>CA</u> Sampling Point:
nvesligator(s): JDZJH		Section, Township, Rei	nge:
		Local relief (concave,	convex, none): <u>CONCAVE</u> Stope (%): <u>2</u>
Subregion (LRR): 1 P.C	Lat:		_ Long; Dalum;
Soil Map Unit Name: Baywood Sa	md 2-15% S	lopes	NWI classification:
Are climatic / hydrologic conditions on the site		N .	
	,		Normal Circumstances" present? Yes <u>k</u> No
Are Vegetation N Soil N, or Hydro			
	n site man showing	sampling point l	ocations, transects, important features, e
	es_XNo		
	s X No	is the Sampled within a Wetlar	
Wetland Hydrology Present? Ye	es <u>X</u> No		
Remarks: The second sec	a Alfa Na Sh	a da ser en la companya da ser en la company En la companya da ser en la companya da ser e	
		등 사람은 모양 [191] 제품 제품 제품 제품 제품	가 있는 것이 있다. 같은 것이 이 것이 있는 것
VEGETATION		an an an Angela. Taona an Angela	
		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.) 1. Nove		<u>Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2			
			Total Number of Dominant (B)
4	······································	. <u> </u>	Percent of Dominant Species
Couling/Church Stratum	Total Cover:	•	That Are OBL, FACW, or FAC: (A
Sapling/Shrub Stratum			Prevalence Index worksheet:
2.		·····	Total % Cover of:Multiply by:
·3. <u></u>	<u>na ada ana ang ang ang ang ang ang ang ang an</u>	· <u> </u>	OBL species × 1 =
4	<u></u>		FACW species x 2 =
5			FAC species x 3 = FACU species x 4 =
Herb Stratum	Total Cover:	i lan sa ka	UPL species x 5 =
1. Amplex triangularis	BUZ	Y NU	Column Totals: (A) (I
2 lavatera Sp."	18	N NL	· 가이 · · · · · · · · · · · · · · · · · ·
3. Poly pugon munspelien	<u>sis</u> <u>270</u>	<u>N FACN</u>	Prevalence index = B/A = Hydrophytic Vegetation Indicators:
4. <u> </u>	and the second second		Dominance Test is >50%
56.	in an	·	Prevalence index is ≤3.0 ¹
			Morphological Adaptations ³ (Provide supporting
8			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain)
	Total Cover:	en an	
Woody Vine Stratum		ala anti-	¹ Indicators of hydric soil and wetland hydrology musi
2.			be present.
۵۱	Total Cover:		Hydrophytic
% Bare Ground in Herb Stratum	% Cover of Blotic C	- inist	Vegetation Present? Yes No
Remarks:			a man lang hieddowd spill
Newclation distuited	by regular v	ndin Tenana	e - area has wettand soil
and manipart	~ HIVIDICA !!	SUM I TOURI	A CULU THE THE REAL

	and the second	epth needed to document the Ind	icator or confirm	n the absence of ind	leators.)	
Depth (inche§)	Matrix or (moist) %	Redox Features Color (moist) % 1	ype ¹ Loc ²	Texture	Remarks	
0-20 10			<u> </u>	Sandyloam		te distigate
$\left 0^{-} \overline{0} \right $	<u>16-41</u>			Juing Main	<u> </u>	
	<u>antonaldar e da</u> distante		····	<u></u>		
	· ···		1997) 		<u>a an an</u>	
			and the second	elest fred i suid. Statist	 as Turning and 	191
			a ang san	and the second sec		
		The second s	an states saub			
	<u></u>		ning and the second			<u>e ale te del</u>
			······	<u>an an a</u>	<mark>a an anna an </mark>	
				RC=Root Channel, M:	Mairix.	<u>11 "</u> 3.
·	ors: (Applicable to a	all LRRs, unless otherwise noted.)		oblematic Hydric So	(15 :
Histosol (A1)		Sandy Redox (S5)		1 cm Muck (/		
Histic Epipedon Black Histic (A3)		Stripped Matrix (S6) Loamy Mucky Mineral (F	a	Reduced Ver	410) (LRR B) tic (E18)	
Hydrogen Sulfid		Loamy Gleyed Matrix (F2	and a second second second		Asterial (TF2)	
Stratified Layers		Z Depleted Matrix (F3)	-,		n in Remarks)	
1 cm Muck (A9)		Redox Dark Surface (F6))	(
	Dark Surface (A11)	Depleted Dark Surface (I				
Thick Dark Surfa		Redox Depressions (F8)		•		
Sandy Mucky M		Vernal Pools (F9)	a Alexan		rophytic vegetation an	
Sandy Gleyed N			<u></u>	wettand nydro	logy must be present.	
Restrictive Layer (ii	r present):	na an Araba				
Type:		<u> </u>			Х	No
Depth (inches): _ Remarks:	<u></u>			Hydric Soli Prese	nt? Yes	NO
	- x - 3862.	en an Andrea (1997) A chille e chille an an	an a	an tha an	a sa an	
	ala (1866) Maratan Maratan	n an tao an Ang ang ang an Rowang ang La Tao Ang		en transformation An Angeler Marine and Angeler Angeler		
		n an		Secondary	ndiretors (2 primare in	
Wetland Hydrology	Indicators:	en an teachta 1973 - Anna III 1994 - III 1997 - Anna III 1997 - Anna III 1997 - Anna III			ndicators (2 or more re larks (B1) (Riverine)	equired)
Wetland Hydrology Primary indicators (a	Indicators: ny one indicator is su	5 C		Water N	larks (B1) (Riverine)	
Wetland Hydrology Primary Indicators (a Surface Water ()	Indicators: ny one indicator is su A1)	Salt Crust (B11)		Water M	larks (B1) (Riverine) nt Deposits (B2) (Rive	rine)
Wetland Hydrology Primary indicetors (a Surface Water (High Water Tabl	Indicators: ny one indicator is su A1) e (A2)	Salt Crust (B11) Biotic Crust (B12)		Water N Sedime Drift De	larks (B1) (Riverine) nt Deposits (B2) (Rive posits (B3) (Riverine)	rine)
Wetland Hydrology <u>Primary Indicators (a</u> Surface Water (a High Water Tabl Saturation (A3)	Indicators: ny one indicator is su A1) e (A2)	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B		Water M Sedimer Drift De Drainag	larks (B1) (Riverine) ht Deposits (B2) (Rive posits (B3) (Riverine) e Pattems (B10)	erine)
Wetland Hydrology <u>Primary Indicators (a</u> Surface Water (a High Water Tabl Saturation (A3) Water Marks (B	Indicators: ny one indicator is su A1) e (A2) t) (Nonrfverine)	Sall Crust (B11) Biotic Crust (B12) Aquatic invertebrates (B Hydrogen Sulfide Odor	(C1)	Water N Sedime Drift De Drainag	larks (B1) (Riverine) ht Deposits (B2) (Rive posits (B3) (Riverine) e Pattems (B10) son Water Table (C2)	erine)
Wetland Hydrology <u>Primary Indicetors (a</u> Surface Water (a High Water Table Saturation (A3) Water Marks (B Sediment Depose	Indicators: <u>ny one indicator is su</u> A1) e (A2) 1) (Nonrfverine) sits (B2) (Nonrfverine)	Sall Crust (B11) Biotic Crust (B12) Aquatic invertebrates (B Hydrogen Sulfide Odor	(C1) along Living Roc	Water M Sedime Drift De Drainag Dry-See Sts (C3) Thin Mu	larks (B1) (Riverine) ht Deposits (B2) (Rive posits (B3) (Riverine) e Pattems (B10)	erine)
Wetland Hydrology <u>Primary Indicetors (a</u> Surface Water (a High Water Table Saturation (A3) Water Marks (B Sediment Depose	Indicators: <u>ny one indicator is su</u> A1) e (A2) 1) (Nonrfverine) sits (B2) (Nonriverine) 3) (Nonriverine)	Sall Crust (B11) Biolic Crust (B12) Aquatic invertebrates (B Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced in Recent fron Reduction i	(C1) along Living Roc ron (C4)	Water M Sedime Dift Dej Drift Dej Drainag Dry-See Sts (C3) Thin Mu Crayfish	larks (B1) (Riverine) ht Deposits (B2) (Rive posits (B3) (Riverine) e Pattems (B10) son Water Table (C2) ck Surface (C7)	rine)
Wetland Hydrology Primary Indicators (a Surface Water (a High Water Table Saturation (A3) Water Marks (B Sediment Deposed Drift Deposits (B Surface Soil Cra	Indicators: <u>ny one indicator is su</u> A1) e (A2) 1) (Nonrfverine) sits (B2) (Nonriverine) 3) (Nonriverine)	Sall Crust (B11) Biolic Crust (B12) Aquatic invertebrates (E Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced Ir Recent Iron Reduction i	(C1) along Living Roo on (C4) in Plowed Soils ((Water M Sedime Drift De Drift De Drainag Dry-See Sts (C3) Thin Mu Crayfish C6) Saturati Shallow	larks (B1) (Riverine) ht Deposits (B2) (Riverine) e Pattems (B10) son Water Table (C2) ck Surface (C7) Burrows (C8) on Visible on Aerial In Aquitard (D3)	rine)
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Wetland Hydrology Primary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B Sediment Deposit Drift Deposits (B Surface Soil Cra Inundation Visib Water-Stained L	Indicators: ny one indicator is su A1) e (A2) i) (Nonriverine) sits (B2) (Nonriverine) cks (B5) le on Aerial Imagery (eaves (B9)	Sall Crust (B11) Biotic Crust (B12) Aquatic invertebrates (E Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced Ir Recent Iron Reduction i	(C1) along Living Roo on (C4) in Plowed Soils ((Water M Sedime Drift De Drift De Drainag Dry-See Sts (C3) Thin Mu Crayfish C6) Saturati Shallow	larks (B1) (Riverine) ht Deposits (B2) (Riverine) e Pattems (B10) son Water Table (C2) ck Surface (C7) Burrows (C8) on Visible on Aerial In Aquitard (D3)	rine)
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WETLAND DETERMINATION DATA FORM	- Arid West Region
Project/site: Monter of Peninsula Fixed Guideway city/county: Marte	rey/Monterey sempling Date: 6-22-DG
Applicant/Owner:TAMC	State; CASampling Point:S
nvestigator(s): UDQUH Section, Township, R	이 집에 집에 있는 것은 것이 있는 것은 것은 것을 가지 않는 것이 가지 못 했다. 것은 것을 가지 않는 것을 했다.
	convex, none): <u>CUNCAVE</u> Slope (%): 170
Subregion (LRR): <u>LPP</u> <u>Lat</u>	
Soll Map Unit Name: Bay wood Sand 2-1575 Slopes	NWI classification:
	(If no, explain in Remarks.)
고급 경찰 가운영 화복했다. 방법 전에 가지 있는 것이 있는 것이 가지 못했다. 것이 가 문화가 있었다. 이 가 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 이 가 있는 것이	"Normal Circumstances" present? Yes <u>K</u> No
	물건이 가지 않는 것 같은 것은 것은 것은 것을 얻는 것이 것 않는 것이 같다. 것은 것은 것은 것이 가지는
방송 관련 정말 물건들이 다 있는 것 같이 하는 것 같은 것 같	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.
Hydrophylic Vegetation Present? Yes No to the Sample	d Area
Hydric Soil Present? Yes K No Within a Wette	an the second state of the
Wetland Hydrology Present? Yes X No	
Remarks: Does not meet ACOE definition of a wetle	and May be under
Does normileer sue altimition of a were	
CA Coastal Commission, jurisdiction	
/EGETATION	
Absolute Dominant Indicator Tree Stratum (Use scientific names.) <u>% Cover Species? Status</u>	그는 그는 이번 동안에 가장 이 가지 않는 것이 것 같은 것은 것 같은 것 같은 것을 하는 것을 하는 것
1. NML	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	에는 그는 영상에는 명한 것을 가지 못했을까? 것을 받았다.
3.	Total Number of Dominant (B)
4	Percent of Dominant Species
Total Cover:	That Are OBL, FACW, or FAC: 010 (A/B)
Sapling/Shrub Stratum	Prevalence Index worksheet:
1 None	Total % Cover of: Multiply by:
2	OBL species x1 =
	FACW species x 2 =
5	FAC species x 3 =
Total Cover:	FACU species x 4 =
Herb Stratum	UPL species x 5 =
1. Bromus diandrus 20% Y NL 2. Ehrharta erecta 10% Y NL	- Column Totals: (A) (B)
2 Ehrharta erecta 10% Y NL 3 Lavatera Sp. 570 N NL	- Prevalence Index = B/A =
4 VULDIA 50. 25% Y NL	Hydrophytic Vegetation Indicators:
	- Dominance Test is >50%
5 <u></u>	Prevalence index is ≤3.0 ¹
7.	Morphological Adaptations ¹ (Provide supporting
8	data in Remarks or on a separate sheet)
Total Cover;	Problematic Hydrophytic Vegetalion' (Explain)
Woody Vine Stratum	Indicators of hydric soil and wetland hydrology must
	be present.
2	- Hydrophytic
Total Cover: % Bare Ground In Herb Stratum % Cover of Blotic Crust	Vegetation Present? Yes No
Remarks:	

cofile Deceription: (Deceribs to the death	needed to document the indicator or conf	Sampling Point:
	Redox Features	uni tur angeline in Heinereis).
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-70 ID-122/1		Sanay bam
		and the second
		· 역사 · · · · · · · · · · · · · · · · · ·
	and a second	
		and the second secon
	· · · · · · · · · · · · · · · · · · ·	
Type: C=Concentration, D=Depletion, RM=R	educed Matrix. ² Location: PL=Pore Lining), RC=Root Channel, M=Matrix.
Hydric Soll Indicators: (Applicable to all LR	IRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ ;
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 Verlic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	K 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)	$(x_1, x_2, \dots, x_{n-1}) = \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{$
Thick Dark Surface (A12)	Redox Depressions (F8) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)		wetland hydrology must be present.
Restrictive Layer (if present):	<u>na series de la construcción de la</u>	
	a character and the second	
		Hydric Soll Fresent? Yes 🔨 No
Depth (inches):	·····	Hydric Soli Fresenti Tes 7.
	n an ann an Anna an An Anna anna a	
and the second		Secondary Indicators (2 or more required)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	nn).	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	ni)Salt Crust (511)	
Wetland Hydrology Indicators: Primery Indicators (any one indicator is sufficie Surface Water (A1)	Maximum and the second s	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficie Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biolic Crust (B12)	Weter Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primery Indicetors (any one Indicator is sufficie Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11)	Weter Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficie Surface Water (A1) High Water Table (A2)	Sall Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10)
Vetland Hydrology Indicators: Primary Indicetors (any one Indicator Is sufficie Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrfverine)	Sall Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficie Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrfverine) Sediment Deposits (B2) (Norriverine)	Sall Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Vetland Hydrology Indicators: rimary Indicators (any one Indicator Is sufficie Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Sall Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F 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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Vetland Hydrology Indicators: <u>Primary Indicators (any one Indicator Is sufficie</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (NonrfverIne) Sediment Deposits (B2) (NonrfverIne) Drift Deposits (B3) (NonrfverIne) Surface Soil Cracks (B6)	Sall Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Solit	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9)
Vetland Hydrology Indicators: <u>Primary Indicators (any one Indicator Is sufficie</u> 	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficie Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrfverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Sufface Soil Cracks (B6) Inundation Visible on Aeriel Imagery (B7) Water-Stained Leaves (B9) Field Observations:	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficie Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrfverine) Sediment Deposits (B2) (Nonrfverine) Drift Deposits (B3) (Nonrfverine) Sufface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) XDepth (Inches);	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Is (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: <u>Primary Indicators (any one Indicator Is sufficie</u> 	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) XDepth (Inches);	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Is (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficie Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Sufface Soil Cracks (B6) Inundation Visible on Aeriel Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Nater Table Present? Yes No Saturation Present? Yes No Saturation Present? Yes No		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: rimary Indicators (any one Indicator Is sufficie 		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficie		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: primary Indicetors (any one Indicator Is sufficie 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) Vater-Stained Leaves (B9) Vater Table Present? Yes No Saturation Present? Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Sole Other (Explain in Remarks) Depth (Inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Action Hydrology Present? Yes <u>No</u> s), if available: No <u>J</u> JY Season
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) (C5) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficie	Sall Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced iron (C4) Recent Iron Reduction in Plowed Solis Other (Explain in Remarks) Depth (inches): Depth (inches): What coming well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Action Hydrology Present? Yes <u>No</u> s), if available: No <u>J</u> JY Season

WETLAND DETERMINA	TION DATA FORM – Arid West Region
Project/Site: <u>GWR OH Sqlinas Fiver</u>	City/County: <u>Monteney</u> Sampling Date: <u>2-10-15</u> State: <u>CA</u> Sampling Point: <u>X54</u>
	Local relief (concave, convex, none): Mane Slope (%): O
Subregion (LRR): Arid West (L(RRC) Lat:,	Long: Datum: <u>NAD83</u>
Soil Map Unit Name: Alusso	Long: Datum: <u>NAD83</u>
Are Vegetation, Soil, or Hydrology significa Are Vegetation, Soil, or Hydrology naturally SUMMARY OF FINDINGS – Attach site map show	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sampled Area within a Wetland? Yes No
Remarks: 3rd year of drought condit	tions, statewide.
VEGETATION – Use scientific names of plants.	

Tree Stratum (Plot size:) 1		Dominant In Species? S		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata:
3 4 <u>Sapling/Shrub Stratum</u> (Plot size: <u>10'x10'</u>) 1. <u>Scivpus</u> (alifor Rijca	80		BL_	Species Across All Strata:
2 3 4 5	_		_	OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 =
Herb Stratum (Plot size: <u>5'X5</u>) 1. <u>Potentilla Grasenina pacifica</u> 2. <u>Jahnen Clamosa</u> 3	15	<u> 0</u>	BL	UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = (B)
4 5 6.				Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹
7 8			r	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:) 1 2				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Cove	er of Biotic C			Hydrophytic Vegetation Present? Yes X No
Remarks:				

				\mathcal{V}
			. >	1

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Depth Matrix	needed to document the indicator or confir	m the absence of indicators.)
	Redox Features	-
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
04/R2/1 100_		Cay
7-18 10 YR 3/1 100 _		Sandy Clar Dam
		0 1.
· · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·
		And the second se
		· · · · · · · · · · · · · · · · · · ·
	educed Matrix, CS=Covered or Coated Sand C	
lydric Soil Indicators: (Applicable to all LR	김 말 다 나는 것을 많은 것을 가 같다.	Indicators for Problematic Hydric Soils ³ :
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) _ Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Red Parent Material (TF2) 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)	³ 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):		
Туре:	-	Contractor and the second second
Depth (inches):		Hydric Soil Present? Yes No X
Remarks:		
/DROLOGY		
11.22.29.10		
Vetland Hydrology Indicators:	heck all that apply)	Secondary Indicators (2 or more required)
Vetland Hydrology Indicators: rimary Indicators (minimum of one required; c		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
/etland Hydrology Indicators:	Salt Crust (B11)	Water Marks (B1) (Riverine)
Vetland Hydrology Indicators: rimary Indicators (minimum of one required; c Surface Water (A1)		 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
/etland Hydrology Indicators: rimary 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)
Vetland Hydrology Indicators: rimary 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)
/etland Hydrology Indicators: rimary 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 Ro 	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
/etland Hydrology Indicators: rimary 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) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators: rimary 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 Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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 Ro 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)

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

Remarks:

roject/Site: <u>GWR (618 SaliMas Ru</u> oplicant/Owner: <u>MRWPCA</u>	-		State: Sa	ampling Point:	- 55
vestigator(s): 14. Jahnson, S.Hession	1	Section, Township, Ra	nge:		-
andform (hillslope, terrace, etc.): Bank		Local relief (concave,	convex, none): NONE	Slope (%	6): O
andform (hillslope, terrace, etc.): <u>Bank</u> ubregion (LRR): <u>Arid</u> ukst (LRRO)	Lat		Lona:	Datum:	IAD 8
all Man Linit Names All Liss			NIMI classification	n: Forslau 1/4 ten	- True au
oil Map Unit Name: <u>Aluise</u> re climatic / hydrologic conditions on the site typical for t	the stress of the	No. No.	/If no, overlain in Rom	ortal Wetla	nd
re climatic / hydrologic conditions on the site typical for t	this time of yea				Ne
re Vegetation, Soil, or Hydrology					NO
re Vegetation, Soil, or Hydrology	_ naturally pro	blematic? (If ne	eeded, explain any answers i	n Remarks.)	
UMMARY OF FINDINGS – Attach site ma	p showing	sampling point I	ocations, transects, in	nportant featu	res, etc.
	10	1.5. 5. 7			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes		Is the Sampled			
Wetland Hydrology Present?		within a Wetla	nd? Yes X	No	
Remarks:					
Remarks: Drought Conditions					
0					
EGETATION – Use scientific names of pla	ants.		a second second		
Tree Stratum (Plot size:)	Absolute	Dominant Indicator	Dominance Test worksho		
			Number of Dominant Spec That Are OBL, FACW, or F		(A)
1 2					_ vv
3			Total Number of Dominant Species Across All Strata:		(B)
4.					_ (0)
+i		= Total Cover	Percent of Dominant Spec That Are OBL, FACW, or I	AC: 100	(A/B)
Sapling/Shrub Stratum (Plot size: 10×10)					_ ((0)
1. Scirpus californicus	80	Y OBL	Prevalence Index works		
2		·	Total % Cover of:		
3			OBL species		
4		·	FACW species		_
5	- 20		FAC species		
Herb Stratum (Plot size: 5 X5)	20	= Total Cover	FACU species		
1. Potentilla anderina 552. pacifica	10	Y CBL	UPL species Column Totals:		
				(A)	(B)
3.			Prevalence Index =	B/A =	_
4			Hydrophytic Vegetation		
5			Dominance Test is >5		
6			Prevalence Index is ≤		
7			Morphological Adapta	tions ¹ (Provide sup	porting
8				r on a separate she	
The state of the s	10	_ = Total Cover	Problematic Hydrophy	yuc vegetation (Ex	piaili)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil a	nd wetland hydrolog	w must
1			be present, unless disturb	ed or problematic.	y must
2		= Total Cover		1000 A 100 A 100 A	
Z		= Lotal Covor	Hydrophytic		
% Bare Ground in Herb Stratum % Co			Vegetation	<u> X</u> No	

S

Depth Matrix Redox Features Color (molist) % Type Loc ² Texture Remarks Q ⁻ B LOY (L 4/L 1/0 ^{-D}) Calu Calu Calu Calu Q ⁻ B LOY (L 4/L 1/0 ^{-D}) Calu Calu Calu Calu Calu Type: Concentration D-Depletion RM-Reduced Matrix, CS=Covered or Casted Sand Grains *Location: PL=Pore Lining, M=Matrix, Hydric Soil Informatic Hydric Soil Present; Histosol (A1) Stripped Matrix (F3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydric Soil Informatic Hydric Soil Informatic Hydric Soil Informatic Hydric Soil Informatic Hydric Soil Present; Type: Other (Explain Informatic Hydric Soil Present; Type: Communic Hydric H		iption: (Describe to	the depth need	ed to document the	a indicator or	confirm the	absence of	indicators.)
2 - 18 10 Y L 4/L 10 D Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains,		Matrix		Redox Featur	res			
Type: CC Co CC Stratified Layers (A5) (LRR C) C Depleted Matrix (F3) Co Sandy Mucky (Mineral (S1) Cenary Contractice (F6) Thick Dark Surface (A12) Redor Dark Surface (F7) Thick Dark Surface (A12) Redor Dark Surface (F1) Sandy Mucky (Mineral (S1) Vernal Pools (F9) Wetter Marks (S4) Secondary Indicators (2 or more resulted) Surface Water (A1) Selt Crust (B11) Secondary Indicators (1	21-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-			r (moist) %	Type ¹	Loc ²	Texture	Remarks
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histic Epipedon (A2) Striped Matrix (S6) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Striped 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 (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Dark Surface (F6) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) unless disturbed or problematic. Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: Hydric Soil Present? Yes No No Stratific Layer (if present): Satt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Surface Water (A1) Satt Crust (B12) Sediment Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Saturation (A3) </td <td>2-18</td> <td>10464/1 1</td> <td>60</td> <td></td> <td></td> <td>C</td> <td>lan</td> <td></td>	2-18	10464/1 1	60			C	lan	
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histos (A1)							0	
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histic Epipedon (A2) Striped Matrix (S6) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Striped 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 (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Dark Surface (F6) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) unless disturbed or problematic. Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: Hydric Soil Present? Yes No No Stratific Layer (if present): Satt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Surface Water (A1) Satt Crust (B12) Sediment Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Saturation (A3) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ŀ</td>								ŀ
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histic Spleadon (A2) Striped Matrix (S6)								
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histos (A1)								
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ² ;	Type: C=Cor	ncentration, D=Deplet	on, RM=Reduce	d Matrix, CS=Cover	ed or Coated !	Sand Grains	2Locatio	on: PL=Pore Lining, M=Matrix.
								Problematic Hydric Soils ³ :
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Suffide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Gleyed Matrix (S4) Vernal Pools (F9) wetland hydrology must be present. Sandy Gleyed Matrix (S4) Ural Pools (F9) Wetland hydrology must be present. Type:	Histosol (A1)		Sandy Redox (S5)				
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) *Indicators of hydrophytic vegetation and sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if present): Type:	Histic Epi	pedon (A2)		Stripped Matrix (S6))	112	the second se	
	Black Hist	tic (A3)		Loamy Mucky Miner	ral (F1)	_	Reduced	Vertic (F18)
				Loamy Gleyed Matri	ix (F2)		Red Pare	nt Material (TF2)
			X	Depleted Matrix (F3)		_ Other (Ex	plain in Remarks)
	and the second s			Redox Dark Surface	∌ (F6)			
			A11)					
					(F8)	3	Indicators of h	ydrophytic vegetation and
Restrictive Layer (if present): Type:				Vernal Pools (F9)				
Type:							unless distu	rbed or problematic.
Depth (inches): Hydric Soil Present? Yes X No Remarks: Primary Indicators: No No No YDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C Inundation Visible on Aerial Imagery (B7) X Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) Y FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): Mater Table Present? Water Table Present? Yes No Depth (inches): Mater Table Present? Yes<		ayer (if present):						
Wetmarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1)								~
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches):	Depth (inch	nes):				H	ydric Soil Pre	esent? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	Remarks:							
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)								
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)								
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)								
Surface Water (A1)			all the second se					
High Water Table (A2)	Vetland Hydr	ology Indicators:						
	Vetland Hydr Primary Indica	ology Indicators: tors (minimum of one	required; check	all that apply)			Secondar	y Indicators (2 or more required)
	Vetland Hydr rimary Indica	ology Indicators: tors (minimum of one	required; check				States	/astronometers/astronometers/
	Vetland Hydr rimary Indica Surface W	rology Indicators: tors (minimum of one Vater (A1)	required; check	Salt Crust (B11)			Wate	r Marks (B1) (Riverine)
	Vetland Hydr rimary Indica Surface W High Wate	rology Indicators: tors (minimum of one Vater (A1) er Table (A2)	required; check	Salt Crust (B11) Biotic Crust (B12)	es (B13)		Wate Sedir	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
_ Drift Deposits (B3) (Nonriverine) _ Presence of Reduced Iron (C4) _ Crayfish Burrows (C8) _ Surface Soil Cracks (B6) _ Recent Iron Reduction in Tilled Soils (C6) _ Saturation Visible on Aerial Imagery (B7) _ Thin Muck Surface (C7) _ Shallow Aquitard (D3) _ Vater-Stained Leaves (B9) _ Other (Explain in Remarks) _ FAC-Neutral Test (D5) ield Observations: urface Water Present? Yes _ No _ Depth (inches): _/ //	/etland Hydr rimary Indica Surface W High Wate Saturation	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3)	-	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat			Wate Sedir Drift	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)
	/etland Hydr rimary Indica Surface W High Wate Saturation Water Ma	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C	Odor (C1)	ing Roots (C	Wate Sedir Drift Drain	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
_ Inundation Visible on Aerial Imagery (B7) _ Water-Stained Leaves (B9) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): /ater Table Present? Yes No /ater Table Present? Yes /ater Table Present? Yes /ater Table Present? Yes /ater Table Present	Vetland Hydr rimary Indica Surface W High Wate Saturation Water Ma Sediment	rology Indicators: <u>tors (minimum of one</u> Jater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriv) /verine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosph	Ddor (C1) eres along Liv	ing Roots (C	Wate Sedir Drift Drain 23) Dry-S	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches):	Vetland Hydr Trimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriverine ssits (B3) (Nonriverine) /verine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosphi Presence of Reduc	Ddor (C1) eres along Liv œd Iron (C4)		Wate Wate Drift Drift Drain Crayl Crayl	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) fish Burrows (C8)
ield Observations:	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriverine osits (B3) (Nonriverine oil Cracks (B6)) verine) 2)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc	Ddor (C1) eres along Liv ced Iron (C4) tion in Tilled S		Wate Wate Sedir Drift Drain Crayt Satur Satur	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9
Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches):	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundatior	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) h (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriverine oil Cracks (B6) h Visible on Aerial Ima) verine) 2)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	Odor (C1) eres along Liv ced Iron (C4) tion in Tilled S (C7)		Wate Wate Drift Drift Drain Crayf Satur Satur Shall	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
Vater Table Present? Yes X No Depth (inches): 14	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriverine oil Cracks (B6) n Visible on Aerial Ima ined Leaves (B9)) verine) 2)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	Odor (C1) eres along Liv ced Iron (C4) tion in Tilled S (C7)		Wate Wate Drift Drift Drain Crayf Satur Satur Shall	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ow Aquitard (D3)
	Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundatior Water-Sta Field Observa	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriverine oil Cracks (B6) n Visible on Aerial Ima ined Leaves (B9) ations:) verine)) gery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Other (Explain in R	Odor (C1) eres along Liv ced Iron (C4) tion in Tilled S (C7)		Wate Wate Drift Drift Drain Crayf Satur Satur Shall	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
Saturation Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X No	Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) h (A3) rks (B1) (Nonriverine Deposits (B2) (Nonriverine oil Cracks (B6) h Visible on Aerial Ima ined Leaves (B9) ations: Present? Yes) verine) e) gery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Other (Explain in R	Odor (C1) eres along Liv ced Iron (C4) tion in Tilled S (C7)		Wate Wate Drift Drift Drain Crayf Satur Satur Shall	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)

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

Remarks:

WETLAND DE	TERMINATIO	ON DATA	FORM -	- Arid West Regio	n	
oject/site: GWR (Salinas River)	(City/County:	Mu,	stering	Sampling Date: 2-1	0-15
plicant/Owner: MR WCR				State: CA	Sampling Point:	5
estimator(s): M. Johnson S. Hess	m	Section Tov	vnship, Rai	nae:		
dform (hillslope, terrace, etc.): <u>Bank</u>		Local relief	(concave. d	convex, none): Blot	Slope (%): 0
pregion (LRR): Arid West (URR)	Lat			Long:	Datum: 📐	ADS
Map Unit Name: Aluiso				NWI classi	fication: $\overline{f \in W}$	
climatic / hydrologic conditions on the site typical for	r this time of you	ar2 Voc	No		Remarks)	
Vegetation, Soil, or Hydrology	cignificantly	disturbod?	No	Normal Circumstances'	nresent? Ves X	No
Vegetation, Soil, or Hydrology				eded, explain any answ		
						0.025
JMMARY OF FINDINGS – Attach site m	ap showing	sampling	g point le	ocations, transect	ts, important featur	es, etc.
lydrophytic Vegetation Present? Yes lydric Soil Present? Yes Vetland Hydrology Present? Yes	No X		e Sampled in a Wetlar		<u> </u>	
emarks: Drought coudition						
GETATION – Use scientific names of p	lants.					
		Dominant		Dominance Test wo	rksheet:	
ee Stratum (Plot size:)		Species?	Status	Number of Dominant		(A)
				That Are OBL, FACW	, OFFAC.	_ (~)
				Total Number of Dom Species Across All St		(B)
						_ (D)
i alvini		= Total Co	ver	Percent of Dominant That Are OBL, FACW		2 (A/B)
apling/Shrub Stratum (Plot size: 10 × 10')	00	14	OBL	Prevalence Index w	orkshoot:	-
Sciepus Californicus Bacchemis Solichome			TAC		Multiply by:	
		_ <u>N_</u>	FRE		x 1 =	
		_			x 2 =	
					x 3 =	
	95	= Total Co	ver	FACU species	x 4 =	_
erb Stratum (Plot size: $5' \chi 5'$)	100%	M	AT	UPL species	x 5 =	_
Brassia nigra	12%	-N	NL	Column Totals:	(A)	(B)
				Prevalence Ind	ex = B/A =	
				Hydrophytic Vegeta	And the last of the second sec	
				Dominance Test		
				Prevalence Inde		
					daptations ¹ (Provide supp	
					rks or on a separate shee	
		= Total Co	ver	Problematic Hyd	rophytic Vegetation ¹ (Exp	olain)
Voody Vine Stratum (Plot size:)				1		
·					soil and wetland hydrolog isturbed or problematic.	y must
×					Sector Contraction of the sector of the sect	
	-	= Total Co	ver	Hydrophytic Vegetation	Х	
				vegetation	1	
6 Bare Ground in Herb Stratum % 0	Cover of Biotic C	Crust			Yes 🥻 No 🎉	

Sampling Point:

.

Depth (inches)	Matrix		Redox Features		
	Color (moist)		Color (moist) % Type ¹	Loc ² Text	ure Remarks
0-18	6XP 3/2	106		Clay	
	with the				5
	· · · · · · · ·	·			
		- <u></u>			- <u>1</u>
-					
	0				e
1Tuno: C-Co	negative D-Dan	lation DM-D	advered Metric CC-Covered on Cov		21
			educed Matrix, CS=Covered or Coa RRs, unless otherwise noted.)		² Location: PL=Pore Lining, M=Matrix.
		able to all LI	김 씨가 많은 것이 같은 것을 들었던 것이 가지 않는다.		ators for Problematic Hydric Soils ³ :
Histosol (Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
the second se	ipedon (A2)		Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black His			Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
	Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
	Layers (A5) (LRR (()	Depleted Matrix (F3)	_ (Other (Explain in Remarks)
	ck (A9) (LRR D) Below Dark Surfac	- 10445	Redox Dark Surface (F6)		
	rk Surface (A12)	e (ATT)	Depleted Dark Surface (F7)	31	
	ucky Mineral (S1)		Redox Depressions (F8)		cators of hydrophytic vegetation and
	eyed Matrix (S4)		Vernal Pools (F9)		etland hydrology must be present,
	ayer (if present):			un	less disturbed or problematic.
	ayer (n present).				
Type:			-	1 1 1 1 1 1 1	
Depth (incl	hes):		-	Hydri	c Soil Present? Yes No
	6.2				
Wetland Hyd	rology Indicators:				
Primary Indica	rology Indicators: ators (minimum of o		check all that apply)		Secondary Indicators (2 or more required)
Wetland Hyd Primary Indica Surface V	rology Indicators: ators (minimum of o Vater (A1)		Salt Crust (B11)		Water Marks (B1) (Riverine)
Wetland Hyd Primary Indica Surface V	rology Indicators: ators (minimum of o				
Wetland Hyd Primary Indica Surface V	rology Indicators: ators (minimum of o Vater (A1) er Table (A2)		Salt Crust (B11)		Water Marks (B1) (Riverine)
Wetland Hyd Primary Indica Surface V High Wate Saturation	rology Indicators: ators (minimum of o Vater (A1) er Table (A2)	ne required; «	Salt Crust (B11) Biotic Crust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3)	ine required; o	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hyd Primary Indica Surface V High Wata Saturation Water Ma Sediment	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) Irks (B1) (Nonriver	ne required; (ine) nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Living Roots (C3)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriveri Deposits (B2) (Nor	ne required; (ine) nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C 	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)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (Non posits (B3) (Nonriver Goil Cracks (B6)	ine required; (ine) nriverine) rine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille 	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 (C8)
Vetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Non soits (B3) (Nonriver soil Cracks (B6) n Visible on Aerial I	ine required; (ine) nriverine) rine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) 	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 (C9) Shallow Aquitard (D3)
Vetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) Irks (B1) (Nonriver Deposits (B2) (Non Deposits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9)	ine required; (ine) nriverine) rine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille 	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 (C8)
Vetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Sield Observation	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (Non osits (B3) (Nonriver Goil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations:	ine) nriverine) rine) magery (B7)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	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 (C9) Shallow Aquitard (D3)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Y	ine) nriverine) rine) magery (B7) es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	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 (C9) Shallow Aquitard (D3)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Water Table P	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Y	ine) nriverine) rine) magery (B7) es No es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	Living Roots (C3) 4) ed 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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Nater Table P Saturation Pre	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Y esent? Y	ine) nriverine) rine) magery (B7) es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	Living Roots (C3) 4) ed 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 (C9) Shallow Aquitard (D3)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Vater Table P Saturation Pre includes capil	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Non osits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Yessent	ine) nriverine) rine) magery (B7) es No es No es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	Living Roots (C3) 4) ed Soils (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Vater Table P Saturation Pre includes capil	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Non osits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Yessent	ine) nriverine) rine) magery (B7) es No es No es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	Living Roots (C3) 4) ed Soils (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Vater Table P Saturation Pre includes capil	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Non osits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Yessent	ine) nriverine) rine) magery (B7) es No es No es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	Living Roots (C3) 4) ed Soils (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydi Primary Indica Surface V High Wata Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Nater Table P Saturation Pre- includes capil Describe Reco	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Non osits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial I ained Leaves (B9) ations: r Present? Yessent	ine) nriverine) rine) magery (B7) es No es No es No	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks) 	Living Roots (C3) 4) ed Soils (C6) Wetland Hyd	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) FAC-Neutral Test (D5)

roject/site: OWE OLD Salmas Rive	2	County:	Mont	ener	Sampling Date: 2-10-15
oplicant/Owner:		Sity/County.			_ Sampling Point:
vestigator(s): M. Johnson, S. Hessi				nge:	
ndform (hillslope, terrace, etc.):					
ubregion (LRR): Arid West (LRRC	<u>-)</u> Lat:				
oil Map Unit Name: <u>Aluiso</u>				NWI classi	fication: <u>FEU</u>
e climatic / hydrologic conditions on the site typical for	this time of yea	ar? Yes	No	(If no, explain in	Remarks.)
e Vegetation, Soil, or Hydrology	_ significantly	disturbed?	Are "	Normal Circumstances'	' present? Yes X No
e Vegetation, Soil, or Hydrology	_ naturally pro	blematic?	(If ne	eded, explain any answ	vers in Remarks.)
UMMARY OF FINDINGS – Attach site ma				ocations transect	s important features etc
UMMART OF FINDINGS - Attach site Ina	psnowing	samping	point it	Scations, transect	is, important reatures, etc
	No No _X No		e Sampled n a Wetlan	Area nd? Yes	No <u></u>
Remarks:					
Drought conditions					
EGETATION – Use scientific names of pla	Absolute	Dominant	Indiactor	Dominance Test wo	rkehoot:
Tree Stratum (Plot size:)		Species?		Number of Dominant That Are OBL, FACW	Species
				That Are Obl., FACIN	(h)
2				Total Number of Dom Species Across All S	
1	10.55				、
10/2/01		= Total Cov	/er	Percent of Dominant That Are OBL, FACV	
Sapling/Shrub Stratum (Plot size: 101×10)	110	V	TAC	Prevalence Index w	orkshoot:
1. Bachucis solicifolia	- 40		FAC OBL	Total % Cover of	
2. Scirpus Californica			Une	A CONTRACT OF A	x 1 =
5				the second se	x 2 =
 					x 3 =
		= Total Cov	/er	The share share the second second	x 4 =
Herb Stratum (Plot size:)					x 5 =
1					(A) (B)
i					
3		<u> </u>			ex = B/A =
4				Hydrophytic Vegeta	
5				Dominance Test	
б				Prevalence Inde	x is ≤3.0 daptations ¹ (Provide supporting
7			. 		irks or on a separate sheet)
8				Problematic Hyd	rophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		_ = Total Co	ver		soil and wetland hydrology must
1					isturbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum % Co	wer of Biotic C	_ = Total Co		Vegetation	Yes X No
% Bare Ground in Herb Stratum % CC	NOT OF DIOLIO C	iust			

Sampling Point:

也

1,4

	Remarks Pressor Pressor <td< th=""></td<>
O - 18 Le Y R 2/2 CLAY	² Location: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indice Histosol (A1)	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indic	ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
	cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) educed Vertic (F18) ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
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Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) F Stratified Layers (A5) (LRR C) Depleted Matrix (F3) C 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) ³Indic Sandy Mucky Mineral (S1) Vernal Pools (F9) we Sandy Gleyed Matrix (S4) unl Setrictive Layer (if present): Type: Hydrice Type:	ed Parent Material (TF2) ther (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present,
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Sandy Mücky Mineral (S1) Vernal Pools (F9) we Sandy Gleyed Matrix (S4) unl setrictive Layer (if present): Type: unl Type:	land hydrology must be present,
Sandy Gleyed Matrix (S4) unl estrictive Layer (if present): Type: Depth (inches):	
estrictive Layer (if present): Type: Hydric Type:	
Type:	
Depth (inches):	-
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one required; check all that apply)	Soil Present? Yes No X
DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one required; check all that apply) _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) _ Drift Deposits (B2) (Nonriverine) _ Drift Deposits (B3) (Nonriverine) _ Surface Soil Cracks (B6)	Soli Fresentry Tes No
rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	59 ·
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	
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High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	/
Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	_ Sediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	_ Drift Deposits (B3) (Riverine)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	_ Drainage Patterns (B10)
_ Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	_ Dry-Season Water Table (C2)
	_ Crayfish Burrows (C8)
	_ Saturation Visible on Aerial Imagery (C9
_ Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	_ Shallow Aquitard (D3)
	🔨 FAC-Neutral Test (D5)
eld Observations:	
inface Water Present? Yes No X Depth (inches):	
ater Table Present? Yes 🗡 No Depth (inches): _ 12	
turation Present? Yes X No Depth (inches): 4 Wetland Hydr	
ncludes capillary fringe)	blogy Present? Yes X No M
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	blogy Present? Yes 📈 No 🎽
emarks:	

			- Arid West Region	
ppicant/Owner: MRW PCR	Cit	y/County: Mon	Ferre g Sampling Date	2-10-15
pplicant/Owner: MRWPCR			State: CA: Sampling Poin	\$ 58
vestigator(s): M. Soluson, S. Hessin	Se Se	ction, Township, Rar	nge:	
andform (hillslope, terrace, etc.): Bank	Lo	ocal relief (concave, o	convex, none): <u>Nuwe</u> s	lope (%):
ubregion (LRR): Arid West (LRRC))_ Lat:		Long: Da	tum: NAD8-
oil Map Unit Name: Aluiso			NWI classification: FEL	J
re climatic / hydrologic conditions on the site typical for th	is time of year'	? Yes No	(If no, explain in Remarks.)	
re Vegetation, Soil, or Hydrology	significantly dis	sturbed? Are "	Normal Circumstances" present? Yes	× No
re Vegetation, Soil, or Hydrology	naturally proble	ematic? (If ne	eded, explain any answers in Remarks.)	
UMMARY OF FINDINGS – Attach site map	showing s	ampling point le	ocations, transects, important	features, etc.
Hydric Soil Present? Yes I Wetland Hydrology Present? Yes I		ls the Sampled within a Wetlar		
Remarks: . Irought conditions				
EGETATION – Use scientific names of plan	nts.	5		
<u>Tree Stratum</u> (Plot size:) 1)		Dominant Indicator Species? <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2			Total Number of Dominant	2 (1)
8 4			Species Across All Strata:	2 (B)
			That Are OBL, FACW, or FAC: 10	10 (A/B)
1. CAPPUE Californicue		Y OBL	Prevalence Index worksheet:	
2				tiply by:
3			OBL species x 1 = FACW species x 2 =	
ł		*	FACW species x 2 = FAC species x 3 =	
5	- 16 -	Total Cover	FACU species x 4 =	
Herb Stratum (Plot size: 5×5)			UPL species x 5 =	
1. Atripien prostvata	10	Y FACW	Column Totals: (A)	
2 3			Prevalence Index = B/A =	
4.			Hydrophytic Vegetation Indicators:	,
5			∑ Dominance Test is >50%	
6			Prevalence Index is ≤3.0 ¹	a second second second
7			Morphological Adaptations ¹ (Prov data in Remarks or on a separ	de supporting ate sheet)
8			Problematic Hydrophytic Vegetati	
Woody Vine Stratum (Plot size:) 1.		= Total Cover	¹ Indicators of hydric soil and wetland h	ydrology must
2			be present, unless disturbed or proble	matic.
	·	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum % Cov	er of Biotic Cru	ist	Vegetation Present? Yes <u>Yes</u> No	
Remarks:	. 100	4		
1			9 D	

s,

Sampling Point:

Profile Description:	(Describe to		6 COLE OF 19 4 1 18 24							
Depth	Matrix			dox Feature	s					
The second	or (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture		Remarks	i
0-18 28	R 3/2						CIAN	_		
							P			
							· · · · · · · · · · · · · · · · · · ·			
								- L		
						-	-		-	
							-			
		و بر المحص								
¹ Type: C=Concentrat						d Sand G			Pore Lining,	
Hydric Soil Indicato	rs: (Applical	ble to all L	RRs, unless oth	erwise not	ed.)		Indicator	rs for Proble	matic Hydri	c Soils ³ :
Histosol (A1)			Sandy Re	dox (S5)			1 cm	Muck (A9) (LRR C)	
Histic Epipedon (A2)		Stripped I	Matrix (S6)			2 cm	Muck (A10)	(LRR B)	
Black Histic (A3)			Loamy M	ucky Minera	l (F1)		Redu	uced Vertic (F	=18)	
Hydrogen Sulfide	the second s			eyed Matrix	(F2)		Red	Parent Mater	rial (TF2)	
Stratified Layers				Matrix (F3)			Othe	r (Explain in	Remarks)	
1 cm Muck (A9) (rk Surface (
Depleted Below [(A11)		Dark Surfac			2			
Thick Dark Surfa				pressions (I	-8)				ytic vegetatio	
Sandy Mucky Mir Sandy Gleyed Ma	a second and the second second		Vernal Po	ols (F9)					nust be prese	ent,
Restrictive Layer (if		_					unless	disturbed or	problematic.	
Tomas							111			
Туре:										
							100.000			
Depth (inches):			2				Hydric So	il Present?	Yes	Nox
Depth (inches): Remarks:				Are			Hydric So	il Present?	Yes	No <u>¥</u> _
Remarks:				5			Hydric So	il Present?	Yes	No <u>¥</u>
Remarks: IYDROLOGY			-	<u>V</u>			Hydric So	il Present?	Yes	No <u>X</u>
Remarks: IYDROLOGY Wetland Hydrology I	Indicators:		1							
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m	Indicators:		check all that ap				<u>Sec</u>	ondary Indica	itors (2 or mo	re required)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A	Indicators: inimum of one 1)			st (B11)			<u>Sec</u>	ondary Indica Water Marks	ttors (2 or mo (B1) (River i	re required)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table	Indicators: inimum of one 1)		<u>check all that ap</u> Salt Crus Biotic Cr	st (B11) ust (B12)			<u>Sec</u>	ondary Indica Water Marks Sediment De	ttors (2 or mo (B1) (River i posits (B2) (I	ne) Riverine)
Remarks: IYDROLOGY Wetland Hydrology I <u>Primary Indicators (m</u> Surface Water (A High Water Table Saturation (A3)	Indicators: inimum of one 1) (A2)	e required;	<u>check all that ap</u> Salt Crus Biotic Cr Aquatic	st (B11) ust (B12) nvertebrate:			<u>Sec</u>	ondary Indica Water Marks Sediment De Drift Deposite	ttors (2 or mo (B1) (Riveri posits (B2) (I s (B3) (River	ne) Riverine)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	Indicators: inimum of one 1) (A2) (Nonriverin	e required; -	<u>check all that ap</u> Salt Crus Biotic Cr Aquatic I Hydroge	st (B11) ust (B12) nvertebrate: n Sulfide Oc	lor (C1)		<u>Sec</u>	ondary Indica Water Marks Sediment De Drift Deposit Drainage Pa	ttors (2 or mo (B1) (River i posits (B2) (I s (B3) (River tterns (B10)	ne) Riverine) ine)
Remarks: IYDROLOGY Wetland Hydrology I <u>Primary Indicators (m</u> Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposi	Indicators: inimum of one 1) • (A2) • (Nonriverin ts (B2) (Nonr	e required; e) iverine)	<u>check all that ap</u> <u>Salt Crus</u> <u>Biotic Crus</u> <u>Aquatic I</u> <u>Hydroge</u> <u>Crusticed</u>	st (B11) ust (B12) nvertebrate: n Sulfide Oc Rhizospher	lor (C1) res along		<u>Sec</u>	ondary Indica Water Marks Sediment De Drift Deposit Drainage Pa	ttors (2 or mo (B1) (Riveri posits (B2) (I s (B3) (River	ne) Riverine) ine)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3)	Indicators: inimum of one 1) (A2) (Nonriverin ts (B2) (Nonr (Nonriverin	e required; e) iverine)	<u>check all that ap</u> <u>Salt Crus</u> <u>Biotic Cr</u> <u>Aquatic I</u> <u>Hydroge</u> <u>Crusted</u> <u>Presence</u>	et (B11) ust (B12) nvertebrates n Sulfide Oc Rhizospher e of Reduce	lor (C1) res along d Iron (C4	•)	<u>Sec</u> 	ondary Indica Water Marks Sediment De Drift Deposit Drainage Pa	ttors (2 or mo (B1) (Riveri eposits (B2) (l s (B3) (River tterns (B10) Water Table	ne) Riverine) ine)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil Crace	Indicators: inimum of one 1) (A2) (Nonriverin ts (B2) (Nonr ks (B6)	e) iverine) ie)	<u>check all that ap</u> <u>Salt Crus</u> <u>Biotic Cr</u> <u>Aquatic I</u> <u>Hydroge</u> <u>Crusted</u> <u>Presence</u>	st (B11) ust (B12) nvertebrate: n Sulfide Oc Rhizospher	lor (C1) res along d Iron (C4	•)	<u>Sec</u> 	ondary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season ¹ Crayfish Bur	ttors (2 or mo (B1) (River i posits (B2) (I s (B3) (River tterns (B10) Water Table rows (C8)	ore required) ne) Riverine) ine) (C2)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3)	Indicators: inimum of one 1) (A2) (Nonriverin ts (B2) (Nonr ks (B6)	e) iverine) ie)	<u>check all that ap</u> <u>Salt Crus</u> Biotic Cr Aquatic I Hydroge Oxidized Recent I	et (B11) ust (B12) nvertebrates n Sulfide Oc Rhizospher e of Reduce	lor (C1) res along d Iron (C4 on in Tilleo	•)	<u>Sec</u>	ondary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season ¹ Crayfish Bur	ttors (2 or mo (B1) (Riveri posits (B2) (l s (B3) (River tterns (B10) Water Table rows (C8) sible on Aeria	ne) Riverine) ine)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil Crac Inundation Visible Water-Stained Le	Indicators: inimum of one 1) (A2) (Nonriverin ts (B2) (Nonriverir ks (B6) e on Aerial Im	e) iverine) ie)	<u>check all that ap</u> <u>Salt Crus</u> <u>Biotic Cr</u> <u>Aquatic I</u> <u>Hydroge</u> <u>Cxidized</u> <u>Recent I</u> <u>Thin Mus</u>	et (B11) ust (B12) nvertebrates n Sulfide Oc Rhizospher e of Reduce ron Reductio	lor (C1) res along d Iron (C4 on in Tilleo C7)	•)	<u>Sec</u> 	ondary Indica Water Marks Sediment De Drift Deposite Drainage Pa Dry-Season Crayfish Burn Saturation Vi	ttors (2 or mo (B1) (Riveri sposits (B2) (I s (B3) (River tterns (B10) Water Table rows (C8) sible on Aeria itard (D3)	ore required) ne) Riverine) ine) (C2)
Remarks: IYDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil Crac Inundation Visible	Indicators: inimum of one 1) (A2) (Nonriverin ts (B2) (Nonriverir ks (B6) e on Aerial Im	e) iverine) ie)	<u>check all that ap</u> <u>Salt Crus</u> <u>Biotic Cr</u> <u>Aquatic I</u> <u>Hydroge</u> <u>Cxidized</u> <u>Recent I</u> <u>Thin Mus</u>	st (B11) ust (B12) nvertebrate: n Sulfide Oc Rhizospher e of Reduce ron Reduction ck Surface (f	lor (C1) res along d Iron (C4 on in Tilleo C7)	•)	<u>Sec</u> 	ondary Indica Water Marks Sediment De Drift Deposita Drainage Pa Dry-Season Crayfish Burn Saturation Vi Shallow Aqui	ttors (2 or mo (B1) (Riveri sposits (B2) (I s (B3) (River tterns (B10) Water Table rows (C8) sible on Aeria itard (D3)	ore required) ne) Riverine) ine) (C2)
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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: (UN (US Sa) inas	River) City/County: Mont	every Sampling Date: 2-10-15
*oplicant/Owner: MRWPCR		State: Sampling Point: 5
ivestigator(s): M. Jourson, S. Hessio,	Section, Township, R	
andform (hillslope, terrace, etc.):		, convex, none): Nine Slope (%): O
Subregion (LRR): Arid West /LRY	2() Lat:	Long: Datum: DATUM:DATUM:
Soil Map Unit Name: <u>Alviso</u>		NWI classification: FEG)
are climatic / hydrologic conditions on the site typic		
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology		needed, explain any answers in Remarks
		locations, transects, important features, etc.
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	X No Is the Sample No X within a Wetla No No No	
Drought Conditione		
EGETATION – Use scientific names of	of plants.	
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	
1/		Number of Dominant Species (A)
2		
3		Total Number of Dominant(B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 10/ × 10'	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. Scirpus Californica	95 Y DBL	Prevalence Index worksheet:
2	14.56	Total % Cover of: Multiply by:
3		OBL species x 1 =
4		FACW species x 2 =
5		FAC species x 3 =
Herb Stratum (Plot size:)	= Total Cover	FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		✓ Dominance Test is >50%
h,		Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (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

Sampling Point: _

	depth needed to document the indicator or c	onfirm the absence of indicators.)
Depth <u>Matrix</u> (inches) <u>Color (moist)</u> %	<u> </u>	oc ² Texture Remarks
0-18 104RZ/2		
	RM=Reduced Matrix, CS=Covered or Coated S	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	o all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
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		3
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	and the second se	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		has been and the state of the second
B 11 7 1 1 1		Hydric Soil Present? Yes No X
Depth (inches):		
Remarks:		
Remarks: YDROLOGY		
Remarks: YDROLOGY Wetland Hydrology Indicators:		
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one rec		Secondary Indicators (2 or more required)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one rec Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one rec Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reo Surface Water (A1) High Water Table (A2) Saturation (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 	
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstruction of a state) 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) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Remarks: WDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reo Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ing Roots (C3)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4)	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)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one rec 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 Livi	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)
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Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reconnected of the second	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sort 	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
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Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) ine) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
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Remarks: Primary Indicators (minimum of one reconstruction (A1) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) ine) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one red 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) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Mater Table Recorded Data (stream gauge	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) Other (Explain in Remarks) No Depth (inches): X No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one red 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) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Mater Table Recorded Data (stream gauge	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) Other (Explain in Remarks) No Depth (inches): X No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) Other (Explain in Remarks) No Depth (inches): X No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one red 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) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Mater Table Recorded Data (stream gauge	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) Other (Explain in Remarks) No Depth (inches): X No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one red 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) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Mater Table Recorded Data (stream gauge	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) Other (Explain in Remarks) No Depth (inches): X No Depth (inches):	Secondary Indicators (2 or more required) ✓ Water Marks (B1) (Riverine)

1			– Arid West Region	
project/Site: <u>GWR (OLD Salings Fise</u>) oplicant/Owner: <u>R R N PCP</u>	_) City	County: Mo	interey	Sampling Date: 2-10-15
oplicant/Owner: MRWDCR			State: CA	Sampling Point:
ivestigator(s): M. Johnson, S. Hession	a Sec	tion, Township, Ra	inge:	
andform (hillslope, terrace, etc.):			the second secon	e Slope (%): 0
ubregion (LRR): Arid West (LRRC)		and the second		
oil Map Unit Name: Alviso			NWI classifi	
re climatic / hydrologic conditions on the site typical for	this time of year?		1	
re Vegetation, Soil, or Hydrology				present? Yes X No
re Vegetation, Soil, or Hydrology			eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site ma				
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No No	Is the Sampled within a Wetla	d Area	NoX
Describer		side d	rought	
EGETATION – Use scientific names of pl	ants.		Long and the	
<u>Tree Stratum</u> (Plot size:) 1	<u>% Cover</u> S	ominant Indicator pecies? <u>Status</u>	Dominance Test wor Number of Dominant S That Are OBL, FACW,	Species a
2			Total Number of Domi Species Across All Str	
1(Plot size: <u>しょメ / み '</u>)		Total Cover	Percent of Dominant S That Are OBL, FACW,	
1. Sciepus californicus	55	X OBL	Prevalence Index wo	rksheet:
2				Multiply by:
B				x 1 =
				x 2 =
r	65	T-1-10	FAC species	x 3 = x 4 =
Herb Stratum (Plot size: 5 × 5)	<u>-67</u> =	Total Cover		x 4 x 5 =
1. Potentilly ansering sop pucific 2. Janmen carnosa	<u>a</u> <u>20</u> <u>25</u>	Y OBL	Column Totals:	(A) (B)
3			and the second se	x = B/A =
·			Hydrophytic Vegetat	
i,			Dominance Test i	
h			Prevalence Index	
· · · · · · · · · · · · · · · · · · ·			data in Remark	aptations ¹ (Provide supporting ks or on a separate sheet)
3	45 =	Total Cover	Problematic Hydro	ophytic Vegetation ¹ (Explain)
	-+		1	
1			¹ Indicators of hydric so be present, unless dis	oil and wetland hydrology must turbed or problematic.
Woody Vine Stratum (Plot size:) 1		Total Cover		

5. -

Sam	pling	Point:

ling Point:
Remarks
e Lining, M=Matrix. ic Hydric Soils ³ :
C) R B)
к в)
TF2)
iarks)
unito)
vegetation and
be present,
ematic.
N
es No 🗡
(2 or more required)
) (Riverine)
its (B2) (Riverine)
3) (Riverine)
) (Riverine) its (B2) (Riv

Hydrogen Sulfide Odor (C1)

Thin Muck Surface (C7)

Depth (inches):

Depth (inches):

Other (Explain in Remarks)

Presence of Reduced Iron (C4)

Recent Iron Reduction in Tilled Soils (C6)

X X Wetland Hydrology Present? Yes No _ Depth (inches): Saturation Present? Yes____ (includes capillary fringe)

Yes No X

No

Yes

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

Remarks:

Water Marks (B1) (Nonriverine)

____ Sediment Deposits (B2) (Nonriverine)

Inundation Visible on Aerial Imagery (B7)

Drift Deposits (B3) (Nonriverine)

Surface Soil Cracks (B6)

Water-Stained Leaves (B9)

Field Observations:

Surface Water Present?

Water Table Present?

No

___ Drainage Patterns (B10)

Crayfish Burrows (C8)

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

____ Saturation Visible on Aerial Imagery (C9)

Oxidized Rhizospheres along Living Roots (C3) ___ Dry-Season Water Table (C2)

X

WETLAND DETERMINATION DATA FORM - Arid West Region

roject/Site: <u>GWR Ber Ditch</u>	City	//County:M	unteren	Sampling Date:	-12-K
pplicant/Owner: MRWPCP			State CA	Sampling Point:	XCOL
ivestigator(s): M Johnson			~		
andform (hillslope, terrace, etc.): Flood Plan			1	Slope (%): 6
ubregion (LRR): Arid West (LRR					
oil Map Unit Name: Pache 10	<u></u>			cation:	
re climatic / hydrologic conditions on the site typic	al fas this time of year?	Vec No	1		
		Yes No		Kemarks.)	Nie
re Vegetation, Soil, or Hydrology _			Normal Circumstances"		NO
re Vegetation, Soil, or Hydrology _	naturally proble	matic? (If ne	eded, explain any answe	ers in Remarks.)	
UMMARY OF FINDINGS – Attach site	a map showing sa	ampling point lo	ocations, transects	s, important featu	ires, etc.
Hydric Soil Present? Yes	-	Is the Sampled within a Wetlan		(No	
	< No				
Remarks: Brd year of	slatt u	NOLL DIT	ouzur		
EGETATION – Use scientific names of			Deminente Testure	lahast.	
Tree Stratum (Plot size: 11/ ×10/)		Dominant Indicator	Dominance Test work Number of Dominant S		
1. Salix lasiolapis		Y FACUS	That Are OBL, FACW,		(A)
			Total Number of Domi	nant	
3			Species Across All Str	ata: _2	(B)
4			Percent of Dominant S	Species	
		Total Cover	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:			Prevalence Index wo	rksheet:	
1			Total % Cover of:		1:
3.			OBL species		
4.			FACW species		
				x 3 =	
9.	in the second second		FAC species		
		Total Cover	FAC species FACU species		
Herb Stratum (Plot size: 5'75')		1	and the second	x 4 =	
Herb Stratum (Plot size: 5'75') 1. Conium maculatium	70	Y FACIO	FACU species	x 4 = x 5 =	
Herb Stratum (Plot size: <u>5'75'</u>) 1. <u>Conium maculatium</u> 2.	70	Y FACIO	FACU species UPL species Column Totals:	x 4 = x 5 = (A)	(B)
Herb Stratum (Plot size: <u>5'75'</u>) 1. <u>Contum maculatium</u> 2 3	70	Y FACIO	FACU species UPL species Column Totals: Prevalence Inde	x 4 = x 5 = (A) x = B/A =	(B)
<u>Herb Stratum</u> (Plot size: <u>5' ү5'</u>) 1. <u>Солінт тасиlatium</u> 2 3 4		Y FACIO	FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat	x 4 = x 5 = (A) x = B/A = ion Indicators:	(B)
<u>Herb Stratum</u> (Plot size: <u>5'75'</u>) 1. <u>Солімм</u> маси атіям 2. 3 4 5		Y FACIO	FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat X Dominance Test i	x 4 = x 5 = (A) x = B/A = ion Indicators: s >50%	(B)
<u>Herb Stratum</u> (Plot size: <u>5'75'</u>) 1. <u>Солімм</u> <u>маси от ум</u> 2 3 4 5	<u> </u>	Y FACIO	FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat \bigwedge Dominance Test i Prevalence Index	x 4 = x 5 = (A) x = B/A = ion Indicators: s >50% is ≤3.0 ¹	(B)
Herb Stratum (Plot size: 5'75') 1. Conium mach of ym 2.		Y FACIO	FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat \bigwedge Dominance Test i Prevalence Index Morphological Ad data in Remark	$x 4 = $ $x 5 = $ (A) $x = B/A = $ ion Indicators: $s > 50\%$ is $\le 3.0^{1}$ aptations ¹ (Provide support of the support of	(B)
Herb Stratum (Plot size: 5'75') 1. Conium mach of them 2.		Y FACIO	FACU species UPL species Column Totals: Prevalence Inder Hydrophytic Vegetat Dominance Test i Prevalence Index Morphological Ad	$x 4 = $ $x 5 = $ (A) $x = B/A = $ ion Indicators: $s > 50\%$ is $\le 3.0^{1}$ aptations ¹ (Provide support of the support of	(B)
Herb Stratum (Plot size: 5'75') 1. Conium mach of them 2.	 	Y FACIO	FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat \bigwedge Dominance Test i Prevalence Index Morphological Ad data in Remark	$x 4 = $ $x 5 = $ (A) $x = B/A = $ ion Indicators: $s > 50\%$ is $\le 3.0^{1}$ aptations ¹ (Provide support of the support of	(B)
Herb Stratum (Plot size: 5'Y5') 1. Conium maculation 2.	 	Y FACUO Total Cover	FACU species UPL species Column Totals: Prevalence Indee Hydrophytic Vegetat \swarrow Dominance Test i Prevalence Index Morphological Adi data in Remark Problematic Hydro	$x 4 = $ $x 5 = $ (A) $x = B/A = $ ion Indicators: $s > 50\%$ is $\le 3.0^{1}$ aptations ¹ (Provide superate shophytic Vegetation ¹ (E	(B) poporting eet) xplain)
1. <u>Солінт таси атут</u> 2 3	 	Y FACUO Total Cover	FACU species UPL species Column Totals: Prevalence Indee Hydrophytic Vegetat \bigwedge Dominance Test i Prevalence Index Morphological Ad data in Remark Problematic Hydro	$x 4 = $ $x 5 = $ (A) $x = B/A = $ ion Indicators: $s > 50\%$ is $\le 3.0^{1}$ aptations ¹ (Provide superate shophytic Vegetation ¹ (E	(B) poporting eet) xplain)
Herb Stratum (Plot size: 5'75') 1. Conium machine 2. 3. 4. 5. 6. 7. 8. Woody Vine Stratum (Plot size:		Y FACUO FACUO Total Cover	FACU species UPL species Column Totals: Prevalence Inder Hydrophytic Vegetat \bigwedge Dominance Test i Prevalence Index Morphological Add data in Remark Problematic Hydro ¹ Indicators of hydric sc be present, unless dis Hydrophytic Vegetation	$x 4 = $ $x 5 = $ (A) $x = B/A = $ ion Indicators: $s > 50\%$ is $\le 3.0^{1}$ aptations ¹ (Provide superate shophytic Vegetation ¹ (E	(B) (Deporting eet) xplain) ogy must

Sampling Point: 61

D-2 IOVE3/1	<u>%</u> <u>C</u>	olor (moist) % Type ¹ Lo	c ² Texture	Remarks
E 1012011	100			MUCK
-18 Glea 14/N	100		Class	GIRU
. 6 .			Q	0
				-
e: C=Concentration D=Don		uced Matrix, CS=Covered or Coated Sa	and Croine 21	
tric Soil Indicators: (Applica				ocation: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
Histosol (A1)		_ Sandy Redox (S5)		Muck (A9) (LRR C)
Histic Epipedon (A2)		_ Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)		Loamy Mucky Mineral (F1)		uced Vertic (F18)
Hydrogen Sulfide (A4)	+	Loamy Gleyed Matrix (F2)		Parent Material (TF2)
Stratified Layers (A5) (LRR C 1 cm Muck (A9) (LRR D)	.) _	Depleted Matrix (F3) Redox Dark Surface (F6)	Othe	er (Explain in Remarks)
Depleted Below Dark Surface	e (A11)	_ Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	-	Redox Depressions (F8)	³ Indicato	rs of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	-	_ Vernal Pools (F9)	wetlan	d hydrology must be present,
Sandy Gleyed Matrix (S4)			unless	disturbed or problematic.
strictive Layer (if present): Type:				
			the date of	I Brown K K
Depth (inches): marks:			Hydric Sc	nil Present? Yes X No
Depth (inches): marks: DROLOGY			Hydric Sc	oil Present? Yes X No
Depth (inches): marks: DROLOGY tland Hydrology Indicators:		ck all that apply)	4	
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or	ne required; che	the second se	Sec	ondary Indicators (2 or more required)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1)	ne required; che	Salt Crust (B11)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or	ne required; che	Salt Crust (B11) Biotic Crust (B12)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2)		Salt Crust (B11)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3)	ne)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin	ne) iriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	g Roots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6)	ne) iriverine) ine)	 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 	<u>Sec</u> g Roots (C3)	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)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6) Inundation Visible on Aerial In	ne) iriverine) ine)	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)	g Roots (C3)	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 (C9 Shallow Aquitard (D3)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriverin Surface Soil Cracks (B6) Inundation Visible on Aerial In Water-Stained Leaves (B9)	ne) iriverine) ine)	 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 	g Roots (C3)	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 (C9
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6) Inundation Visible on Aerial In Water-Stained Leaves (B9) d Observations:	ne) iriverine) ine) nagery (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 Soil Thin Muck Surface (C7) Other (Explain in Remarks)	g Roots (C3)	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 (C9 Shallow Aquitard (D3)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6) Inundation Visible on Aerial In Water-Stained Leaves (B9) Id Observations: face Water Present? Ye	ne) iriverine) ine) nagery (B7) es <u>X</u> 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)	g Roots (C3)	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 (C9 Shallow Aquitard (D3)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6) Inundation Visible on Aerial In Water-Stained Leaves (B9) Id Observations: face Water Present? Ye ter Table Present? Ye	ne) iniverine) ine) magery (B7) es X 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)	g Roots (C3)	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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): marks: DROLOGY tland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6) Inundation Visible on Aerial In Water-Stained Leaves (B9) Id Observations: face Water Present? Ye ter Table Present? Ye uration Present? Ye sudes capillary fringe)	ne) iriverine) ine) magery (B7) es <u>X</u> No es <u>X</u> 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)	g Roots (C3) Is (C6) Wetland Hydrolo	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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: GWR RCC D	itch	_ City/Count	ty: <u>M</u> e	state: CA	Sampling Date: 2	12:15
oplicant/Owner: MRW		-	-	State: CA	Sampling Point:	a U
ivestigator(s): <u>M. Johnson</u>				nge:		
andform (hillslope, terrace, etc.): <u>}</u>				convex, none): <u>Coula</u>		1.000
ubregion (LRR): Ardwes	+ (LRRC) Lat: _		_	Long:	Datum:	NAD8
oil Map Unit Name: Pacheco				NWI classific	ation:	
re climatic / hydrologic conditions on th	he site typical for this time of	year? Yes _	No	(If no, explain in R	emarks.)	
re Vegetation, Soil, or	Hydrology significan	tly disturbed?	Are "	Normal Circumstances" p	resent? Yes	_ No
re Vegetation, Soil, or	Hydrology naturally	problematic?		eded, explain any answe		
UMMARY OF FINDINGS - A				ocations, transects	, important feat	ures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	- wit	the Sampled thin a Wetlar		No <u>_X</u>	
Remarks: Drought Could						
/EGETATION – Use scientific						
Tree Stratum (Plot size: 10/110	Absolu	te Dominar er Species	nt Indicator ? Status	Dominance Test work		
1. Saliss lasiolepis	25		FACW	Number of Dominant S That Are OBL, FACW,	or FAC:	(A)
3				Total Number of Domin Species Across All Stra	• 1	(B)
4		= Total C	Cover	Percent of Dominant Sp That Are OBL, FACW,	or FAC: 100	(A/B)
1		-		Prevalence Index wor	ksheet:	_
2				Total % Cover of:	Multiply b	oy:
3				OBL species		
4		_		FACW species		
5				FAC species		
Herb Stratum (Plot size: 51×51	C.,	= Total C	Cover	FACU species		
1. Conjum Maculation	20	<u>Y</u>	FACIO	UPL species Column Totals:		
2. Bristly Ox touque	3	- N		Drovelence Index	= B/A =	
3				Hydrophytic Vegetatio	1.1.1.1.1.	
4				Dominance Test is		
5				Prevalence Index i		
6				Morphological Ada		pporting
7				data in Remark	s or on a separate sh	neet)
8		= Total C	Cover	Problematic Hydro	phytic Vegetation ¹ (E	Explain)
Woody Vine Stratum (Plot size:)		Jover	¹ Indicators of hydric so		
2.				be present, unless dist	urbed or problematic.	· · · · · · · · · · · · · · · · · · ·
-	7D % Cover of Bioti	= Total C		Hydrophytic Vegetation	X	
% Bare Ground in Herb Stratum	% Cover of Bioti	c Crust		Present? Ye	es <u> </u>	-
Remarks:						

Sampling Point: _

Depth <u>Matrix</u> (inches) Color (moist)	<u>Redox Features</u> <u>Color (moist)</u> <u>%</u> <u>Type¹</u> Lo	nc ² Remarks
0-18 10/R.3/1 10	6	Clay
		0
	h, RM=Reduced Matrix, CS=Covered or Coated Sal to all LRRs, unless otherwise noted.)	nd Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		
Histosof (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 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 (A1		
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):		unless disturbed or problematic.
신경 가슴에 가슴에 걸 안 하지 않는 것이 없다.		
Type:		1
Donth (inchas);		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		Hydric Soil Present? Yes No
Remarks: YDROLOGY		Hydric Soil Present? Yes No
Remarks: YDROLOGY Wetland Hydrology Indicators:	quired; check all that apply)	
Remarks: YDROLOGY Netland Hydrology Indicators:		Secondary Indicators (2 or more required)
Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	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)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 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) 	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 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) rine) Oxidized Rhizospheres along Living	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)
Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re 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) rine) 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)
Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) rine) 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) s (C6) Saturation Visible on Aerial Imagery (C
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 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) rine) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil rry (B7) 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) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re 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:	 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) 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) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) rine) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil rry (B7) 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) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) K FAC-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) rine) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil rry (B7) 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) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) X FAC-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 	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 rry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): no Depth (inches): no Depth (inches): no Depth (inches): no	Secondary Indicators (2 or more required) 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) X FAC-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 	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 rry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): no Depth (inches): no Depth (inches): no Depth (inches): no	Secondary Indicators (2 or more required) 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) X FAC-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re 	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 rry (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): no Depth (inches): no Depth (inches): no Depth (inches): no	Secondary Indicators (2 or more required) 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) X FAC-Neutral Test (D5)

WETLAND	DETERMINATION	DATA	FORM - Aric	West Region

roject/Site: GINR Rec Difeh	C		nteres Sampling Date: 2-12-15
oplicant/Owner:			State Sampling Point: 03
			nge:
			convex, none): <u>CONCANE</u> Slope (%): <u>1</u>
ibregion (LRR): Avid West (LRK	<u>()</u> Lat:		_ Long: Datum: NAD 8
il Map Unit Name: Recherco			NWI classification:
e climatic / hydrologic conditions on the site typical	I for this time of yea	ar? Yes No	(If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology	significantly of	disturbed? Are "	Normal Circumstances" present? Yes 📈 No
e Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site	map snowing	sampling point ic	ocations, transects, important features, etc.
	X No No No	Is the Sampled within a Wetlan	N
Drought conditions			
4			
EGETATION – Use scientific names of	f plants.		
Jul c Lul	Absolute		Dominance Test worksheet:
ree Stratum (Plot size: 10'+(10')		Species? Status	Number of Dominant Species
Salix lasiolepis	70	Y FACIN	That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant
	<u> </u>		Species Across All Strata: (B)
	70	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
· · · · · · · · · · · · · · · · · · ·			Prevalence Index worksheet:
			Total % Cover of:Multiply by:
			OBL species x 1 =
			FACW species x 2 =
			FAC species x 3 =
21361		= Total Cover	FACU species x 4 =
erb Stratum (Plot size: <u>5'1(5'</u>)	10	e1	UPL species x 5 =
Vinca		<u>_N</u>	Column Totals: (A) (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			✗ Dominance Test is >50%
			Prevalence Index is $\leq 3.0^1$
			Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
Voody Vine Stratum (Plot size:)		Constant of Building	Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			se present, annes attacted at presidents
1 2		= Total Cover	Hydrophytic Vegetation Present? Yes X No

Sampling Point:

Depth Matrix Redox Features (inches) Color (moist) % Type ¹	
.1 051.21	Loc ² Texture Remarks
0-18 2.5/3/1	Clay
	0
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coate	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
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)	³ 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):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
YDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Soils (C6) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along I Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes	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) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	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) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No

WE	TLAND DETE	ERMINAT	ION DATA FORM	- Arid West Regio	on
Project/Site: <u>GWR Ree Dife</u>	ih DCDX		City/County:	ontere y	_ Sampling Date: <u>2-12-15</u> _ Sampling Point: <u></u>
ivestigator(s): M. Johnson					_ Sampling Point:
	1				
andform (hillslope, terrace, etc.): <u>Flu</u>	-11001	1.	Local relief (concave,	convex, none): <u>CO</u>	Slope (%):
ubregion (LRR): Arid WPS-	- LLXKL	→ ^{Lat:}			
ioil Map Unit Name: <u>Pacheco</u>					ification:
are climatic / hydrologic conditions on the					A
re Vegetation, Soil, or H	lydrology	significantly	disturbed? Are "	Normal Circumstances	" present? Yes // No
Are Vegetation, Soil, or H	lydrology	naturally pro	oblematic? (If ne	eded, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Att	tach site map	showing	sampling point l	ocations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X	No No No	Is the Sampled within a Wetlar	Area	< No
Remarks:	res				
Drought- condition					
/EGETATION – Use scientific	names of pla	and the second			
Tree Stratum (Plot size: 10/¥10/)		Dominant Indicator Species? Status	Dominance Test wo	
1. S. lasibleois			y - FACIN	Number of Dominant That Are OBL, FACV	
2					
3				Total Number of Don Species Across All S	And a second s
4					
Sapling/Shrub Stratum (Plot size:)	70	_ = Total Cover	Percent of Dominant That Are OBL, FACV	
1				Prevalence Index w	
2				Contraction of the second states and	f: Multiply by:
3		_			x 1 =
4			· · · · · · · · · · · · · · · · · · ·	and the second	x 2 =
5					x 3 =
Herb Stratum (Plot size: $5'\chi 5'$)	(_ = Total Cover		x 4 =
1. 1/in/4 27		15	W NL		x 5 = (B)
2					(A) (B)
3				Prevalence Ind	ex = B/A =
4				Hydrophytic Vegeta	
5				Z Dominance Test	is >50%
6				Prevalence Inde	
7				Morphological Ad	daptations ¹ (Provide supporting
8					rks or on a separate sheet)
Woody Vine Stratum (Plot size: 1			_ = Total Cover	¹ Indicators of hydric s	rophytic Vegetation ¹ (Explain) soil and wetland hydrology must sturbed or problematic.
2% Bare Ground in Herb Stratum			_ = Total Cover	Hydrophytic Vegetation Present?	/es <u>X</u> No

% Bare Ground in Herb Stratum Remarks:

Sampling Point:

Depth	Matrix	0/	Onland (marine) 0/ T	10-4	Taxture	Pomorka
	olor (moist)		Color (moist) % Type		Texture	Remarks
2-18 2.5	Y4/1	100			act	
1					0	
			· · · · · · · · · · · · · · · · · · ·			
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2		
					21	
			Reduced Matrix, CS=Covered or Co	bated Sand Grain		ation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
	tors: (Applic	able to all L	RRs, unless otherwise noted.)			영상 방송
_ Histosol (A1)	(0.0)		Sandy Redox (S5)			uck (A9) (LRR C) uck (A10) (LRR B)
_ Histic Epipedo			Stripped Matrix (S6) Loamy Mucky Mineral (F1)		the second se	d Vertic (F18)
Black Histic (A			Loamy Gleyed Matrix (F2)			rent Material (TF2)
_ Hydrogen Sulfi		-)	Depleted Matrix (F3)			Explain in Remarks)
_ Stratified Laye _ 1 cm Muck (A9		•)	Redox Dark Surface (F6)		Outer (I	
_ Depleted Below	and the second se	e (A11)	Depleted Dark Surface (F7)			ž –
_ Thick Dark Su			Redox Depressions (F8)		³ Indicators of	of hydrophytic vegetation and
Sandy Mucky I			Vernal Pools (F9)			ydrology must be present,
_ Sandy Gleyed				1 C		sturbed of problematic.
estrictive Layer				the state	-1-	14
Type:					12	
Depth (inches):					Hydric Soil I	Present? Yes <u>No</u> <u>No</u>
Depth (inches):					Hydric Soil I	Man .
Depth (inches): Remarks: YDROLOGY					Hydric Soil I	Man .
Depth (inches): Remarks: YDROLOGY						Mana Manaza
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog	gy Indicators:		check all that apply)		Second	dary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog	gy Indicators: (minimum of c		<u>check all that apply)</u> Salt Crust (B11)		<u>Second</u> W	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators	gy Indicators: (minimum of c · (A1)				<u>Second</u> W	dary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water	gy Indicators: (minimum of c (A1) able (A2)		Salt Crust (B11)		<u>Second</u> W Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta	gy Indicators: (minimum of c (A1) uble (A2)	ne required;	Salt Crust (B11) Biotic Crust (B12)	3)	<u>Second</u> W Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3	gy Indicators: (minimum of c (A1) able (A2) () B1) (Nonriver	ne required; ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13	3) 1)	<u>Second</u> W Se Dr Dr	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
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Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	gy Indicators: (minimum of c (A1) able (A2) b) B1) (Nonriver posits (B2) (No (B3) (Nonrive	ine) nriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres alo 	3) 1) ong Living Roots (C4)	<u>Second</u> W Se Dr Dr (C3) Dr Cr	dary 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)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	gy Indicators: (minimum of c (A1) able (A2) b) B1) (Nonriver osits (B2) (No (B3) (Nonrive cracks (B6)	ine) nriverine) rine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T 	3) 1) ong Living Roots (C4)	<u>Second</u> W Se Dr Dr (C3) Dr Cr Sa	dary 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)
Depth (inches): temarks: YDROLOGY Yetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Surface Soil C	gy Indicators: (minimum of c (A1) able (A2) (B1) (Nonriver posits (B2) (No (B3) (Nonrive cracks (B6) ible on Aerial	ine) nriverine) rine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T 	3) 1) ong Living Roots (C4) Filled Soils (C6)	<u>Second</u> W Se Dr Dr (C3) Dr (C3) Cr Sa St	dary 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 (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Surface Soil C Inundation Vis X Water-Stained	gy Indicators: (minimum of c (A1) able (A2)) B1) (Nonriver posits (B2) (No (B3) (Nonrive cracks (B6) able on Aerial Leaves (B9)	ine) nriverine) rine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) 	3) 1) ong Living Roots (C4) Filled Soils (C6)	<u>Second</u> W Se Dr Dr (C3) Dr (C3) Cr Sa St	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) eturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
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Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Surface Soil C Inundation Vis X Water-Stained Field Observation Surface Water Present includes capillary Describe Recorded	gy Indicators: (minimum of c (A1) able (A2) b) B1) (Nonriver posits (B2) (No (B3) (Nonrive cracks (B6) bible on Aerial Leaves (B9) is: esent? Y ent? Y fringe)	ine) nriverine) rine) lmagery (B7) les N les N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Other (Explain in Remarks Depth (inches): Depth (inches): Depth (inches):	3) 1) ong Living Roots (C4) Filled Soils (C6) 5) Wetland	<u>Second</u> W Se Dr (C3) Dr (C3) Cr St St F/	dary Indicators (2 or more required) dater 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 (C9) nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Surface Soil C Inundation Vis X Water-Stained Field Observation Surface Water Present includes capillary Describe Recorded	gy Indicators: (minimum of c (A1) able (A2) b) B1) (Nonriver posits (B2) (No (B3) (Nonrive cracks (B6) bible on Aerial Leaves (B9) is: esent? Y ent? Y fringe)	ine) nriverine) rine) lmagery (B7) les N les N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Other (Explain in Remarks Depth (inches): Depth (inches): Depth (inches):	3) 1) ong Living Roots (C4) Filled Soils (C6) 5) Wetland	<u>Second</u> W Se Dr (C3) Dr (C3) Cr St St F/	dary Indicators (2 or more required) dater 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 (C9) nallow Aquitard (D3) AC-Neutral Test (D5)

WETLAND DET	ERMINATIO	N DATA FORM	- Arid West Region		
Project/Site: <u>GWR (Jeubladens 5</u>	losale) o	ity/County: Castro	ville, MAY	Sampling Date: 2	-12-15
Applicant/Owner: MRWPCP	0 /		State: CA	Sampling Point:	5115
vestigator(s): _M.Johnson	S		nge:	And And States and And	
andform (hillslope terrace etc.): Bank	1	anal relief (concerve	annon nana) (Ara.1	P.I Class	%). 7
Subregion (LRR): <u>Arrid</u> Ulest (LLRK	Lat:		Long:	Datum:	NADS
ioil Map Unit Name: Clear Lake			NWI classific	Datum.	AUNO
re climatic / hydrologic conditions on the site typical for	this time of year				
				15	12
re Vegetation, Soil, or Hydrology				1	NO
Are Vegetation, Soil, or Hydrology			eded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma	ap showing s	ampling point le	ocations, transects	, important featu	ires, etc.
Hydric Soil Present? Yes 7	No No No	Is the Sampled within a Wetlar		Not	
Remarks: Draight					
EGETATION – Use scientific names of pla	ants.				
<u>Tree Stratum</u> (Plot size:) 1)	% Cover	Dominant Indicator Species? Status	Dominance Test work Number of Dominant S That Are OBL, FACW,	pecies /	(A)
2			Total Number of Domin	ant I	
3			Species Across All Stra		(B)
1		Total Cover	Percent of Dominant Sp That Are OBL, FACW,		(A/B)
1			Prevalence Index wor	ksheet:	_
2			Total % Cover of:	Multiply by	
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5			FAC species	x 3 =	
Herb Stratum (Plot size: 5'X 5')		Total Cover	FACU species	x 4 =	
1. Polucionum amphilium V. Com	alsing 85	Y DR		x 5 =	
2. Uctile dipce	10	AL IA	Column Totals:	(A)	(B)
3. Copinm Maculature	- 5	A) FALL	Prevalence Index	= B/A =	
4		in wer	Hydrophytic Vegetatio	THE REPORT OF A DESCRIPTION OF	
5			Dominance Test is		
5			Prevalence Index is		
7			Morphological Ada data in Remarks	otations ¹ (Provide sup s or on a separate she	porting et)
Woody Vine Stratum (Plot size:)	100 =	Total Cover	Problematic Hydro	ohytic Vegetation ¹ (Ex	plain)
1 2			¹ Indicators of hydric soi be present, unless distu		jy must

= Total Cover

% Cover of Biotic Crust

% Bare Ground in Herb Stratum Remarks: 0

No

Hydrophytic Vegetation Present?

Yes X

Com	nlina	Point:	
Salli	pilliq	FOIL.	

	ion: (Describe to	the depth ne	eded to docur	nent the i	ndicator	or confir	m the absence of	of indicators.)		
Depth	Matrix			x Features	s					
	Color (moist)	<u>%</u> _C	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-18 7.	573/1 1	00					Clay			
				-	_					
						d Canad (21.00	ation: PL=Pore Lining, M=Matrix.		
	entration, D=Deplet cators: (Applicab					d Sand C		for Problematic Hydric Soils ³ :		
Histosol (A1)			Sandy Red					uck (A9) (LRR C)		
	Contraction of the second s	10.103	Stripped M				2 cm Muck (A10) (LRR B)			
Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1)							Reduced Vertic (F18)			
Evany mosty minor (17)							Red Parent Material (TF2)			
	yers (A5) (LRR C)		_ Depleted M				Other (Explain in Remarks)			
	A9) (LRR D)		Redox Dar	« Surface	(F6)					
	low Dark Surface (A11)	Depleted D	ark Surfac	e (F7)					
and the second se	Surface (A12)		Redox Dep	ressions (F8)		³ Indicators of hydrophytic vegetation and			
Sandy Mucky Mineral (S1) Vernal Pools (F9)						wetland hydrology must be present,				
	ed Matrix (S4)						unless di	sturbed or problematic.		
Restrictive Laye	er (if present):									
Туре:							1	~/		
Depth (inches	s):						Hydric Soil Present? Yes No			
Remarks:										
YDROLOGY										
TUROLOGI										
Notland Hydrol	27 C C C C C C C C C C C C C C C C C C C	required: che	eck all that app	Iv)			Secon	dary Indicators (2 or more required)		
	ie (minimum er ene	required, en	Salt Crus				V	/ater Marks (B1) (Riverine)		
Primary Indicator	ter (A1)		Biotic Cru					ediment Deposits (B2) (Riverine)		
Primary Indicator				or (DIE)						
Primary Indicator Surface Wat High Water	Table (A2)		the second se	vertehrate	Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)					
Primary Indicator Surface Wat High Water Saturation (/	Table (A2) A3)	a)	Aquatic Ir				X	rift Deposits (B3) (Riverine) rainage Patterns (B10)		
Primary Indicator Surface Wat High Water Saturation (/ Water Marks	Table (A2) A3) s (B1) (Nonriverine		Aquatic Ir	Sulfide O	dor (C1)	Living P	ZD	rainage Patterns (B10)		
Primary Indicator Surface Wat High Water Saturation (/ Water Marks Sediment Do	Table (A2) A3) s (B1) (Nonrivering eposits (B2) (Nonr	iverine)	Aquatic Ir Hydrogen Oxidized	Sulfide O Rhizosphe	dor (C1) eres along		∑ D oots (C3) D	rainage Patterns (B10) ry-Season Water Table (C2)		
Primary Indicator Surface Water High Water Saturation (/ Water Marks Sediment Do Drift Deposit	Table (A2) A3) s (B1) (Nonriverine eposits (B2) (Nonr ts (B3) (Nonriverin	iverine)	Aquatic Ir Hydroger Oxidized Presence	Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C	4)	oots (C3) D	rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)		
Primary Indicator Surface Wat High Water Saturation (/ Water Marks Sediment Do Drift Deposit Surface Soil	Table (A2) A3) s (B1) (Nonrivering eposits (B2) (Nonri ts (B3) (Nonriverin l Cracks (B6)	iverine) 1e)	Aquatic Ir Hydroger Oxidized Presence Recent Ir	Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C ion in Tille	4)	oots (C3) D C C6) S	rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9		
High Water Saturation (/ Water Marks Sediment Do Drift Deposit Surface Soil Inundation V	Table (A2) A3) s (B1) (Nonriverine eposits (B2) (Nonr ts (B3) (Nonriverin	iverine) 1e)	Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	oots (C3) D C C6) S	rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)		

Depth (inches):

Depth (inches):

___ Depth (inches):

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

10

Wetland Hydrology Present? Yes

Surface Water Present?

Water Table Present?

Saturation Present?

Remarks:

Yes _____

Yes X No

Yes

No

No

No

			- Arid West Region
oject/Site: GWR (T. Slowyh)		City/County: Ocet	State: CA Sampling Date: 2-2-15
plicant/Owner:			State: CA Sampling Point: 10/00
estigator(s): M. Johnson			
ndform (hillslope, terrace, etc.): oregion (LRR):CR_(1.0	Local feller (concave, o	convex, none): Slope (%):
I Map Unit Name: <u>Clear Lake</u>			NWI classification:
e climatic / hydrologic conditions on the site typical for the			
			Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology	naturally pro	blematic? (If ne	eded, explain any answers in Remarks.) [/]
IMMARY OF FINDINGS – Attach site map	showing	sampling point le	ocations, transects, important features, etc.
ydrophytic Vegetation Present? Yes	No		enter a second
ydric Soil Present? Yes		Is the Sampled	Area
/etland Hydrology Present? Yes		within a Wetlar	nd? Yes No
emarks:			/
EGETATION – Use scientific names of pla	Contraction and the second	Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size:)		Species? Status	Number of Deminent Creation
			That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant
			Species Across All Strata: (B)
			Percent of Dominant Species
apling/Shrub Stratum (Plot size:)	·	= Total Cover	That Are OBL, FACW, or FAC: <u>///</u> (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species x 1 =
			FACW species x 2 =
			FAC species x 3 =
erb Stratum (Plot size: 51×51)		= Total Cover	FACU species x 4 =
(Intice diala	5	IN FAC	UPL species x 5 =
Coninn Maculatum	40	Y IAM	Column Totals: (A) (B)
Ruhus Ursinks	30	FAL	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			∠ Dominance Test is >50%
			Prevalence Index is ≤3.0 ¹
			Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
	75	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Voody Vine Stratum (Plot size:)		1	1
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic
Bare Ground in Herb Stratum5% Cov			Vegetation

Donth						irm the absence of in	dicators.
Depth	Matrix Color (moint)	%		x Features	Type ¹ Loc ²	- Tautura	Remarks
(inches)	Color (moist)		Color (moist)		Type ¹ Loc ²	Texture	Remarks
08	10VR 3/3	100		·		- Sanay Ching	
		1222				0 (A
		5 m			2005		
-		<u> </u>				÷ • • • • • •	
	1			·			
-							
	• •	·	*	,			
	-						
Type: C=C	Concentration, D=Dep	pletion, RM	=Reduced Matrix, C	S=Covered	or Coated Sand	Grains. ² Location	: PL=Pore Lining M=Matrix.
Hydric Soil	Indicators: (Applic	cable to all	LRRs, unless othe	rwise noted	1.)	Indicators for P	roblematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)							
Histoso	ol (A1)		Sandy Red	ox (S5)		1 cm Muck	(A9) (LRR C)
	ol (A1) Epipedon (A2)		Sandy Red Stripped Ma				(A9) (LRR C) (A10) (LRR B)
Histic E				atrix (S6)	F1)		(A10) (LRR B)
Histic E Black H	pipedon (A2)		Stripped Ma	atrix (S6) ky Mineral (2 cm Muck (Reduced Ve	(A10) (LRR B)
Histic E Black H Hydrog	Epipedon (A2) Histic (A3)	C)	Stripped Ma Loamy Muc	atrix (S6) ky Mineral (ved Matrix (I		2 cm Muck (Reduced Ve Red Parent	(A10) (LRR B) ertic (F18)
Histic E Black H Hydrog Stratifie	Epipedon (A2) listic (A3) en Sulfide (A4)	C)	Stripped Ma Loamy Muc Loamy Gle	atrix (S6) ky Mineral (ved Matrix (I atrix (F3)	=2)	2 cm Muck (Reduced Ve Red Parent	(A10) (LRR B) ertic (F18) Material (TF2)
Histic E Black H Hydrog Stratifie 1 cm M	pipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) (LRR		Stripped Ma Loamy Muc Loamy Gle Depleted M	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) & Surface (F	=2) 6)	2 cm Muck (Reduced Ve Red Parent	(A10) (LRR B) ertic (F18) Material (TF2)
Histic E Black H Hydrog Stratifie 1 cm M Deplete	Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR luck (A9) (LRR D)		Stripped Ma Loamy Muc Loamy Gle Depleted M Redox Dark	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) c Surface (F ark Surface	=2) 6) (F7)	2 cm Muck (Reduced Ve Red Parent Other (Expla	(A10) (LRR B) ertic (F18) Material (TF2)
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D	Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR luck (A9) (LRR D) ed Below Dark Surfac		Stripped Ma Loamy Muc Loamy Gle Depleted M Redox Dark Depleted D	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) & Surface (F ark Surface ressions (F8	=2) 6) (F7)	2 cm Muck (Reduced Ve Red Parent Other (Expla ³ Indicators of hy	(A10) (LRR B) ertic (F18) Material (TF2) ain in Remarks)
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy	Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR luck (A9) (LRR D) ed Below Dark Surface Dark Surface (A12)		Loamy Muc Loamy Muc Depleted M Redox Darl Depleted D Redox Dep	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) & Surface (F ark Surface ressions (F8	=2) 6) (F7)	2 cm Muck (Reduced Ve Red Parent Other (Expla ³ Indicators of hy wetland hydro	(A10) (LRR B) ertic (F18) Material (TF2) ain in Remarks) drophytic vegetation and
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy Sandy	Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR luck (A9) (LRR D) ed Below Dark Surfac bark Surface (A12) Mucky Mineral (S1)		Loamy Muc Loamy Muc Depleted M Redox Darl Depleted D Redox Dep	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) & Surface (F ark Surface ressions (F8	=2) 6) (F7)	2 cm Muck (Reduced Ve Red Parent Other (Expla ³ Indicators of hy wetland hydro	(A10) (LRR B) ertic (F18) Material (TF2) ain in Remarks) drophytic vegetation and logy must be present,
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy Sandy	Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR Juck (A9) (LRR D) ed Below Dark Surface Oark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Loamy Muc Loamy Muc Depleted M Redox Darl Depleted D Redox Dep	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) & Surface (F ark Surface ressions (F8	=2) 6) (F7)	2 cm Muck (Reduced Ve Red Parent Other (Expla ³ Indicators of hy wetland hydro	(A10) (LRR B) ertic (F18) Material (TF2) ain in Remarks) drophytic vegetation and logy must be present,
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy Sandy Restrictive	Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR Juck (A9) (LRR D) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):		Loamy Muc Loamy Muc Depleted M Redox Darl Depleted D Redox Dep	atrix (S6) ky Mineral (yed Matrix (I atrix (F3) & Surface (F ark Surface ressions (F8	=2) 6) (F7)	2 cm Muck (Reduced Ve Red Parent Other (Expla ³ Indicators of hy wetland hydro	(A10) (LRR B) ertic (F18) Material (TF2) ain in Remarks) drophytic vegetation and logy must be present, ed or problematic.

HYDROLOGY

Wetland Hydrology Indica	tors:	1					
Primary Indicators (minimun	n of one requ	ired; chec	k all that apply)		Secondary Indicators (2 or more required)		
Surface Water (A1)		_	Salt Crust (B11)		Water Marks (B1) (Riverine)		
High Water Table (A2)		_	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)		
Saturation (A3)			_ Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Non	riverine)	_	Hydrogen Sulfide Odor (C1)		 Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) 		
Sediment Deposits (B2)) (Nonriverin	ie) _	Oxidized Rhizospheres along I	Living Roots (C3)			
Drift Deposits (B3) (Nor	nriverine)	_	Presence of Reduced Iron (C4)			
Surface Soil Cracks (B6	5)	. La 16 <u>4</u>	_ Recent Iron Reduction in Tillec	d Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7)			_ Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Water-Stained Leaves ((B9)		Other (Explain in Remarks)		FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	_ No 🗡	Depth (inches):				
Water Table Present?	Yes	_ No	Depth (inches):	<u>-</u>	No.		
Saturation Present? (includes capillary fringe)	Yes	_ No 🗡	Depth (inches):	_ Wetland Hy	drology Present? Yes No		
Describe Recorded Data (st	ream gauge,	monitorin	g well, aerial photos, previous ins	pections), if availa	ible:		
Remarks:							

oplicatio owner.		Strouille, MTV Sampling Date: 2-12-16 State: CDX Sampling Point: JFC
vestigator(s): M. John Son		
		ave, convex, none): <u>NUME</u> Slope (%): <u>O</u>
		Long: Datum:
oil Map Unit Name:		NWI classification:
re climatic / hydrologic conditions on the site typical for		
re Vegetation, Soil, or Hydrology		Are Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology	_ naturally problematic? ((If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site ma	p showing sampling point	nt locations, transects, important features, et
Hydrophytic Vegetation Present? Yes Yes Yes	No Is the Sam	pled Area etland? Yes No
Wetland Hydrology Present? Yes X	No	
Bud ISPAN A	state wiche	diminist
man open op	Jewi C Willie	and for
		U
EGETATION – Use scientific names of pla	ants.	
Tree Stratum (Plot size: 10'x10')	Absolute Dominant Indica <u>% Cover Species? Statu</u>	IC.
1. S. lasialepis		
2		·
3		Total Number of Dominant / Species Across All Strata:(B)
1		·····
	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)		
l 2		Prevalence Index worksheet: Total % Cover of:Multiply by:
3		OBL species x 1 =
ki		FACW species x 2 =
5		FAC species x 3 =
and the second	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		UPL species x 5 =
		— Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
 5		Prevalence Index is $\leq 3.0^1$
*		Morphological Adaptations ¹ (Provide supporting
·		data in Remarks or on a separate sheet)
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Noody Vine Stratum (Plot size:)		the state of the second second
Noody Vine Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Noody Vine Stratum (Plot size:) .) 2.		

.

Sampling Point: 67

OIL			and the second second								
Profile Des	cription: (Describe to	the depth need	led to docum	nent the indic	cator or co	nfirm the a	bsence of	f indicators.)			
Depth	Matrix			Features	1 .	2 -	1.02	Devicedor			
(inches)	<u>Color (moist)</u>		or (moist)	<u>_%</u>	vpe ¹ Lo		<u>kture</u>	Remarks			
0-18	10/R-3/1	00				<u>C19</u>	4				
			_								
-											
_						-					
				<u>ے آت ا</u>							
T	Concentration, D=Deplet	ion DM=Doduo	od Matrix CS	-Covorod or	Controd Sou	nd Grains	21 000	tion: PL=Pore Lining, M=Matrix.			
	Indicators: (Applicat							or Problematic Hydric Soils ³ :			
Histoso		ie to un Errito,	Sandy Redo					ick (A9) (LRR C)			
	pipedon (A2)		Stripped Ma	1 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1		-		ick (A10) (LRR B)			
	listic (A3)			ky Mineral (F	1)			d Vertic (F18)			
	en Sulfide (A4)			ed Matrix (F2		-		ent Material (TF2)			
	d Layers (A5) (LRR C)		Depleted Ma			1.1	Other (E	xplain in Remarks)			
	luck (A9) (LRR D)		Redox Dark	Surface (F6)							
_ Deplete	ed Below Dark Surface	A11)	Depleted Da	ark Surface (F	7)						
			Redox Depr	essions (F8)		³ In	dicators o	f hydrophytic vegetation and			
	Dark Surface (A12)		Sandy Mucky Mineral (S1) Vernal Pools (F9)					wetland hydrology must be present,			
Sandy I	Mucky Mineral (S1)	1.1					a second second second				
Sandy I Sandy (Mucky Mineral (S1) Gleyed Matrix (S4)	Ξ					a second second second	ydrology must be present, turbed or problematic.			
Sandy I Sandy (Restrictive	Mucky Mineral (S1)	=			-		a second second second				
Sandy I Sandy (Restrictive Type:	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
Sandy I Sandy (Restrictive Type:	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis				
Sandy I Sandy (Restrictive Type:	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
Sandy I Sandy (Restrictive Type: Depth (ir	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
Sandy I Sandy (Restrictive Type: Depth (ir	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
Sandy I Sandy (Restrictive Type: Depth (ir	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
Sandy I Sandy (Restrictive Type: Depth (ir Remarks:	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
Sandy I Sandy (Restrictive Type: Depth (ir Remarks:	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.			
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Sandy I Sandy (Restrictive Type: Depth (ir Remarks: YDROLO Wetland Hy Primary Ind	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): nches): DGY ydrology Indicators: licators (minimum of one		Vernal Pool	s (F9)			unless dis Iric Soil P	turbed or problematic. Present? Yes <u>No </u>			
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Sandy I Sandy (Restrictive Type: Depth (ir Remarks: YDROLC Wetland Hy Primary Ind Surface High W	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): mches): DGY ydrology Indicators: licators (minimum of one e Water (A1) /ater Table (A2)		k all that appl Salt Crust Biotic Crust	y) (B11) st (B12)	313)		Iric Soil F	turbed or problematic. Present? Yes No lary Indicators (2 or more required) ater Marks (B1) (Riverine)			
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Sandy I Sandy I Restrictive Type: Depth (ir Remarks: YDROLO Wetland Hy Primary Ind Saturat High W Saturat Water I Sedime	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): mches): DGY ydrology Indicators: licators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverin ent Deposits (B2) (Nonriverin	e required; chec 	k all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F	s (F9) (B11) st (B12) vertebrates (E Sulfide Odor	(C1) along Livin	Hyd	Iric Soil P Second Second Second Second Dri Dri Dri Dri Dri	turbed or problematic. Present? Yes No lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)			
Sandy I Sandy I Restrictive Type: Depth (ir Remarks: YDROLC Wetland Hy Primary Ind Saturat High W Saturat Water I Sedime Drift De	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): Inches): DGY ydrology Indicators: licators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverin	e required; chec 	k all that appl Salt Crust Biotic Crust Aquatic Im Hydrogen Oxidized F Presence	y) (B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres	(C1) along Livin on (C4)	g Roots (C3	Iric Soil F Second Second Second Se Dri Dri Dri Cri Cri	turbed or problematic.			
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Sandy I Sandy I Sandy I Restrictive Type: Depth (ir Remarks: YDROLC YDROLC Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda	Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): Inches): DGY ydrology Indicators: licators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverin ent Deposits (B2) (Nonriverin e Soil Cracks (B6) tion Visible on Aerial Im	e required; chec 	k all that apply Salt Crust Biotic Crus Aquatic Im Hydrogen Oxidized F Presence Recent Iro Thin Muck	s (F9) (B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced In n Reduction i	(C1) along Livin on (C4) n Tilled Soi	g Roots (C3	Iric Soil F Second Second Second Se Dri Dri Dri Se Dri Se Dri Se Se Second Seco	turbed or problematic.			
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAN	ID DETERMINATIO	ON DATA FORM	VI – Arid West Region
Project/Site: GWR (T.Slove	ule)	City/County MA	Mteren Sampling Date: 2-12-14
pplicant/Owner: MRWR(AC		ncy/county. <u></u>	State:Sampling Date:S
vestigator(s): M. Johnson		Pastian Taunahin I	
andform (hillslope, terrace, etc.):	DODIAL A	Local relief (concave	e, convex, none): <u>NOVe</u> Slope (%):
ubregion (LRR): MA West (LR	Lat:		Long: Datum: AIA D
oil Map Unit Name:ACMELO			NWI classification:
e climatic / hydrologic conditions on the site ty	pical for this time of yea	Ir? Yes No) (If no, explain in Remarks.)
e Vegetation, Soil, or Hydrolog	gy significantly d	listurbed? Ar	re "Normal Circumstances" present? Yes 📈 No
e Vegetation, Soil, or Hydrolog	gy naturally prot		needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach s	site map showing	sampling point	t locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No No	ls the Sampl within a Wet	led Area
Remarks:	/		1
Drought condition	NG		
the free courses			
EGETATION – Use scientific name	s of plants.		
ree Stratum (Plot size:)		Dominant Indicato	
and the second		Species? Status	- Number of Dominant Species
			That Are OBL, FACW, or FAC: (A)
* ====================================			Total Number of Dominant
			_ Species Across All Strata: (B)
i la companya da companya d	,	= Total Cover	Percent of Dominant Species
apling/Shrub Stratum (Plot size: 0 ×10)		That Are OBL, FACW, or FAC:O (A/B)
3. salutolia		Y FAC	Prevalence Index worksheet:
Sachifornicus	15	N OBL	Total % Cover of:Multiply by:
			_ OBL species x 1 =
			FACW species x 2 =
	(h	S. Marcola Commence	FAC species x 3 =
erb Stratum (Plot size: 5 VO)	50	= Total Cover	FACU species x 4 =
	50	= Total Cover	FACU species x 4 = UPL species x 5 =
J. CHINOSON	90	= Total Cover	FACU species x 4 =
J. Chinosa	90	Y GRL	FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
J. Chinosa	90	Y GRL	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A =
J. Chinosa	90	Y GRL	FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
D. Chinosol	90	Y GRL	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
D. Chinosol	90	<u>4</u> 682	FACU species $x 4 =$ UPL species $x 5 =$ Column Totals: (A) Prevalence Index $B/A =$ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (Provide supporting
<u> </u>	90	<u>4</u> 682	FACU species $x 4 =$ UPL species $x 5 =$ Column Totals: (A) Prevalence Index $BA =$ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
<u> </u>	90	<u>4</u> 682	FACU species $x 4 =$ UPL species $x 5 =$ Column Totals: (A) Prevalence Index $B/A =$ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (Provide supporting
	<u> 90 </u>	<u> </u>	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
	90 	<u> </u>	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = $B/A =$ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	90 	<u> </u>	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 5 × 6) . .	90 	Total Cover	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = $B/A =$ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must

	1.0
Sampling Point:	US

F

Generation Statute Remarks 2-//2 Loc//2 Texture Remarks 2-//2 Loc//2	Depth	Matrix			x Features							
Ype: C_0rest 25 Y2 \$\frac{4}{6}\$ ZD C_0rest C_0rest Ype: 'Type: C_0rest C_0rest Yes Control of the second of		Color (moist)		Color (moist)		Type ¹	Loc ²			17		1
Type: C C Type: C C Type: C C Type: Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histic Eppedon (A2) Standy Redox (S5) 2 on Muck (A10) (LRR D) Black Histic (A3) Loamy Gueyd Matrix (F3) Reduced Vertic (F16) Hydrogen Stuffae (A4) Loamy Gueyd Matrix (F3) Other (Explain in Remarks) Depleted Balow Dark Surface (A11) Depleted Matrix (F3) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Redox Dark Surface (F7) *Indicators (C11) No Sandy Mucky Mineral (S1) Vernal Pools (F9) *Indicators (C11) No Sandy Mucky Mineral (S1) Setticture Larger (If present): Type No Type Sandy Mucky Mineral (S1) Setometor populatic. No Sandy Mucky Mineral (S1) Satartion (S12) Biotic Cruet (S112)	0-2						7.0	eresa	Plan	nt-M	avenia	
Type: C C Type: C C Type: C C Type: Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histic Eppedon (A2) Standy Redox (S5) 2 on Muck (A10) (LRR D) Black Histic (A3) Loamy Gueyd Matrix (F3) Reduced Vertic (F16) Hydrogen Stuffae (A4) Loamy Gueyd Matrix (F3) Other (Explain in Remarks) Depleted Balow Dark Surface (A11) Depleted Matrix (F3) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Redox Dark Surface (F7) *Indicators (C11) No Sandy Mucky Mineral (S1) Vernal Pools (F9) *Indicators (C11) No Sandy Mucky Mineral (S1) Setticture Larger (If present): Type No Type Sandy Mucky Mineral (S1) Setometor populatic. No Sandy Mucky Mineral (S1) Satartion (S12) Biotic Cruet (S112)	2-16	10YR4/1	95	25 YE \$16	20	C	M	Claus	sand	-		
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histo Eppedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Red Parent Material (T2) Other (Explain in Remarks) Depleted Matrix (S1) Depleted Matrix (S1) Stratified Layers (A6) (LRR C) Depleted Matrix (S1) Depleted Matrix (S4) Sandy Mucky Mineral (S1) Depleted Matrix (S4) Present; Sandy Gleyed Matrix (S4) Red Varia Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:			·	The second second second				12	2			
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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GWR (T. Slough)	City/County: MTU Sampling Date: 2-12-15
Applicant/Owner: MPWPCP	State: CA Sampling Point:
vestigator(s): M. Johnson	_ Section, Township, Range:
Landform (hillslope, terrace, etc.): _floodplain	Local relief (concave, convex, none): <u>Convey</u> Slope (%):
Subregion (LRR): Ay d Jest (LRRC) Lat:	Long: Datum: NAD 82
Soil Map Unit Name: Puckeco	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil, or Hydrology naturally p	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	Is the Sampled Area
Wetland Hydrology Present? Yes X No	within a Wetland? Yes <u>No</u> No
Remarks:	and i have a second plant
prougur - mis	area is part of a manipulated
We	tland
VEGETATION – Use scientific names of plants.	

<u>Tree Stratum</u> (Plot size:) 1	Absolute Dominant Indicate <u>% Cover Species? Status</u>	
2 3	- the second sec	Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 10 x10	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: _////////////////////////////////////
1. <u>S. Californicus</u> 2. <u>B. Salicifolia</u>	<u>45 4 OBL</u> 20 4 FAC	Prevalence Index worksheet: Total % Cover of: Multiply by:
3		OBL species x 1 = FACW species x 2 =
4 5	2	FAC species x 3 =
Herb Stratum (Plot size: 575)	$\underline{65}$ = Total Cover	FACU species x 4 = UPL species x 5 =
1. C. Maculation 2. J. Carnosa	<u>30 y FACE</u> 55 y OBL	Column Totals: (A) (B) Prevalence Index = B/A =
3 4		Hydrophytic Vegetation Indicators:
5 6		X Dominance Test is >50% Prevalence Index is ≤3.0 ¹
7		 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	85 = Total Cover	 Problematic Hydrophytic Vegetation¹ (Explain)
12		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum	= Total Cover	Hydrophytic Vegetation Present? Yes <u>V</u> No

Sales -

		10
Sampling	Point:	10

Depth	Matrix		Redo	x Features	3	or confirm		
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
3-2					_	5	(UMDS6	that Waterial
2-8	IOYR 4/1	30	2.54R4/6	20	C	PM	SadyCla	la
10	1011-11		- 42 / se	-			- 0	0
					<u> </u>			
								-
		1.00						
		-						-
					-			
Type: C=Co	oncentration, D=Dep	oletion, RN	=Reduced Matrix, CS	S=Covered	d or Coat	ed Sand C		Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	cable to al	I LRRs, unless othe	rwise note	ed.)			ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red					n Muck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped Ma					m Muck (A10) (LRR B)
Black Hi			Loamy Muc					luced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle		(F2)			Parent Material (TF2)
	d Layers (A5) (LRR	C)	Z Depleted M		-		Oth	er (Explain in Remarks)
the second se	uck (A9) (LRR D)		E Redox Darl					
	d Below Dark Surfac	ce (A11)	Depleted D				3 metters to	ors of hydrophytic vegetation and
	ark Surface (A12)		Redox Dep		F8)			nd hydrology must be present,
	Aucky Mineral (S1)		Vernal Poo	IS (F9)				s disturbed or problematic.
	Gleyed Matrix (S4)						Unico	a disturbed of problematic.
	Layer (if present):							
Type:	for the						Undate C	oil Present? Yes 📈 No
Depth (in	ches):						Hydric 3	
Remarks:								
	OGY							
IYDROLO	IGY drology Indicators							
HYDROLO Wetland Hy	drology Indicators		ed; check all that app	ly)			<u>Se</u>	condary Indicators (2 or more required)
IYDROLO Wetland Hy Primary Indi	drology Indicators cators (minimum of		ed; check all that app Salt Crus				<u>Se</u>	condary Indicators (2 or more required) Water Marks (B1) (Riverine)
IYDROLO Wetland Hy Primary Indi Surface	drology Indicators cators (minimum of Water (A1)		Salt Crus	t (B11)			<u>Se</u>	
HYDROLO Wetland Hy Primary Indi Surface High Wi	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus Biotic Cru	t (B11) ist (B12)	es (B13)		<u>Se</u>	Water Marks (B1) (Riverine)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3)	one requir	Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) ivertebrate			<u>Se</u> 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	one requir	Salt Crus Biotic Cru Aquatic Ir Hydrogen	t (B11) ist (B12) ivertebrate Sulfide O	dor (C1)	a Living R		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No	one requir erine) onriverine	Salt Crus Biotic Cru Aquatic Ir Hydroger) ∠ Oxidized	t (B11) ist (B12) invertebrate i Sulfide O Rhizosphe	dor (C1) eres along			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No	one requir erine) onriverine	 Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence 	t (B11) ist (B12) nvertebrate n Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C	24)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	one requir erine) onriverine erine)	 Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir 	t (B11) ist (B12) nvertebrate a Sulfide O Rhizosphe of Reduct on Reduct	dor (C1) eres along ed Iron (C ion in Till	24)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundat Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one requir erine) onriverine erine) I Imagery (Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc 	t (B11) ist (B12) nvertebrate a Sulfide O Rhizosphe of Reduct on Reduct	dor (C1) eres along ed Iron (C ion in Till (C7)	24)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obse	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	one requir erine) onriverine erine) I Imagery (Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir B7) Thin Muc Other (Ex 	t (B11) ist (B12) invertebrate in Sulfide O Rhizosphe in Reduct on Reduct k Surface cplain in Re	dor (C1) eres along ed Iron (C ion in Till (C7)	24)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
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HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Saturati Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one requir erine) onriverine erine) I Imagery (Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir B7) Thin Muc Other (Ex No X Depth (ii No X Depth (ii	t (B11) ist (B12) nvertebrate a Sulfide O Rhizosphe of Reduct k Surface cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Till (C7)	24) ed Soils ((poots (C3) 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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F	drology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	one requir erine) onriverine erine) I Imagery (Yes	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir B7) Thin Muc Other (Ex No X Depth (ii No X Depth (ii	t (B11) ist (B12) invertebrate a Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Till (C7)	24) ed Soils ((poots (C3) 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 (C9 Shallow Aquitard (D3)
YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Nurface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	drology Indicators <u>cators (minimum of</u> Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? present? poilary fringe)	one requir erine) onriverine erine) I Imagery (Yes Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir B7) Thin Muc Other (Ex No X Depth (ii No X Depth (ii	t (B11) ist (B12) invertebrate a Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re- nches): nches):	dor (C1) eres along ed Iron (C ion in Till (C7) emarks)	24) ed 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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hy Primary Indi	drology Indicators <u>cators (minimum of</u> Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? present? poilary fringe)	one requir erine) onriverine erine) I Imagery (Yes Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir B7) Thin Muc Other (Ex No X Depth (ii No X Depth (ii	t (B11) ist (B12) invertebrate a Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re- nches): nches):	dor (C1) eres along ed Iron (C ion in Till (C7) emarks)	24) ed 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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	drology Indicators <u>cators (minimum of</u> Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? present? poilary fringe)	one requir erine) onriverine erine) I Imagery (Yes Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir B7) Thin Muc Other (Ex No X Depth (ii No X Depth (ii	t (B11) ist (B12) invertebrate a Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re- nches): nches):	dor (C1) eres along ed Iron (C ion in Till (C7) emarks)	24) ed 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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hy Primary Indi	drology Indicators <u>cators (minimum of</u> Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? present? poilary fringe)	one requir erine) onriverine erine) I Imagery (Yes Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir B7) Thin Muc Other (Ex No X Depth (ii No X Depth (ii	t (B11) ist (B12) invertebrate a Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re- nches): nches):	dor (C1) eres along ed Iron (C ion in Till (C7) emarks)	24) ed 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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: <u><u>G</u>A Applicant/Owner:</u>	UR (7 MAR	LWD PA		City/County:	MTY State:	00	ng Date: <u>2-</u> ng Point: <u></u>	12-15
vestigator(s): _/				Section, Towns		Car- Gampin		
Landform (hillslope	, terrace, etc): Floodplain		_ Local relief (co	oncave, convex, none): _	None	Slope (%):_ 0
Subregion (LRR): _	-	West LRRG	Lat:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Long:		Datum:	VAD83
Soil Map Unit Name	e: Pach	210			NW	I classification:		
Are climatic / hydro	logic condition	ons on the site typical f	or this time of y	ear? Yes	No <u>×</u> (If no, ex	plain in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "Normal Circums	tances" present?	Yes 1	No
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If needed, explain a	ny answers in Rem	narks.)	
201222002200								

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>X</u> Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks: Drought	-	This all wetla	nd is part of	ba mo	inipilated

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute	Dominant Indicator	Dominance Test worksheet:
1)		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata:
Sapling/Shrub Stratum (Plot size: 18 × 10) 1. B. Salicifolda 2.		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
	80	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ×5')			UPL species x 5 =
1. F. Salina		and a second sec	Column Totals: (A) (B)
23			Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators:
5			∠ Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)	40	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
1 2			be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cov	er of Biotic Cr	rust	Present? Yes No
Remarks:			1

Sampling Point:

(inches) Color (moist) %	<u> </u>	Loc ² Texture	Remarks
D-12, 104R2/2 100	5	andy Cluyloc	im
		• • •	
	<u> </u>		
vpe: C=Concentration D=Depletion R	M=Reduced Matrix, CS=Covered or Coated	Sand Grains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicator	s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	the second se	ced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		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)		31	of budges budge uppetation and
_ Thick Dark Surface (A12)	Redox Depressions (F8)		s of hydrophytic vegetation and I hydrology must be present,
_ Sandy Mucky Mineral (S1) _ Sandy Gleyed Matrix (S4)	Vernal Pools (F9)		disturbed or problematic.
estrictive Layer (if present):			
Туре:			γ
Depth (inches):		Hydric So	il Present? Yes <u>No </u>
Depth (inches):		Hydric So	il Present? Yes <u>No </u>
Depth (inches):		Hydric So	il Present? Yes <u>No </u>
Depth (inches):		Hydric So	il Present? Yes <u>No </u>
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators:			il Present? Yes <u>No </u>
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators:		Sec	
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requ _ Surface Water (A1)	ired; check all that apply)	Sec.	ondary Indicators (2 or more required)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secu	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) ne) Oxidized Rhizospheres along L	<u>Sec</u> 	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)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) me) Oxidized Rhizospheres along L Presence of Reduced Iron (C4)	<u>Sec</u> 	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)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requ 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)	ired; 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	iving Roots (C3)	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)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requinations) 	ired; 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 r (B7) Thin Muck Surface (C7)	iving Roots (C3)	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 (C9
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requinations) 	ired; 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	iving Roots (C3)	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 (C9 Shallow Aquitard (D3)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one reque 	ired; 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 r (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	iving Roots (C3)	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 (C9 Shallow Aquitard (D3)
Depth (inches):	ired; 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 f (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	iving Roots (C3)	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 (C9 Shallow Aquitard (D3)
Depth (inches):	ired; 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 f (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	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 (C9 Shallow Aquitard (D3)
Depth (inches):	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) me)Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled r (B7)Thin Muck Surface (C7) Other (Explain in Remarks) NoDepth (inches):	iving Roots (C3) Soils (C6) Wetland Hydrolc	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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):	ired; 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) Wetland Hydrolc	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 (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATIO	N DATA FORM – Arid West Region
Project/Site: <u>GWR (T Slowph)</u> C Applicant/Owner: <u>MRWPCA</u>	ity/County: MTTY Sampling Date: 2-12-15 State: Sampling Point:
vestigator(s): 14 Johnson S	ection, Township, Range:
Landform (hillslope, terrace, etc.):	.ocal relief (concave, convex, none): Slope (%):
	Long: Datum: NAD 83
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes NoX (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly di	
Are Vegetation, Soil, or Hydrology naturally probl	
SUMMARY OF FINDINGS – Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area Wafe 15 within a Wetland? Yes No
Remarks: Mrd year of statewic	te drought This area is memipulated
VEGETATION – Use scientific names of plants.	
	Dominant Indicator Dominance Test worksheet: Species? Status That Are OBL, FACW, or FAC: Total Number of Dominant

3			Total Number of Domina Species Across All Stra		(B)
Sapling/Shrub Stratum (Plot size:		= Total Cover	Percent of Dominant Sp That Are OBL, FACW, o		(A/B)
12			Prevalence Index work	1	by:
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5			FAC species	x 3 =	
Harb Stratum (Diat size)		= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size:)			UPL species	x 5 =	
1			Column Totals:	(A)	(B)
2 3			Prevalence Index	= B/A =	
4			Hydrophytic Vegetatio	n Indicators:	
5			Dominance Test is	>50%	
5			Prevalence Index is	≤3.0 ¹	
7			Morphological Adap data in Remarks	otations ¹ (Provide su or on a separate sl	upporting heet)
Noody Vine Stratum (Plot size:		the later and the second	Problematic Hydrop	hytic Vegetation ¹ (E	Explain)
1			¹ Indicators of hydric soil		
2			be present, unless distu	rbed or problematic	9
% Bare Ground in Herb Stratum	and the second second	= Total Cover tic Crust	Hydrophytic Vegetation	No_>	/
Zemarks:			Present? Yes		<u>V</u>
Unvegetated					
Unvegetated					

US Army Corps of Engineers

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San	noling	PO	int

Depth	Matrix		Redo	x Features			
nches)	Color (moist)	%	Color (moist)	%Type ¹	Loc ²	Texture	Remarks
-18	10YR4/1	50				Oan	
A	DELERÍA	50			2,555	** C	
- 9	7.21200	20-			-	-	
		<u></u>				A	-
					1.1		
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
							-
-1							
						(P	
	oncentration, D=Dep	letion RM=Re	educed Matrix, CS	S=Covered or Coa	ted Sand C	Grains. 2	Location: PL=Pore Lining, M=Matrix.
fric Soil	Indicators: (Applica	able to all LR	Rs, unless othe	rwise noted.)			ors for Problematic Hydric Soils ³ :
Histosol			Sandy Red			1 c	m Muck (A9) (LRR C)
	pipedon (A2)		Stripped Ma				m Muck (A10) (LRR B)
	stic (A3)			ky Mineral (F1)			duced Vertic (F18)
	n Sulfide (A4)			yed Matrix (F2)		Re	d Parent Material (TF2)
	Layers (A5) (LRR C	C)	Depleted M	latrix (F3)		Oth	ner (Explain in Remarks)
1 cm Mu	ick (A9) (LRR D)	2	Redox Darl	k Surface (F6) 🦛	1		
Depleted	d Below Dark Surface	e (A11)	Depleted D	ark Surface (F7)			
Thick Da	ark Surface (A12)			ressions (F8)			ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			nd hydrology must be present,
Sandy G	Bleyed Matrix (S4)			1.1.1		unles	s disturbed or problematic.
	Layer (if present):						
strictive	Layer (in present).						
strictive	Layer (il present).		_				Y
Туре:			-	-		Hydric S	Soil Present? Yes K No
Type: Depth (in marks:	ches):					Hydric S	Soil Present? Yes <u>No</u> No
Type: Depth (in marks: DROLO	ches):		_			Hydric S	Soil Present? Yes <u>No</u> No
Type: Depth (in marks: DROLO etland Hy	ches): GY drology Indicators:						
Type: Depth (in marks: DROLO etland Hy mary India	ches): GY drology Indicators: cators (minimum of c		check all that app				econdary Indicators (2 or more required)
Type: Depth (in marks: DROLO tiland Hy mary India	Ches): GY drology Indicators: cators (minimum of c Water (A1)		check all that app	t (B11)			econdary Indicators (2 or more required) _ Water Marks (B1) (Riverine)
Type: Depth (in marks: DROLO etland Hy mary India Surface High Wa	Ches): GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2)		check all that app Salt Cruss	t (B11) ist (B12)			econdary Indicators (2 or more required) _ Water Marks (B1) (Riverine) _ Sediment Deposits (B2) (Riverine)
Type: Depth (in marks: DROLO etland Hy mary India Surface High Wa Saturati	GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3)	one required; o	check all that app Salt Crust Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrates (B13)			econdary Indicators (2 or more required) _ Water Marks (B1) (Riverine) _ Sediment Deposits (B2) (Riverine) _ Drift Deposits (B3) (Riverine)
Type: Depth (in marks: DROLO tland Hy mary India Surface High Wa Saturati Water M	Ches): GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver	one required; o	check all that app Salt Crust Biotic Cru Aquatic Ir Hydrogen	t (B11) ist (B12) nvertebrates (B13) n Sulfide Odor (C1)	<u>Se</u>	econdary Indicators (2 or more required) _ Water Marks (B1) (Riverine) _ Sediment Deposits (B2) (Riverine) _ Drift Deposits (B3) (Riverine) _ Drainage Patterns (B10)
Type: Depth (in marks: DROLO tland Hy mary India Surface High Wa Saturati Water M Sedime	GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No	one required; on	check all that app Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized	t (B11) ist (B12) nvertebrates (B13) n Sulfide Odor (C1 Rhizospheres alo) 1g Living R	<u>Se</u>	econdary 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 (in marks: DROLO Etland Hy mary India Surface High Wa Saturati Water M Sedime Drift De	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive	one required; on	Check all that app Salt Crus Biotic Crus Aquatic Ir Hydrogen Oxidized Presence	t (B11) ist (B12) ivertebrates (B13) i Sulfide Odor (C1 Rhizospheres alor of Reduced Iron () ng Living R (C4)	<u>Se</u> 	econdary 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: Depth (in marks: DROLO tiland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface	GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	one required; (rine) nriverine) rine)	check all that app Salt Cruss Biotic Crus Aquatic Ir Hydrogen Oxidized Presence Recent Ir	t (B11) ist (B12) ivertebrates (B13) a Sulfide Odor (C1 Rhizospheres alou of Reduced Iron on Reduction in Ti) ng Living R (C4)	<u>Se</u> 	econdary 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 (C9
Type: Depth (in marks: DROLO tiland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive	one required; (rine) nriverine) rine)	check all that app Salt Crust Biotic Crust Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc	t (B11) ist (B12) invertebrates (B13) in Sulfide Odor (C1 Rhizospheres alou in of Reduced Iron in Reduction in Ti k Surface (C7)) ng Living R (C4)	<u>Se</u> 	econdary 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 (C9 Shallow Aquitard (D3)
Type: Depth (in- marks: DROLO Etland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S	GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one required; (rine) nriverine) rine)	check all that app Salt Crust Biotic Crust Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc	t (B11) ist (B12) ivertebrates (B13) a Sulfide Odor (C1 Rhizospheres alou of Reduced Iron on Reduction in Ti) ng Living R (C4)	<u>Se</u> 	econdary 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 (C3
Type: Depth (in marks: DROLO Etland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S	GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one required; (rine) nriverine) rine)	check all that app Salt Crust Biotic Crust Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc	t (B11) ist (B12) invertebrates (B13) in Sulfide Odor (C1 Rhizospheres alou in of Reduced Iron in Reduction in Ti k Surface (C7)) ng Living R (C4)	<u>Se</u> 	econdary 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 (C9 Shallow Aquitard (D3)
Type: Depth (in marks: DROLO tland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Id Obser	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	one required; (rine) nriverine) rine)	Check all that app Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc Other (Ex	t (B11) ist (B12) invertebrates (B13) in Sulfide Odor (C1 Rhizospheres alon of Reduced Iron on Reduction in Ti k Surface (C7) splain in Remarks)) ng Living R (C4)	<u>Se</u> 	econdary 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 (C4 Shallow Aquitard (D3)
Type: Depth (in marks: DROLO Etland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Eld Obser	Ches): GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Y	one required; (ine) inriverine) irine) Imagery (B7)	check all that app Salt Cruss Biotic Crus Aquatic Ir Aquatic Ir Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ist (B12) invertebrates (B13) in Sulfide Odor (C1 Rhizospheres alou of Reduced Iron on Reduction in Ti k Surface (C7) cplain in Remarks)) ng Living R (C4)	<u>Se</u> 	econdary 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 (C9 Shallow Aquitard (D3)
Type: Depth (in marks: DROLO etland Hy mary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S eld Obser	GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Y	ne required; (nriverine) nriverine) Imagery (B7)	check all that app Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ist (B12) invertebrates (B13) in Sulfide Odor (C1 Rhizospheres alou in of Reduced Iron (in Reduction in Tri k Surface (C7) splain in Remarks) inches):) ng Living R (C4) Iled Soils (I	<u>Se</u> 	econdary 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)

Remarks:

WETLAND D	ETERMINATION DATA	FORM - Arid West Regi	on
Project/Site: <u>GWR (TS/0/9h</u> Applicant/Owner: <u>MRUPC</u>	City/County:	MTY State: A	Sampling Date: <u>2-12-15</u> Sampling Point: <u></u>
vestigator(s): M. Johnson	Section, Tow	vnship, Range:	
Landform (hillslope, terrace, etc.): Berm	Local relief (concave, convex, none):	Slope (%): 0
Subregion (LRR): <u>LRRC</u>		Long:	
Soil Map Unit Name: <u>Packeco</u>		NWI class	
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No <u></u> (If no, explain ii	n Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any ans	
SUMMARY OF FINDINGS – Attach site r	nap showing sampling		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X	Sampled Area a Wetland? Yes	No <u></u>
Remarks:	1		0

)rought

This area is part of a manipulated VEGETATION - Use scientific names of plants.

Trop Stratum (Distains)	Absolute		Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:) 1	<u>% Cover</u>			Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
2 3 1			_	Total Number of Dominant Species Across All Strata:	2	(B)
Sapling/Shrub Stratum (Plot size: 10/x10/)		= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
1. Carex SP. 2. S. califonicus	60	<u> </u>	ORL/AMIS	Prevalence Index worksheet: 		
3				OBL species >	x 1 =	
4				FACW species >	x 2 =	
5				FAC species >	x 3 =	
Herb Stratum (Plot size:)		= Total Co	ver	FACU species >	x 4 =	
				UPL species >	x 5 =	-
2				Column Totals: (A	A)	_ (B)
2 3				Prevalence Index = B/A =		20
4				Hydrophytic Vegetation Indic	ators:	
5				₩ Dominance Test is >50%		
6				Prevalence Index is ≤3.0 ¹		
7				Morphological Adaptations data in Remarks or on a	¹ (Provide support separate sheet)	rting
Woody Vine Stratum (Plot size:)		= Total Co	ver	Problematic Hydrophytic Ve	egetation ¹ (Expla	in)
1				¹ Indicators of hydric soil and we	tland hydrology i	must
2				be present, unless disturbed or		
		= Total Co		Hydrophytic Vegetation		- 7
Remarks:	I OI DIOLIC CI	ust		Present? Yes X	No	-21

Sampling Point:

epth Matrix	Redox Features					
inches) Color (moist) %	Color (moist) % Type ¹ Loc ²					
0-18 10 VR 2/2 100		Sudylaum				
Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, CS=Covered or Coated Sand	d Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :				
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)	3				
Thick Dark Surface (A12)	Redox Depressions (F8)	³ 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.				
그 것은 것 같은						
Туре:		Utudate Satil Brassant2 Vag				
Type: Depth (inches):		Hydric Soil Present? Yes No				
		Hydric Soil Present? Yes No				

Wetland Hydrology Indicators:		Consider a la disatera (2 er more required)
Primary Indicators (minimum of one required; check	 k all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) 	Crayfish Burrows (C8)
Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Yes No	Depth (inches):	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitorir Remarks:	ng well, aerial photos, previous inspec	ctions), if available:

		. 1	Maslevell	_ Sampling Date:	2-12-15
pplicant/Owner:	C	ity/County:/			0-1
plicant/Owner:		Constant Tax	the second s	_ Sampling Point:	10 7
			ip, Range:		
ndform (hillslope, terrace, etc.):					
pregion (LRR):	Lat:		Long:	Datum:	NADO
I Map Unit Name:			NWI classi	ication:	
e climatic / hydrologic conditions on the site typical for	or this time of yea	? Yes	No 📈 (If no, explain in	Remarks.)	
Vegetation, Soil, or Hydrology	significantly d	isturbed?	Are "Normal Circumstances"	present? Yes	No
Vegetation, Soil, or Hydrology	naturally prob	lematic?	(If needed, explain any answ	vers in Remarks.)	
JMMARY OF FINDINGS – Attach site n					ires etc
MMART OF FINDINGS - Attach site in	ap showing :	samping po	לוות ווויסטמוויז, וומושביו	s, important reatt	1103, 010.
lydrophytic Vegetation Present? Yes		Is the Sa	mpled Area		
lydric Soil Present? Yes			Wetland? Yes	No X	
Vetland Hydrology Present? Yes	No			/	
emarks:	no rela	dian	the This	when is P	and of
3rd year of stat	ence	CMIN	Y a prose	1100 10101	0
<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			0 a mi	anipulated	ye.
GETATION – Use scientific names of	olants.		wet	land.	
		Dominant Indi	cator Dominance Test wo	rksheet:	
ee Stratum (Plot size:)	% Cover	Species? Sta	Number of Dominant	Species	
			That Are OBL, FACW	, or FAC:	(A)
			Total Number of Dom	inant 🔿	
<u></u>			Species Across All St	rata:	(B)
			Percent of Dominant	Species	
apling/Shrub Stratum (Plot size: 10 × 10')		= Total Cover	That Are OBL, FACW	, or FAC:	(A/B)
B. pilularis	20	Y	Prevalence Index w	orksheet:	
		_/	Total % Cover of	Multiply by	<i>I</i> :
			and the second s	x 1 =	
			FACW species	x 2 =	
			FAC species	x 3 =	
Clust	20	= Total Cover	FACU species	x 4 =	
erb Stratum (Plot size: 5 45)	17	V	UPL species	x 5 =	_
Bulgn		The The	Column Totals:	(A)	(B)
C. maculatura	- 5-	N PAC	The Brevalence Inde	ex = B/A =	
Carex of		19 UDLA	Hydrophytic Vegeta		
			Dominance Test		
			Prevalence Index		
				aptations ¹ (Provide sup	oporting
			data in Rema	rks or on a separate sh	eet)
	22	= Total Cover	Problematic Hyd	rophytic Vegetation ¹ (Ex	xplain)
oody Vine Stratum (Plot size:)	00	Total Gover			
	0			oil and wetland hydrolo	gy must
			De present, unless di	sturbed or problematic.	
1		= Total Cover	Hydrophytic		
Bare Ground in Herb Stratum 45 %	Cover of Biotic Cr	ust	Vegetation Present?	es No	

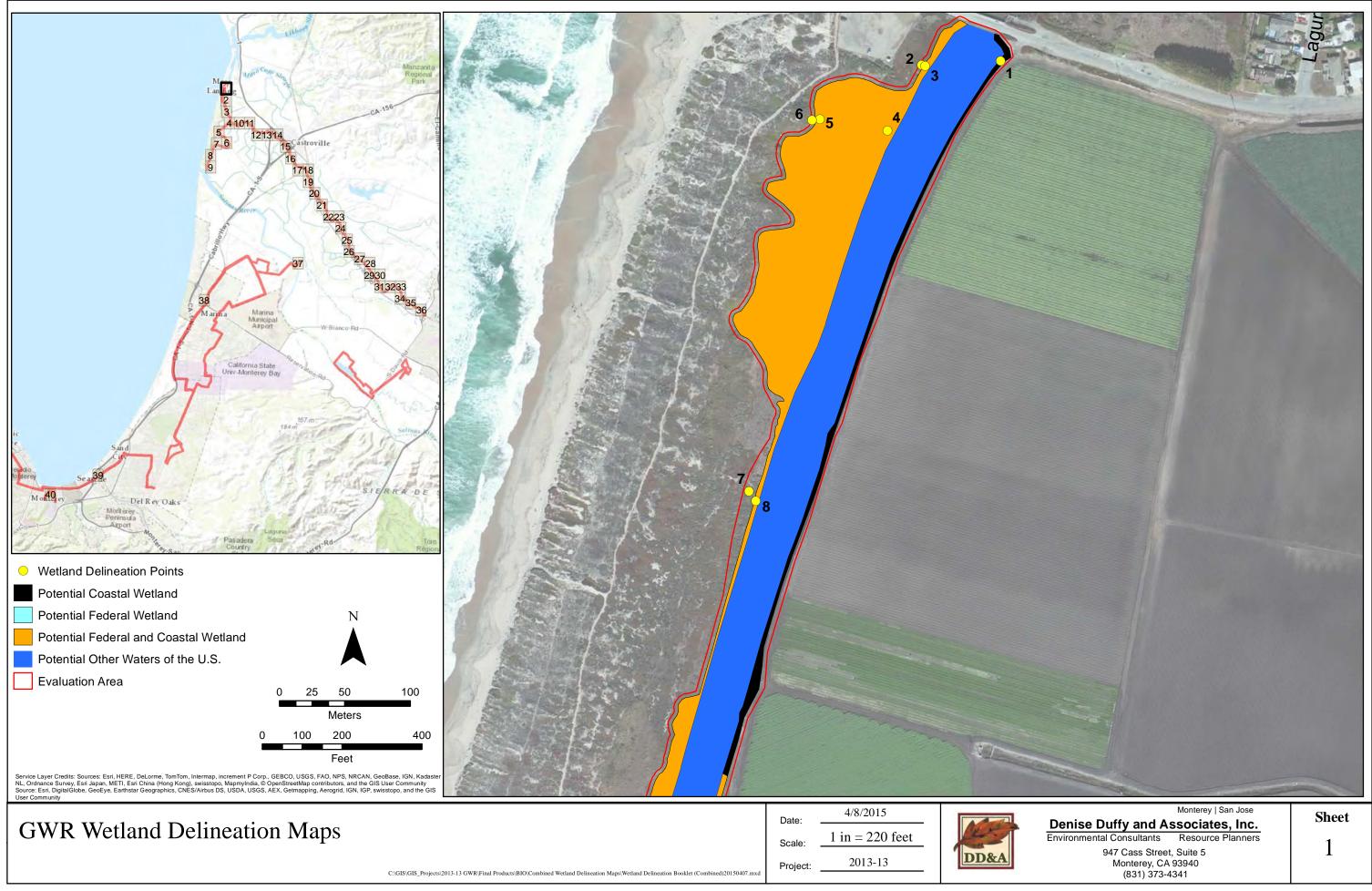
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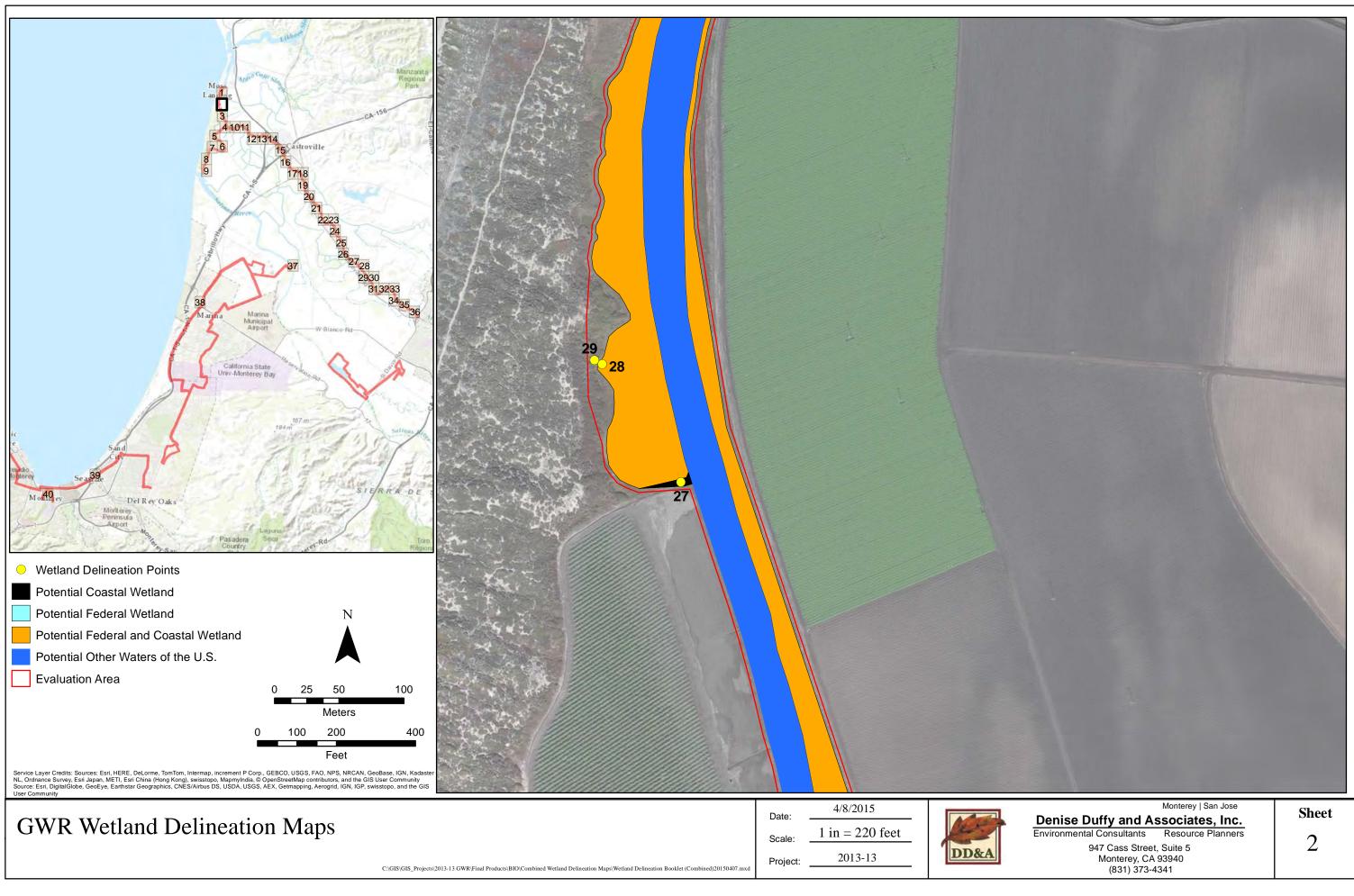
ii.

Sampling Point:

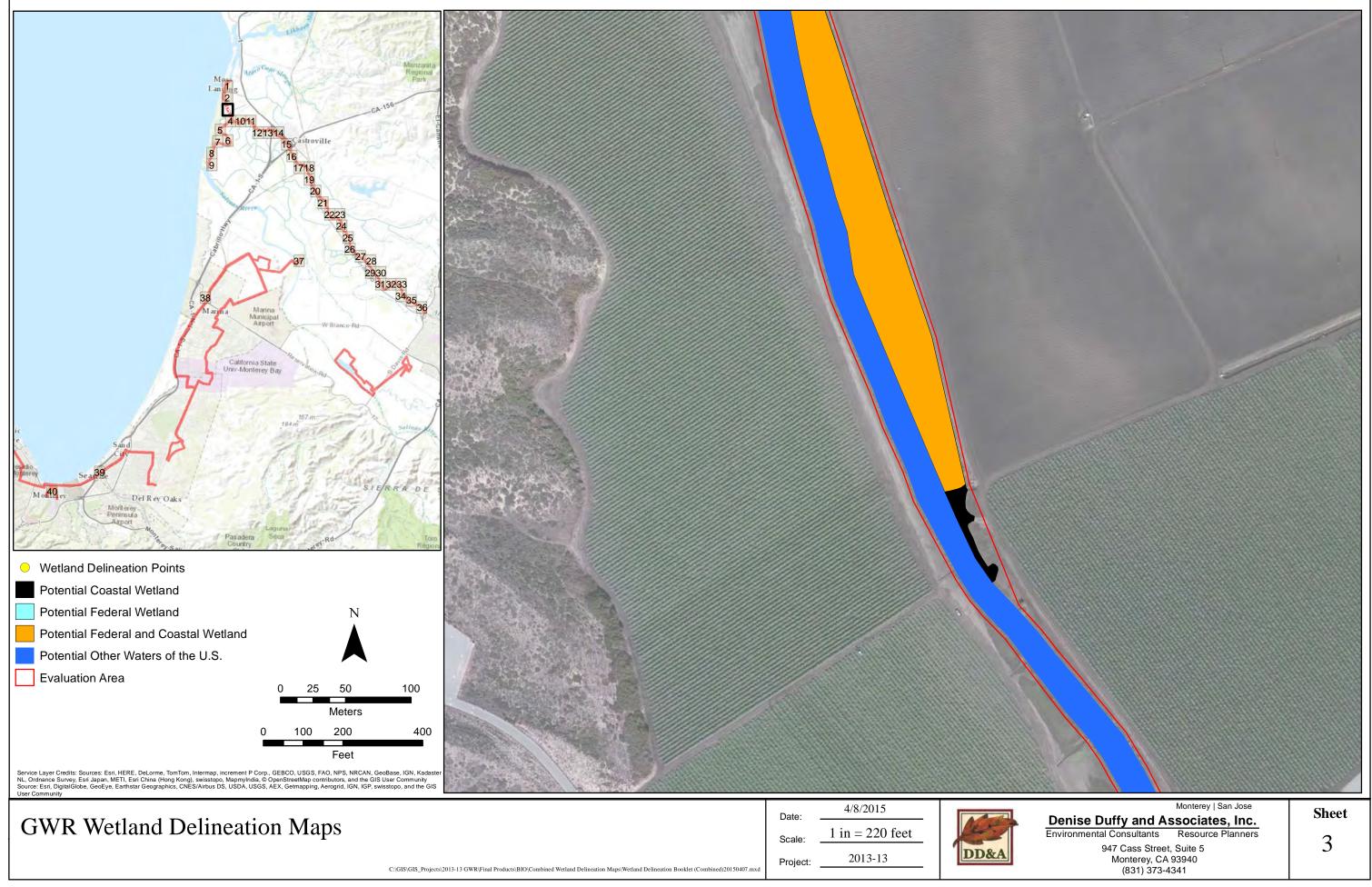
	ription: (Describe to	o the dept				or confirm	the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	rype ¹	Loc ²	Tauture	Desceda
018	10 VE 2/2	100	Color (moist)	- 70		LOC	Texture	Remarks
010	101244	100						
					_			
		<u> </u>						
				-				
	the second second							
	oncentration, D=Deple					ed Sand Gr		ion: PL=Pore Lining, M=Matrix.
	ndicators: (Applica	ble to all L	RRs, unless othe	rwise not	ed.)		Indicators for	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mu	ck (A9) (LRR C)
	pipedon (A2)		Stripped M					ck (A10) (LRR B)
Black Hi			Loamy Mud		2 10		Reduced	Vertic (F18)
	n Sulfide (A4)		Loamy Gle		(F2)			ent Material (TF2)
	Layers (A5) (LRR C))	Depleted M				Other (E	xplain in Remarks)
the second se	ck (A9) (LRR D)		Redox Dar					
	Below Dark Surface	(A11)	Depleted D	ark Surfac	ce (F7)		1.2.2	
	ark Surface (A12)		Redox Dep		F8)			hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo	ls (F9)				drology must be present,
	leyed Matrix (S4)						unless dist	urbed or problematic.
Restrictive L	_ayer (if present):							
Type:							1.000	
Depth (inc	ches):						Hydric Soil P	resent? Yes No
Remarks:								
IYDROLO	GY	_						
Wetland Hvo	trology Indicators:					_		
	ators (minimum of on	e required.	check all that ann	(v)			Second	ary Indicators (2 or more required)
	Water (A1)	e regunea,						
			Salt Crust					ter Marks (B1) (Riverine)
	ter Table (A2)		Biotic Cru					liment Deposits (B2) (Riverine)
Saturatio			Aquatic In					t Deposits (B3) (Riverine)
	arks (B1) (Nonriverin		Hydrogen		Section 2.		a second s	inage Patterns (B10)
	t Deposits (B2) (Non		Oxidized I	Rhizosphe	res along	Living Root	ts (C3) Dry-	-Season Water Table (C2)
Drift Dep	osits (B3) (Nonriveri	ne)	Presence	of Reduce	ed Iron (C4	4)	Cra	yfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Irc	on Reducti	ion in Tille	d Soils (C6)) Sati	uration Visible on Aerial Imagery (C9)
Inundatio	on Visible on Aerial Im	nagery (B7)	Thin Muck	Surface	(C7)		Sha	llow Aquitard (D3)
Water-St	ained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC	C-Neutral Test (D5)
Field Observ	vations:							
Surface Wate	er Present? Yes	s N	o 🔀 Depth (in	ches):		*		
Water Table	Present? Ye	s N	o 🖌 Depth (in	ches):		31		
Saturation Pr	esent? Ye	s N	o 🗹 Depth (in			Wetla	nd Hydrology F	Present? Yes No
(includes cap		° <u> </u>		unus)		_ /////	ind ny droiogy i	
Describe Rec	corded Data (stream g	jauge, mon	itoring well, aerial	photos, pr	evious ins	pections), i	f available:	
Damaster				-				
Remarks:				÷				

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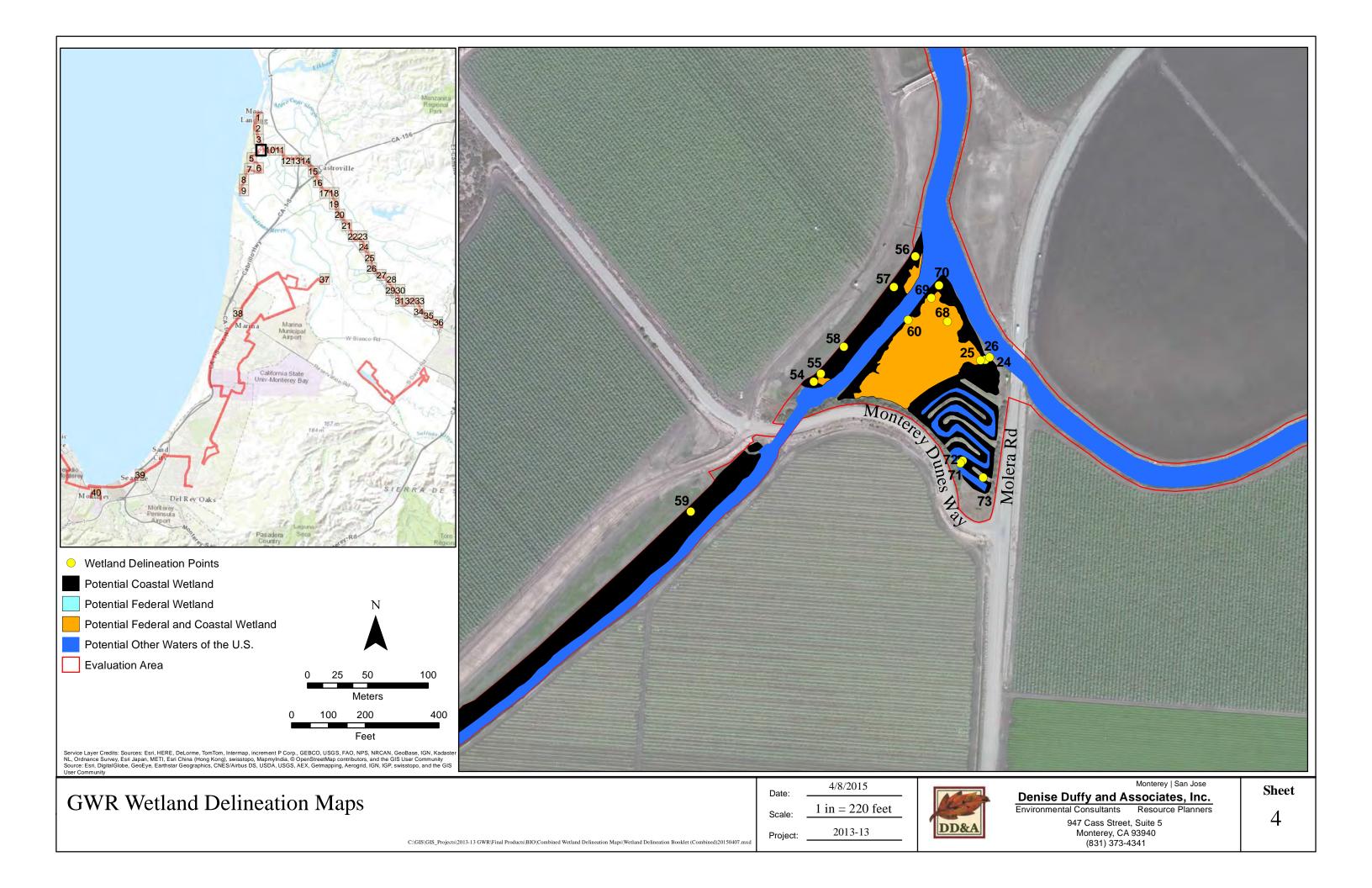


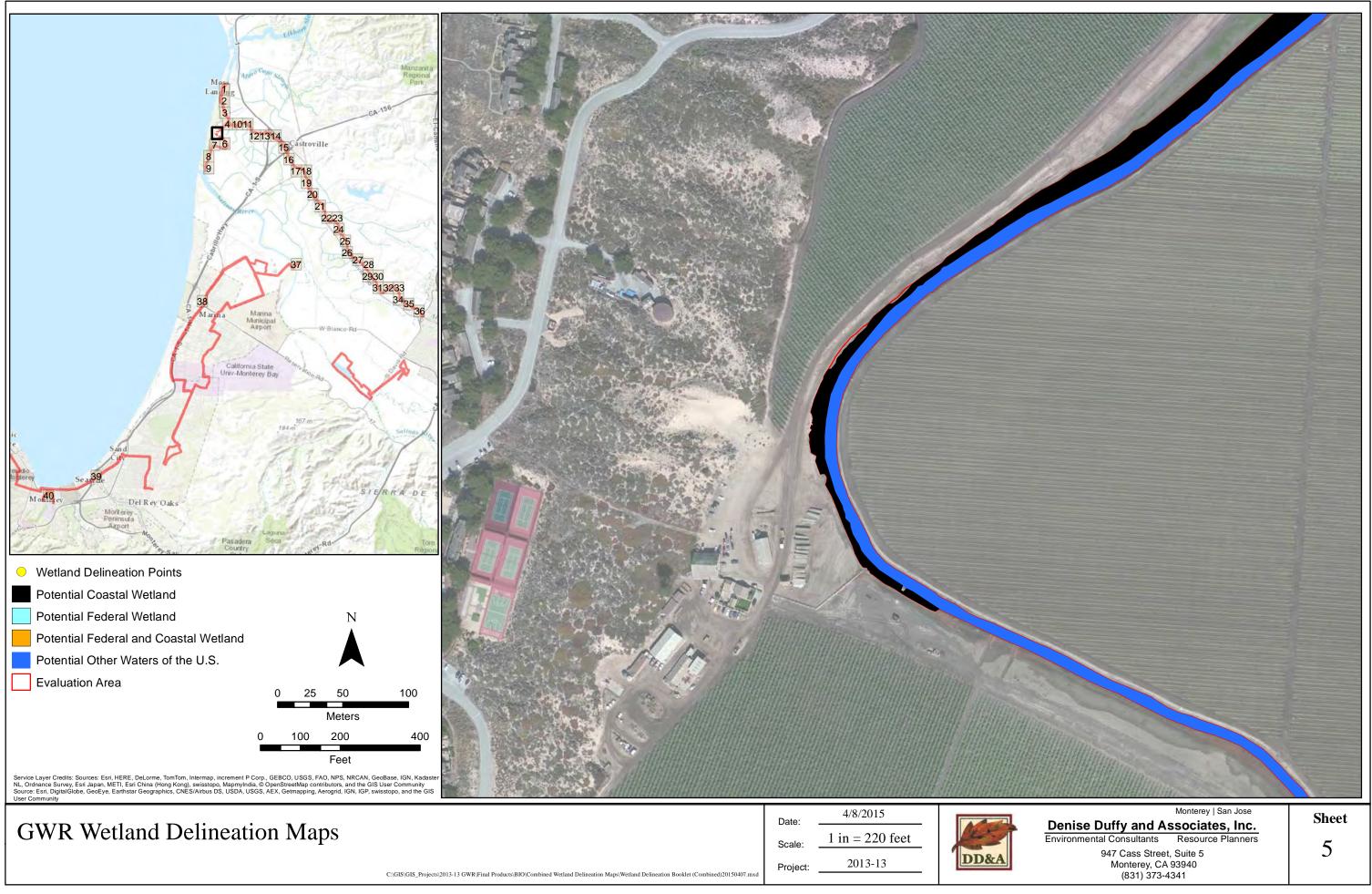


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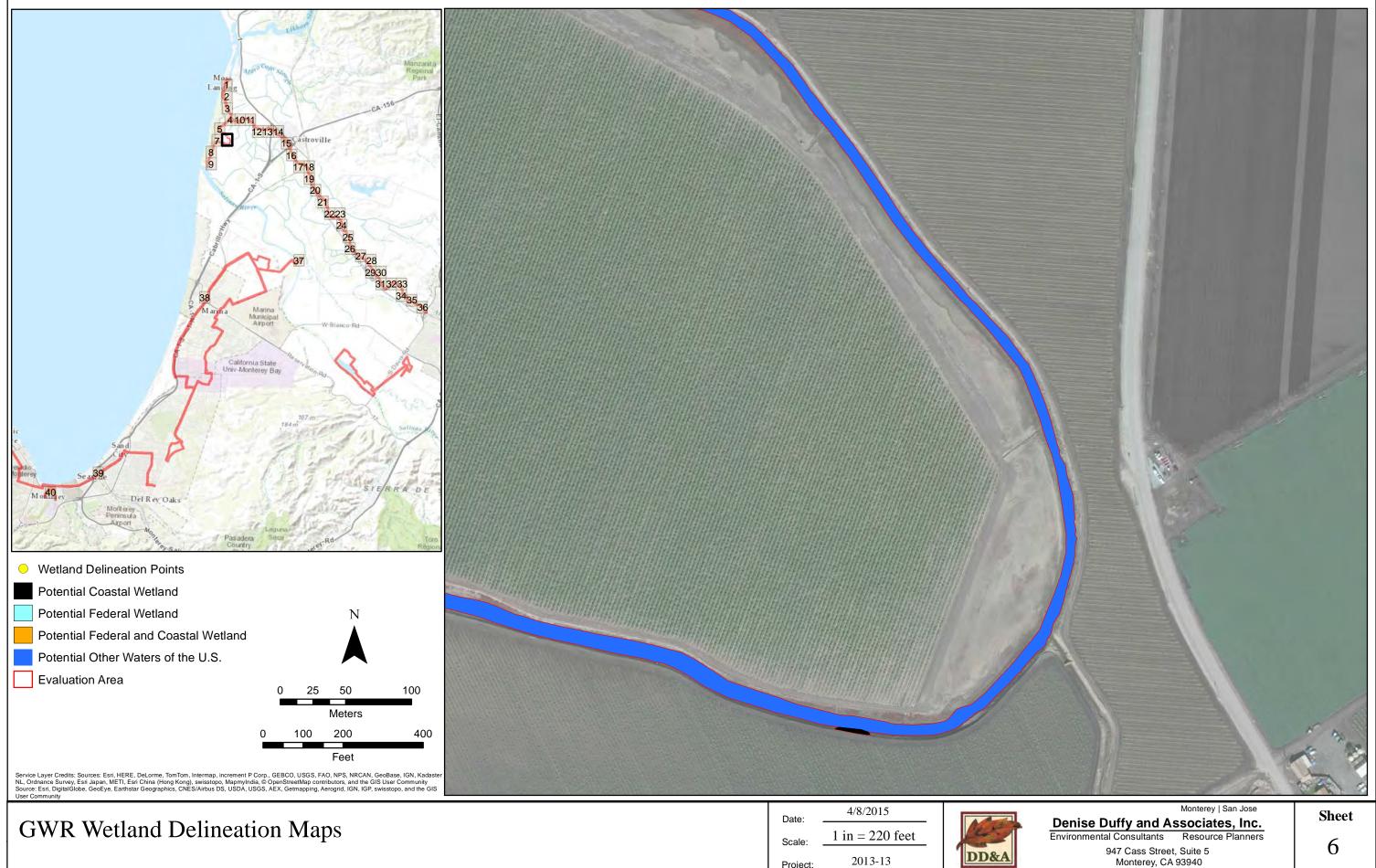


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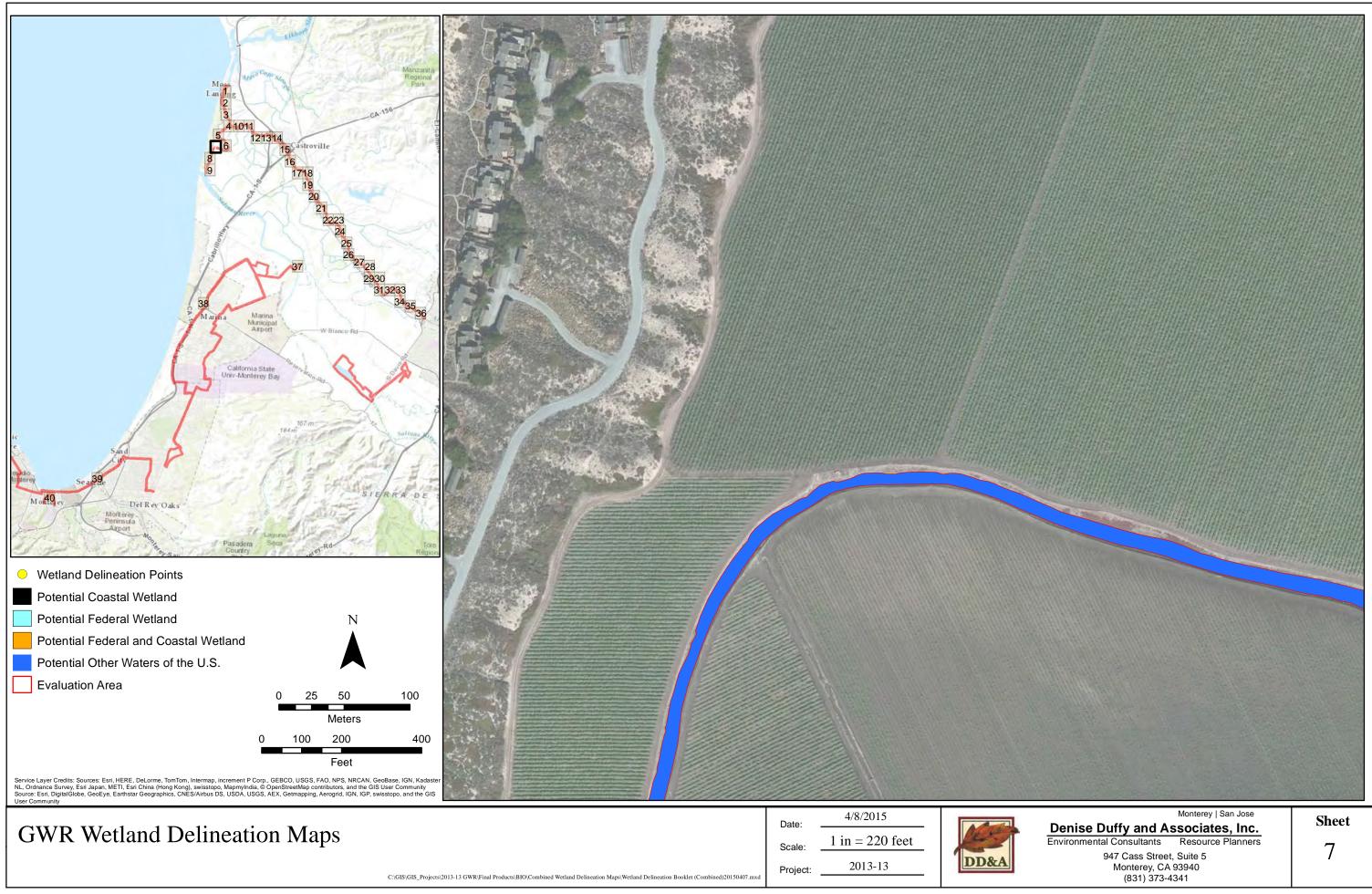
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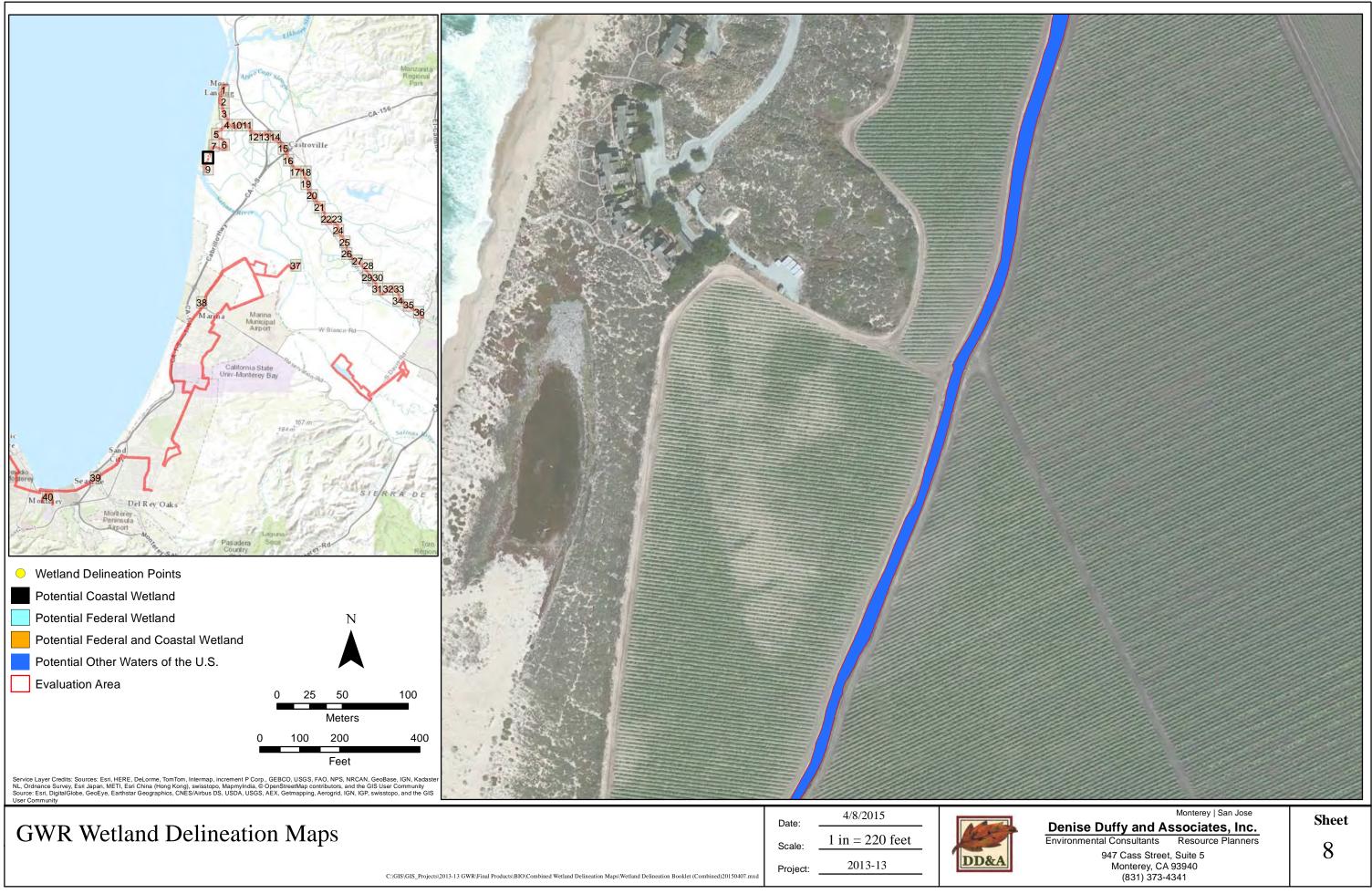
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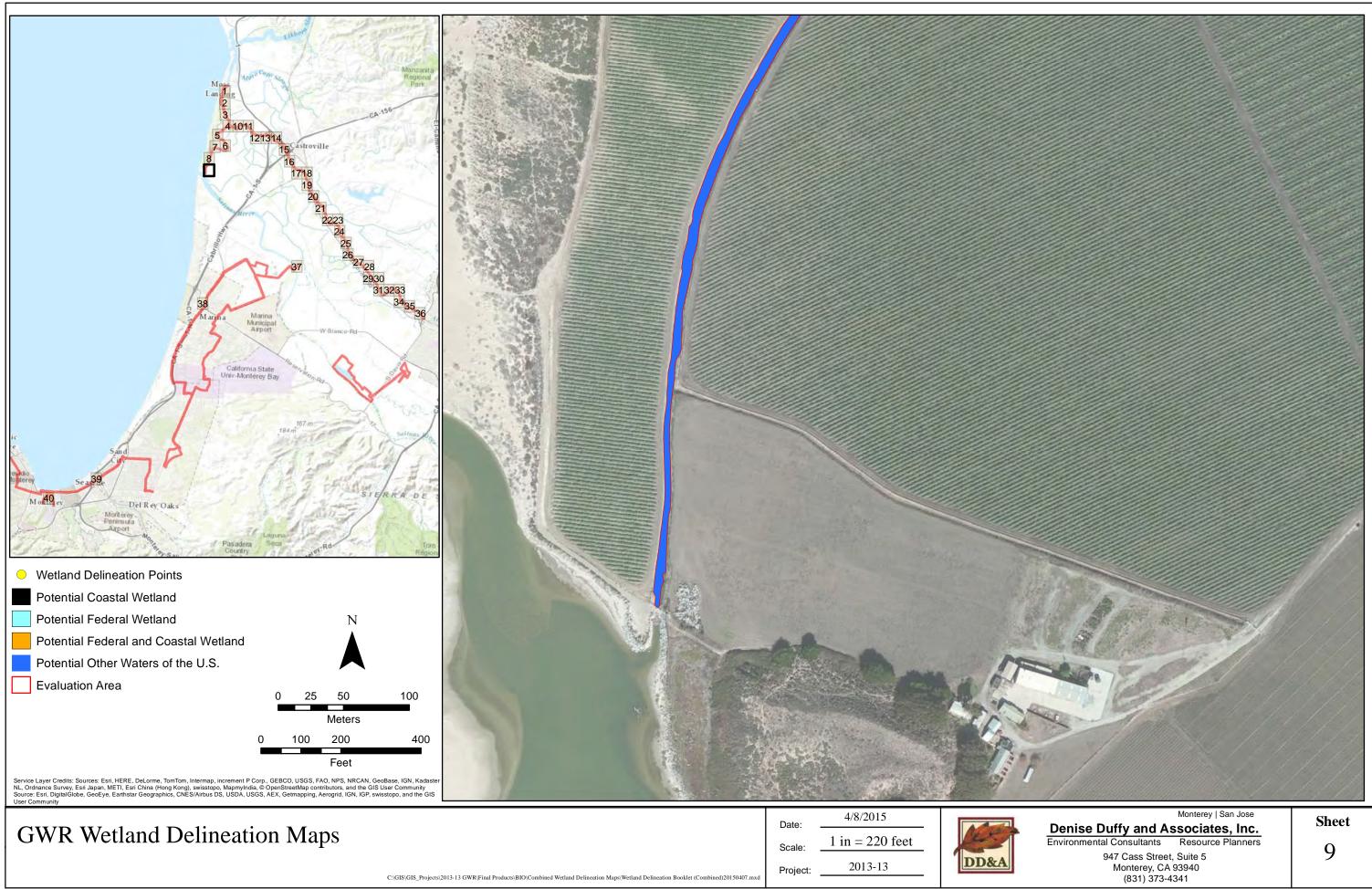
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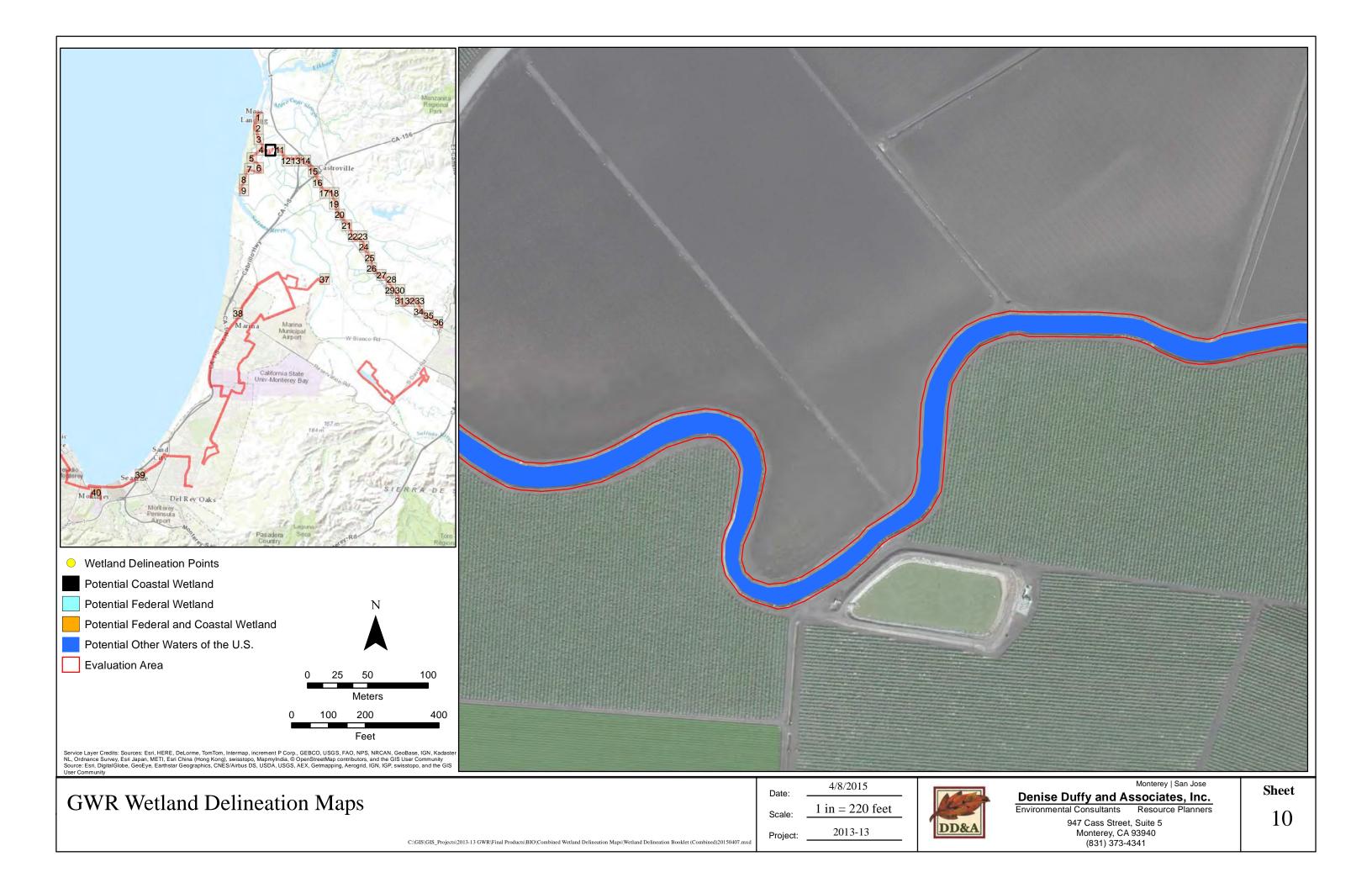
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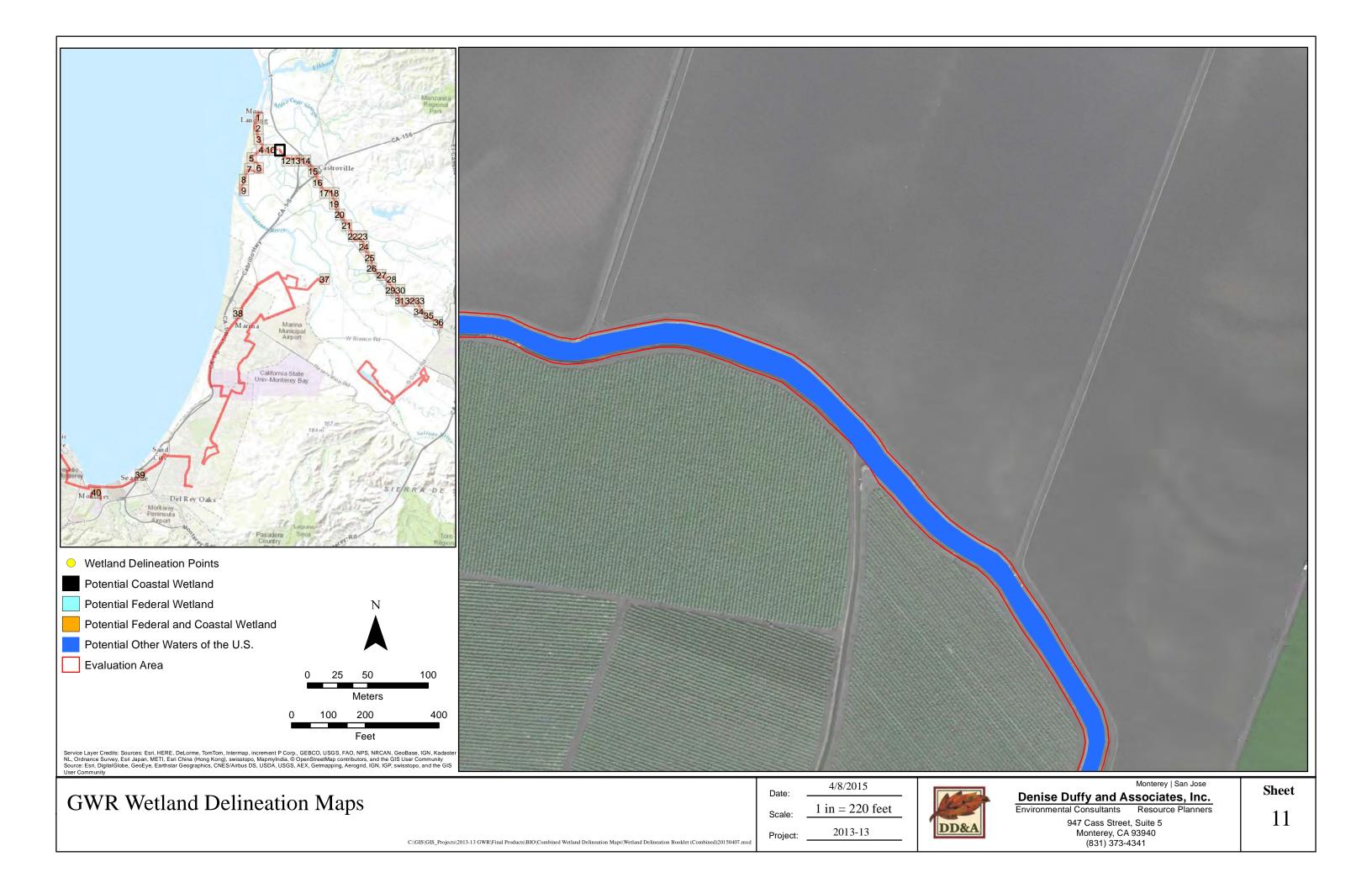


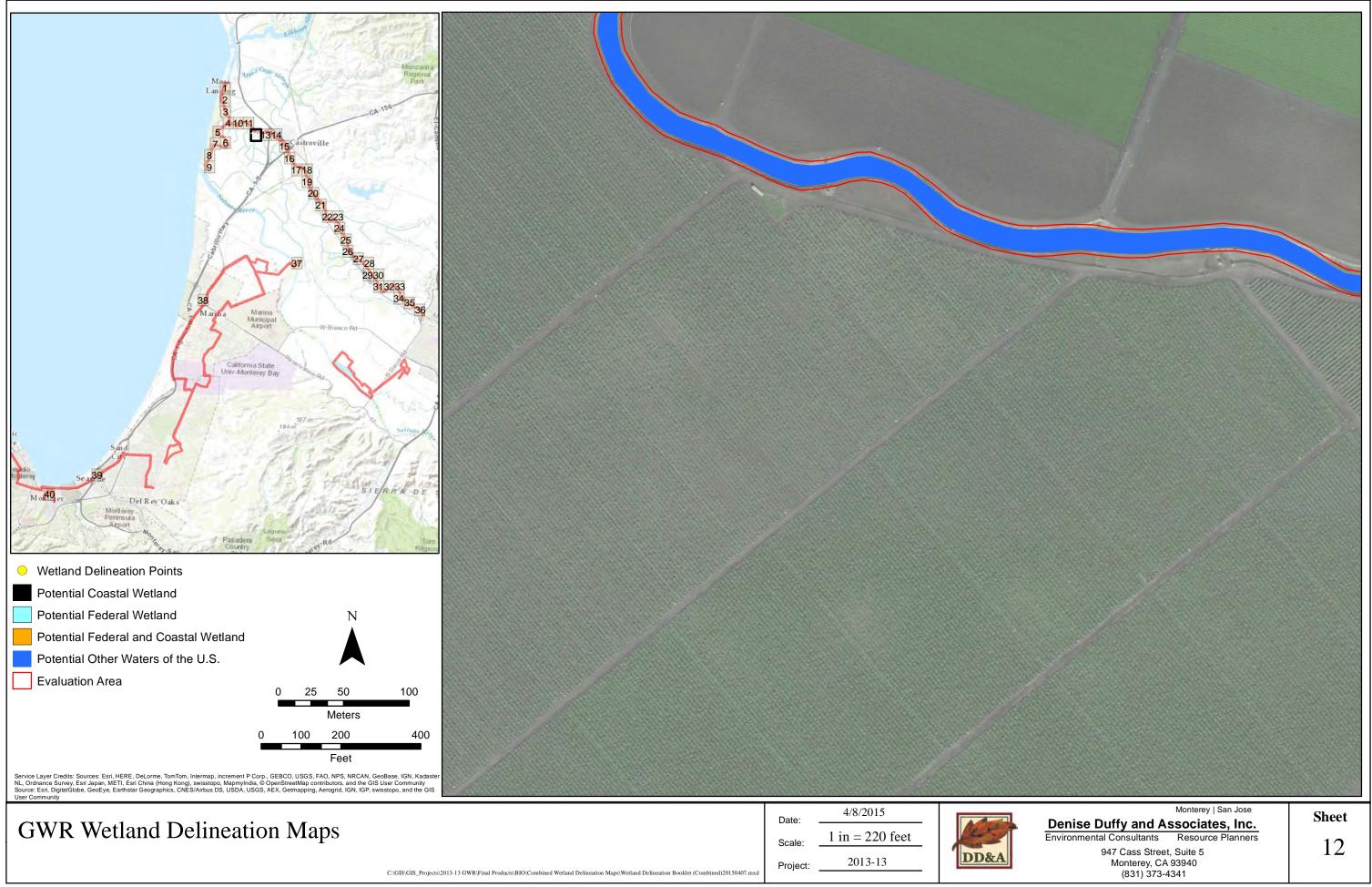




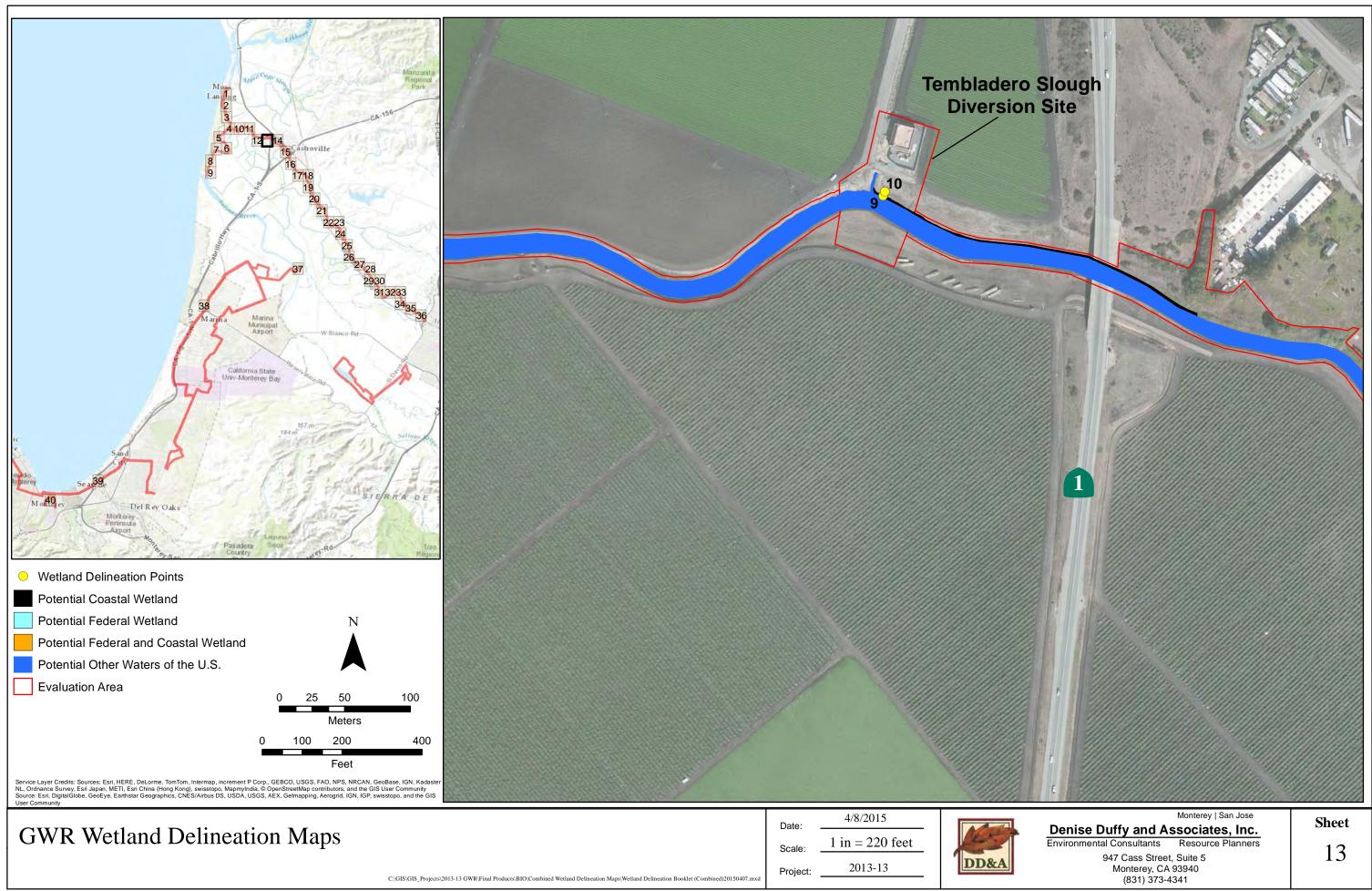
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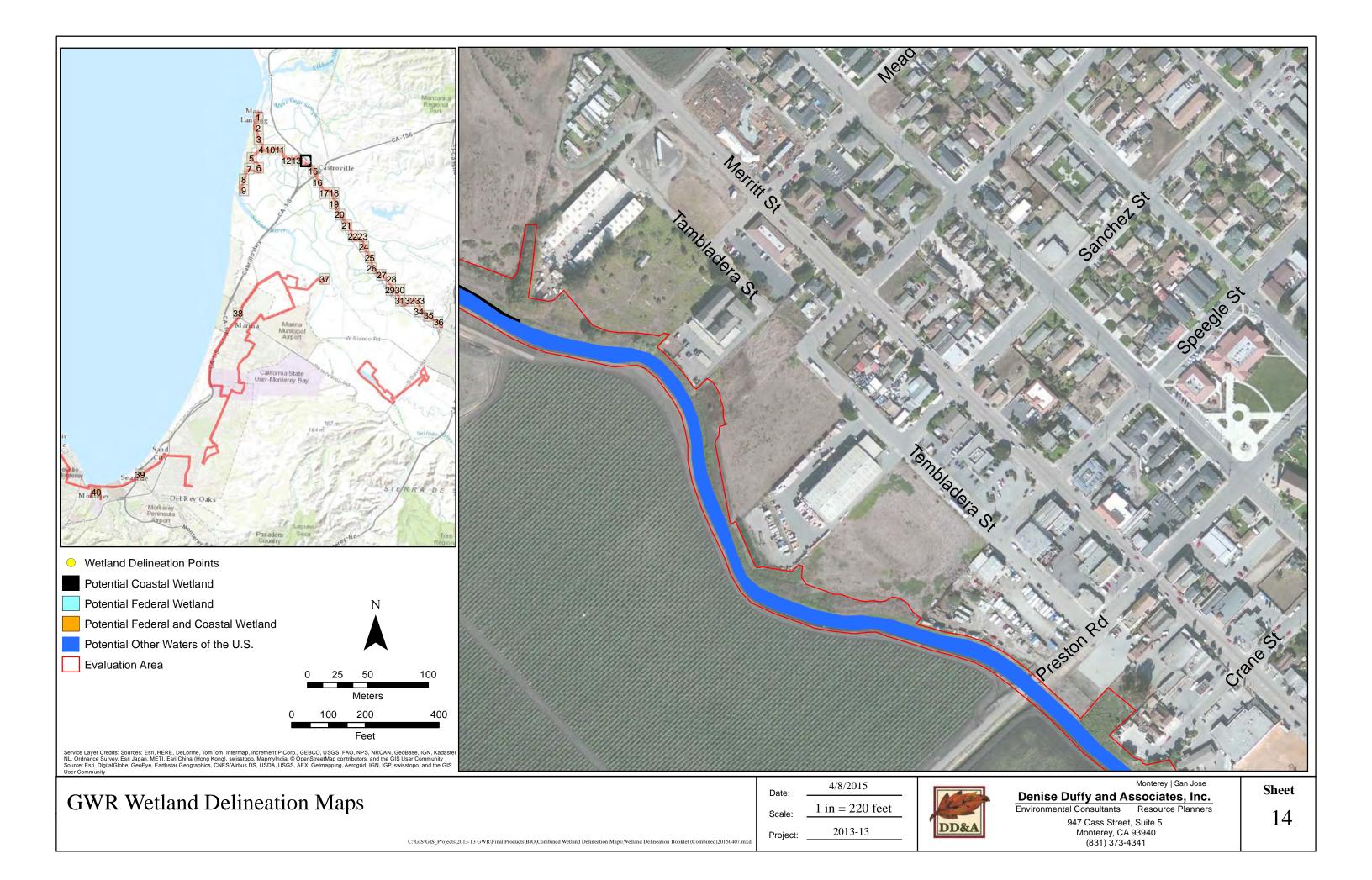


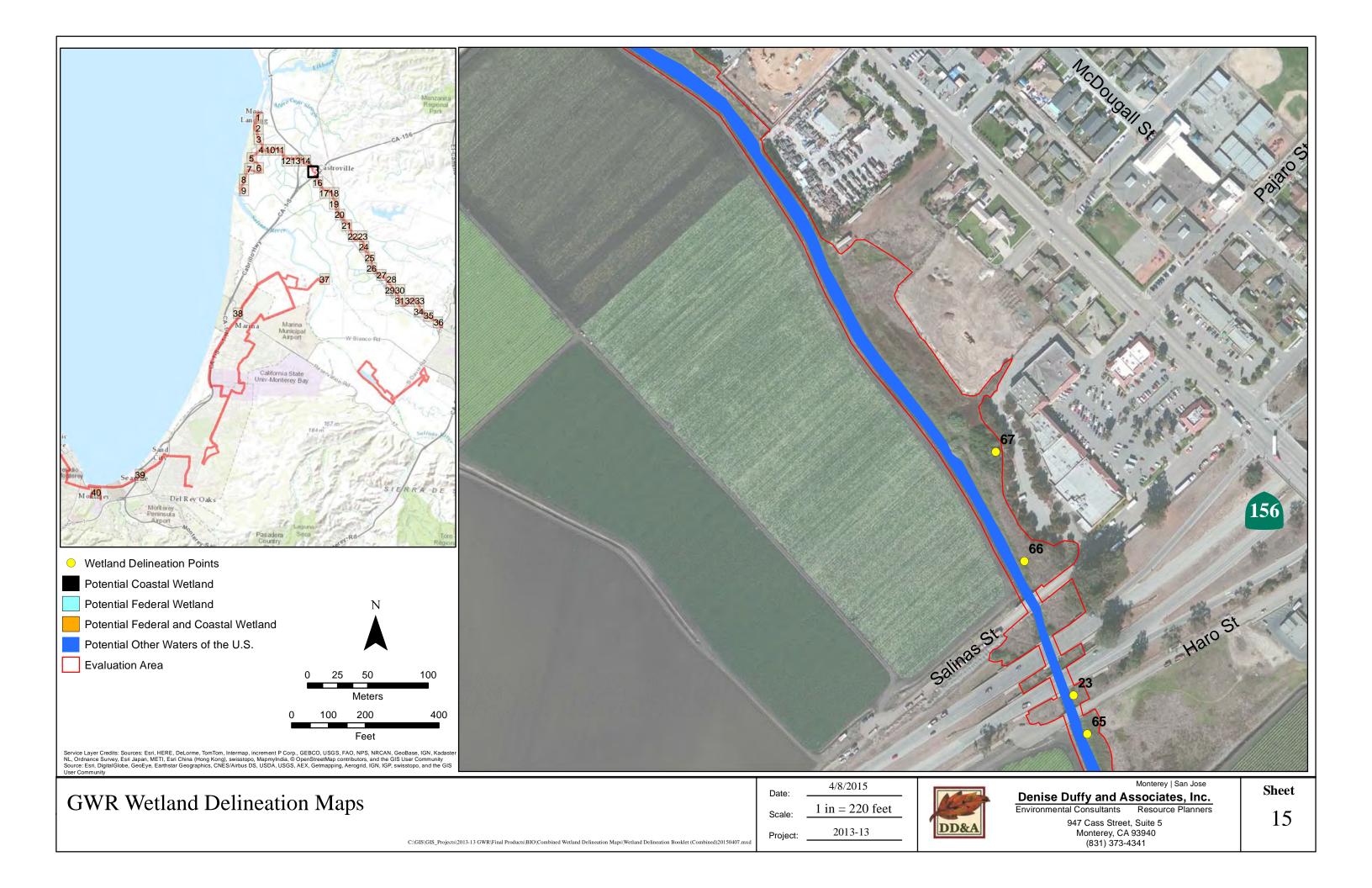


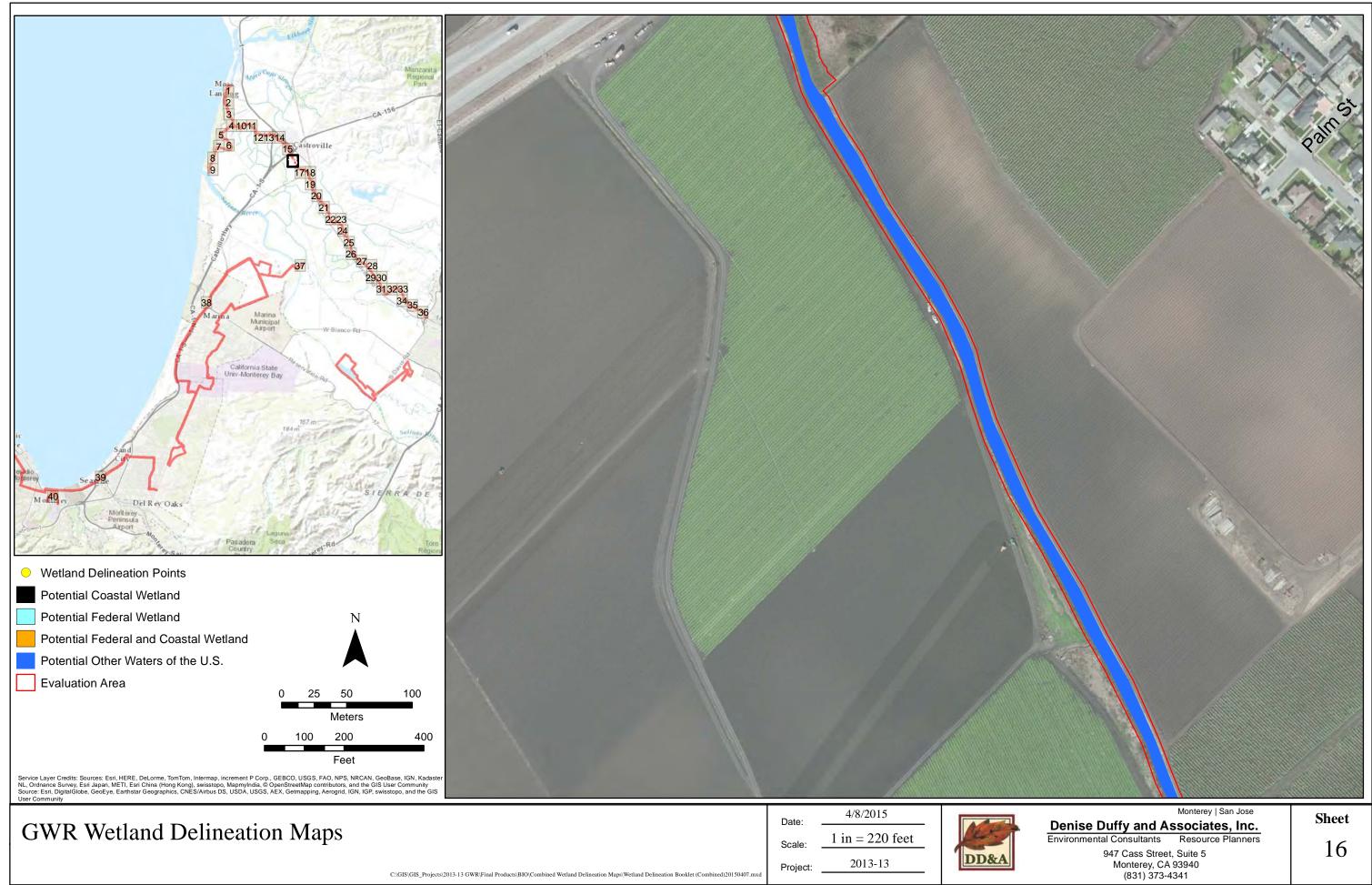


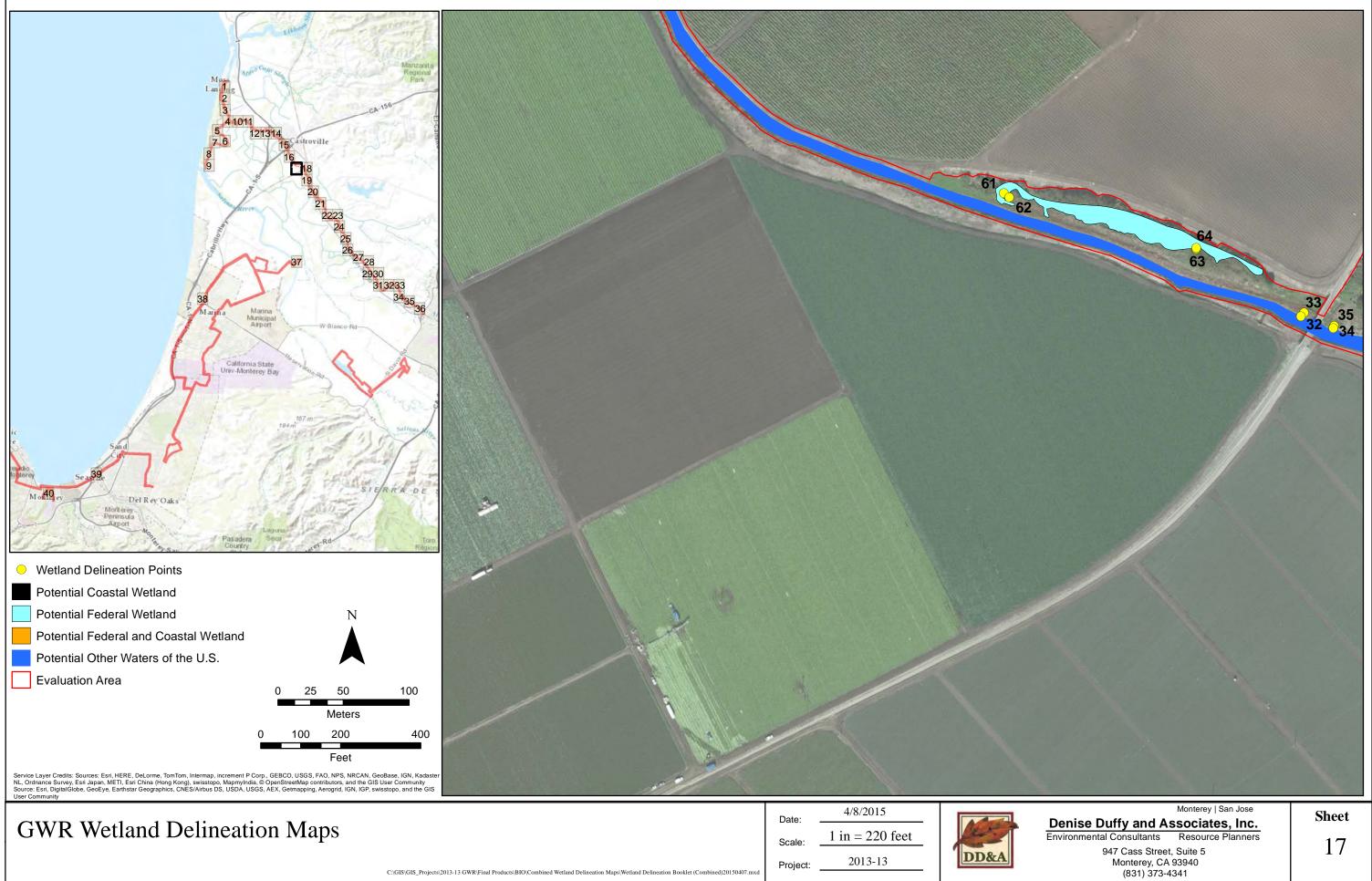
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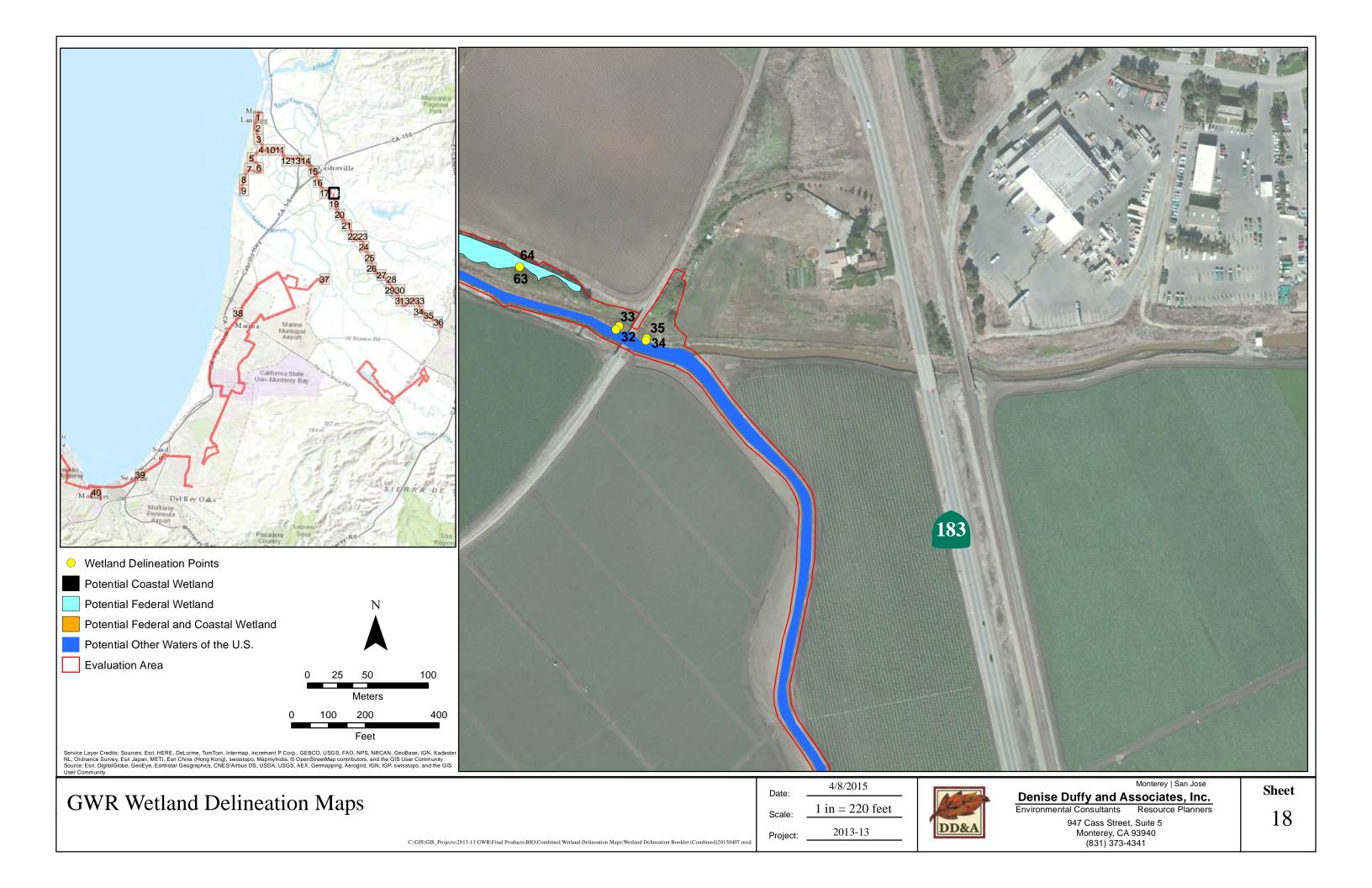


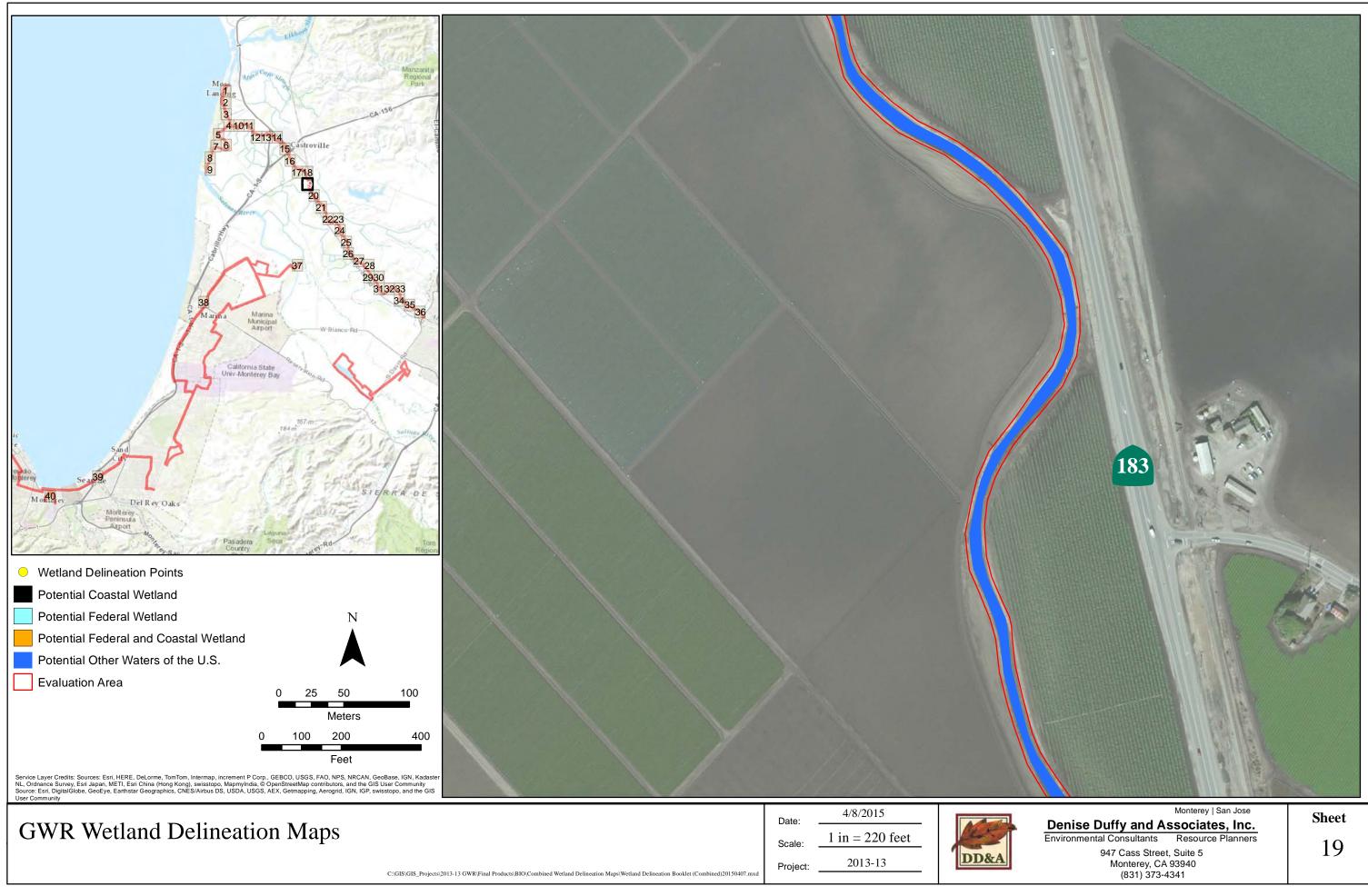




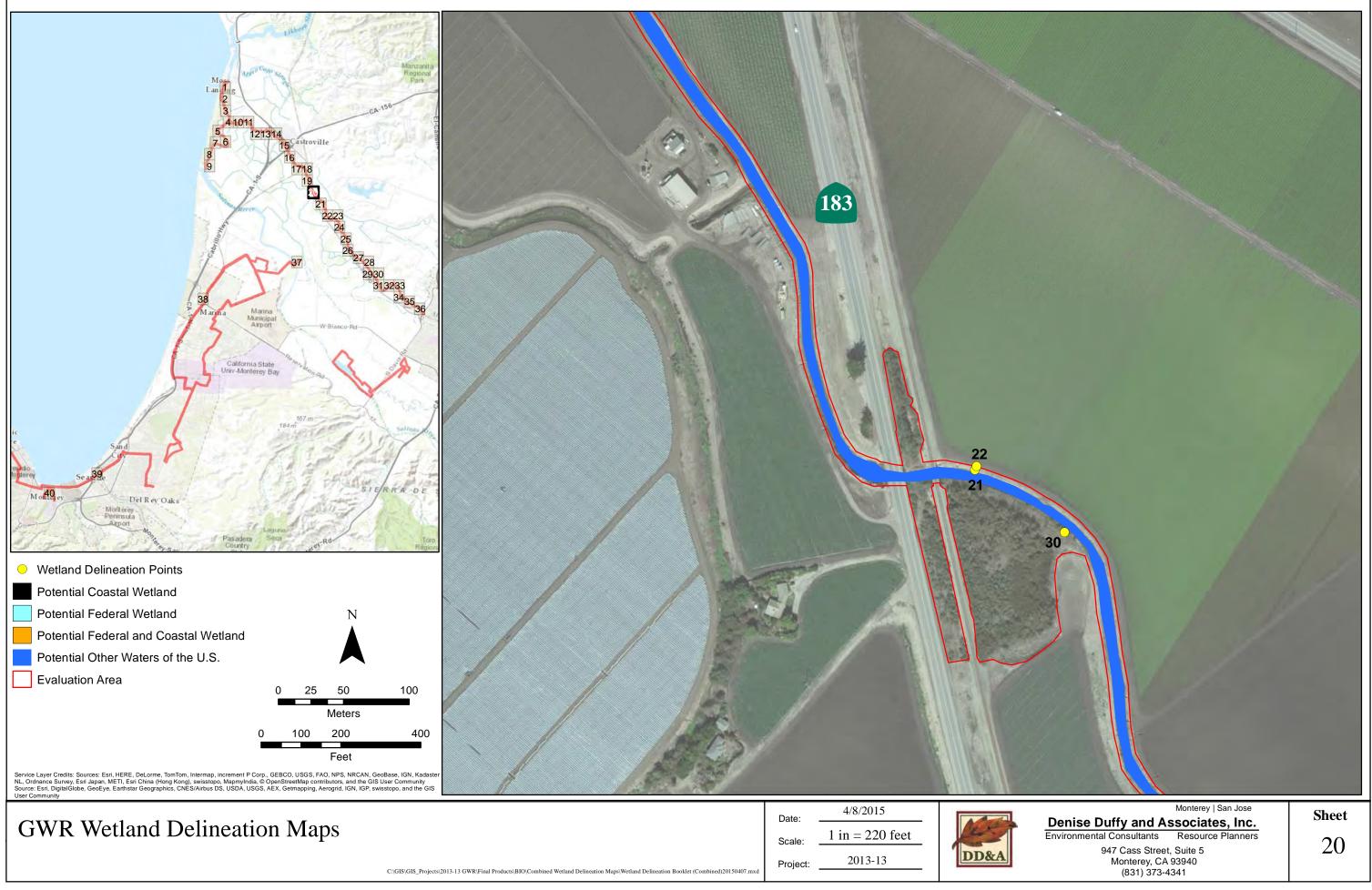


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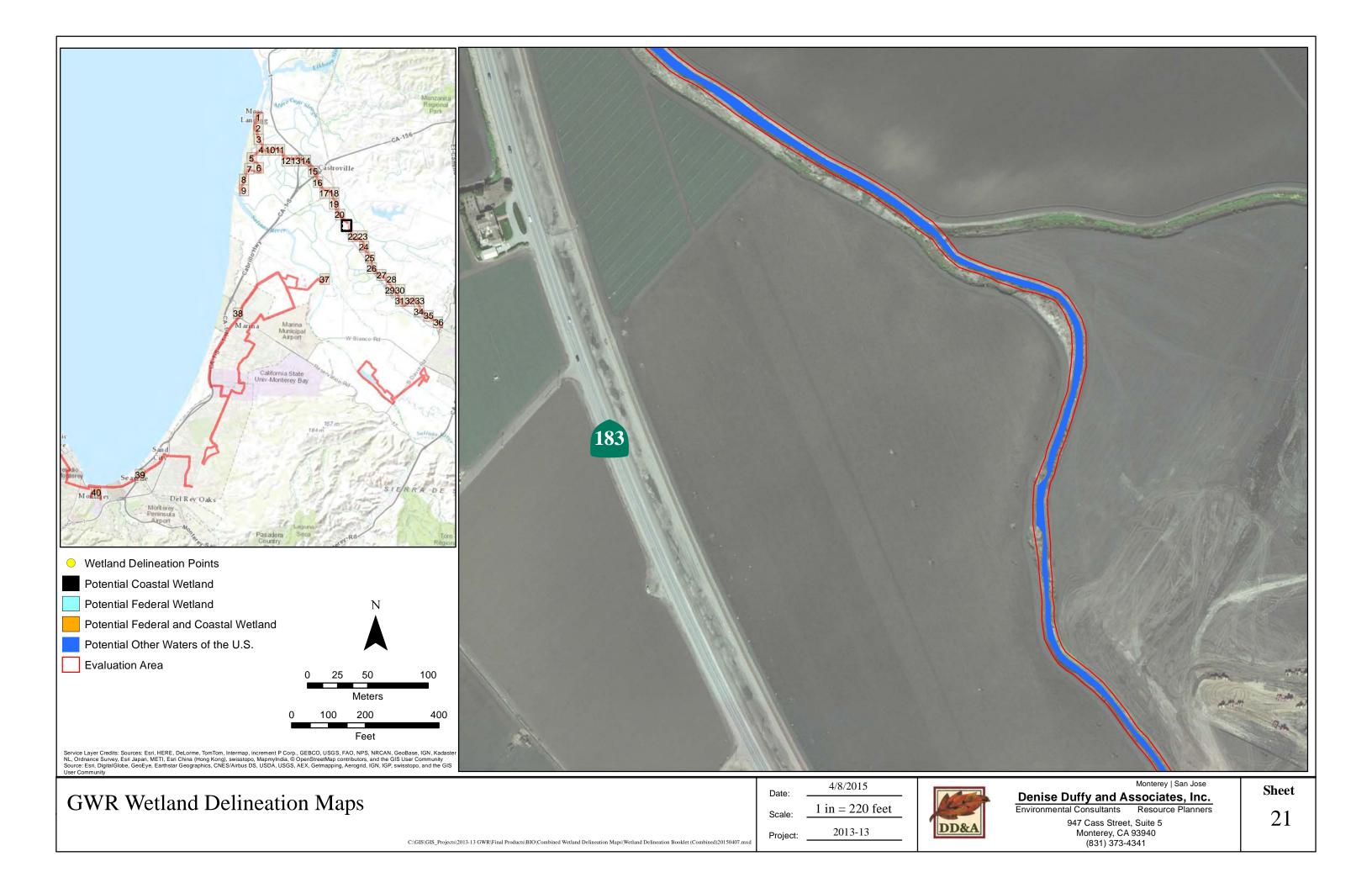


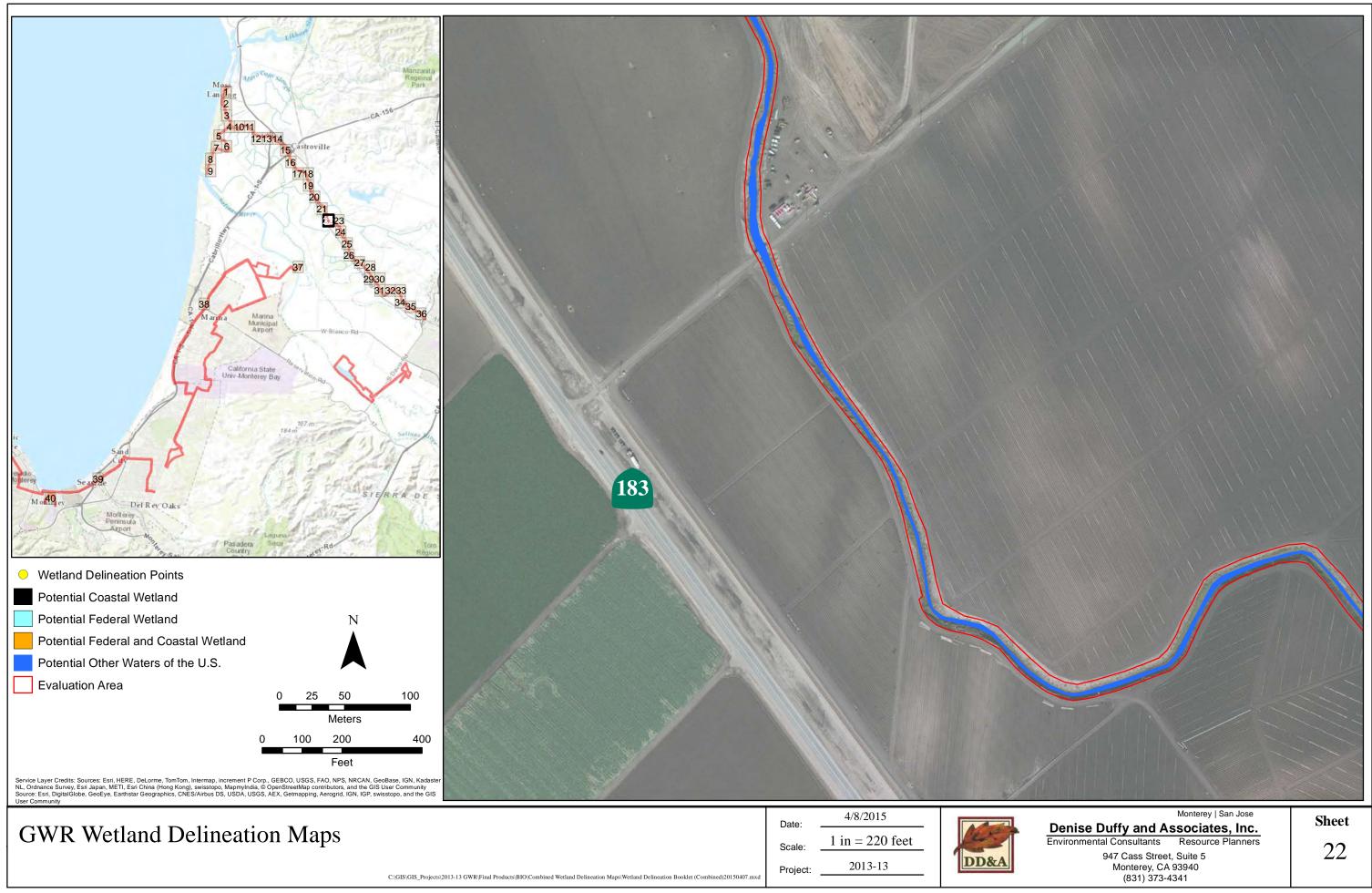


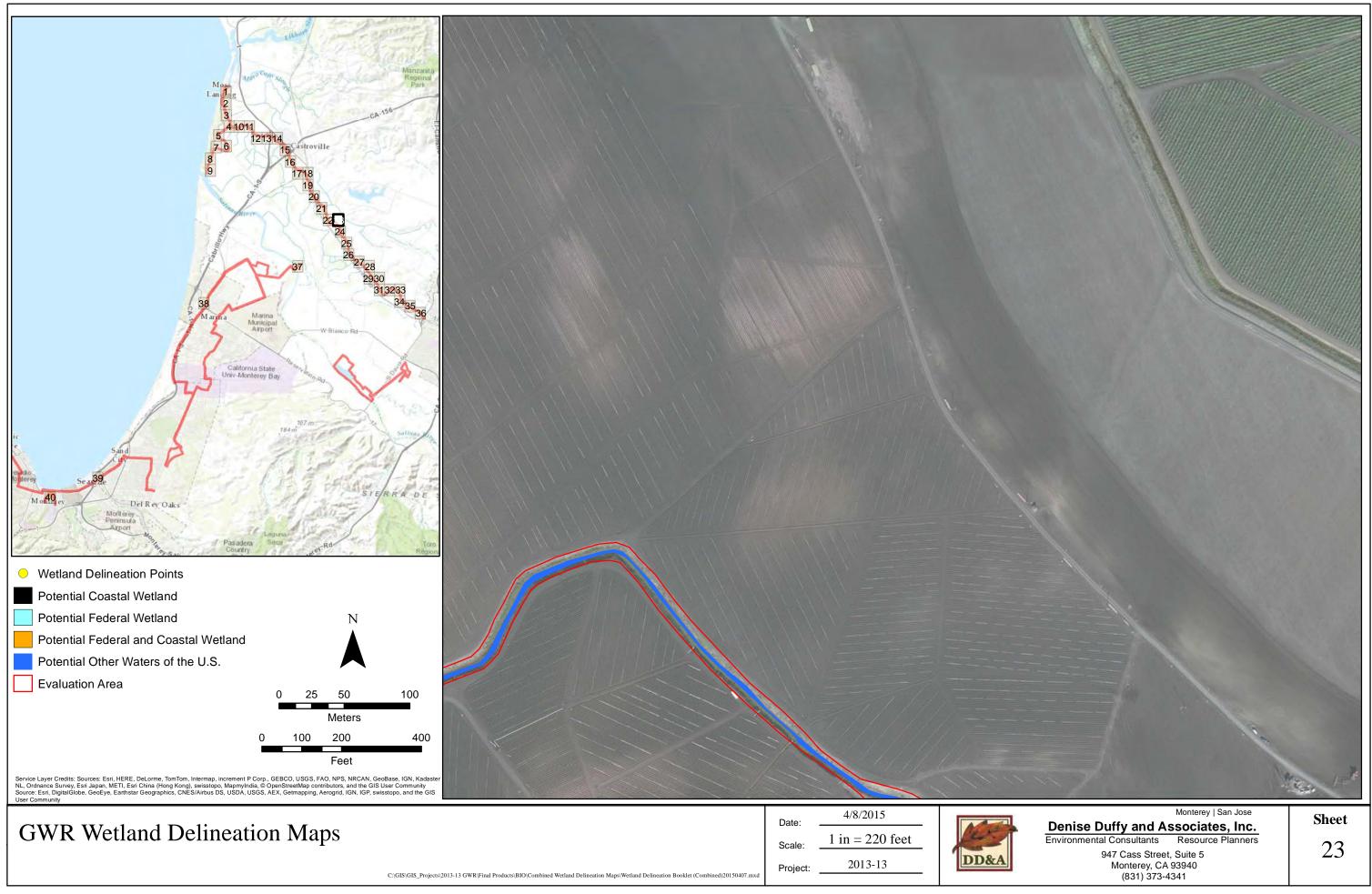
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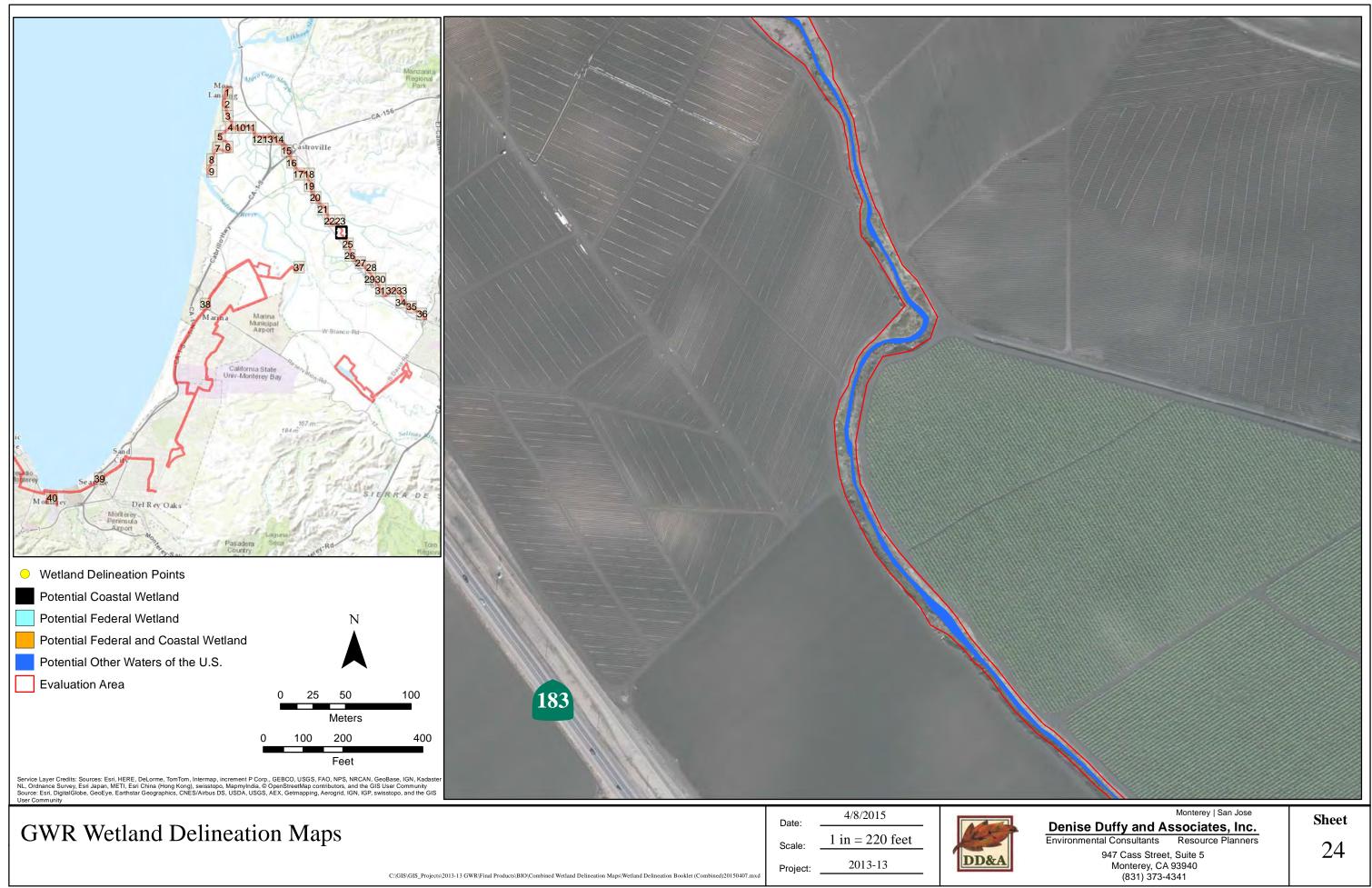


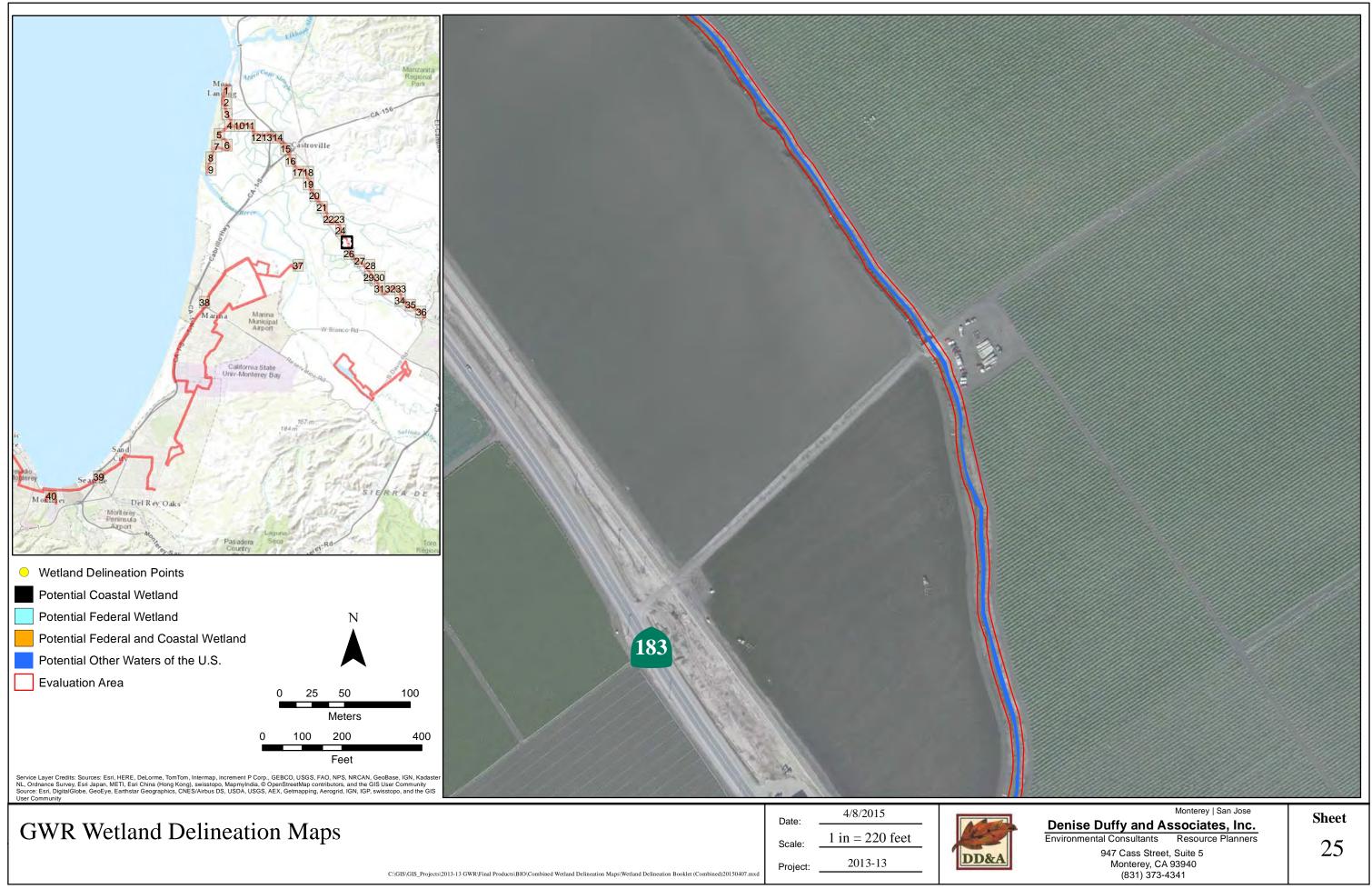
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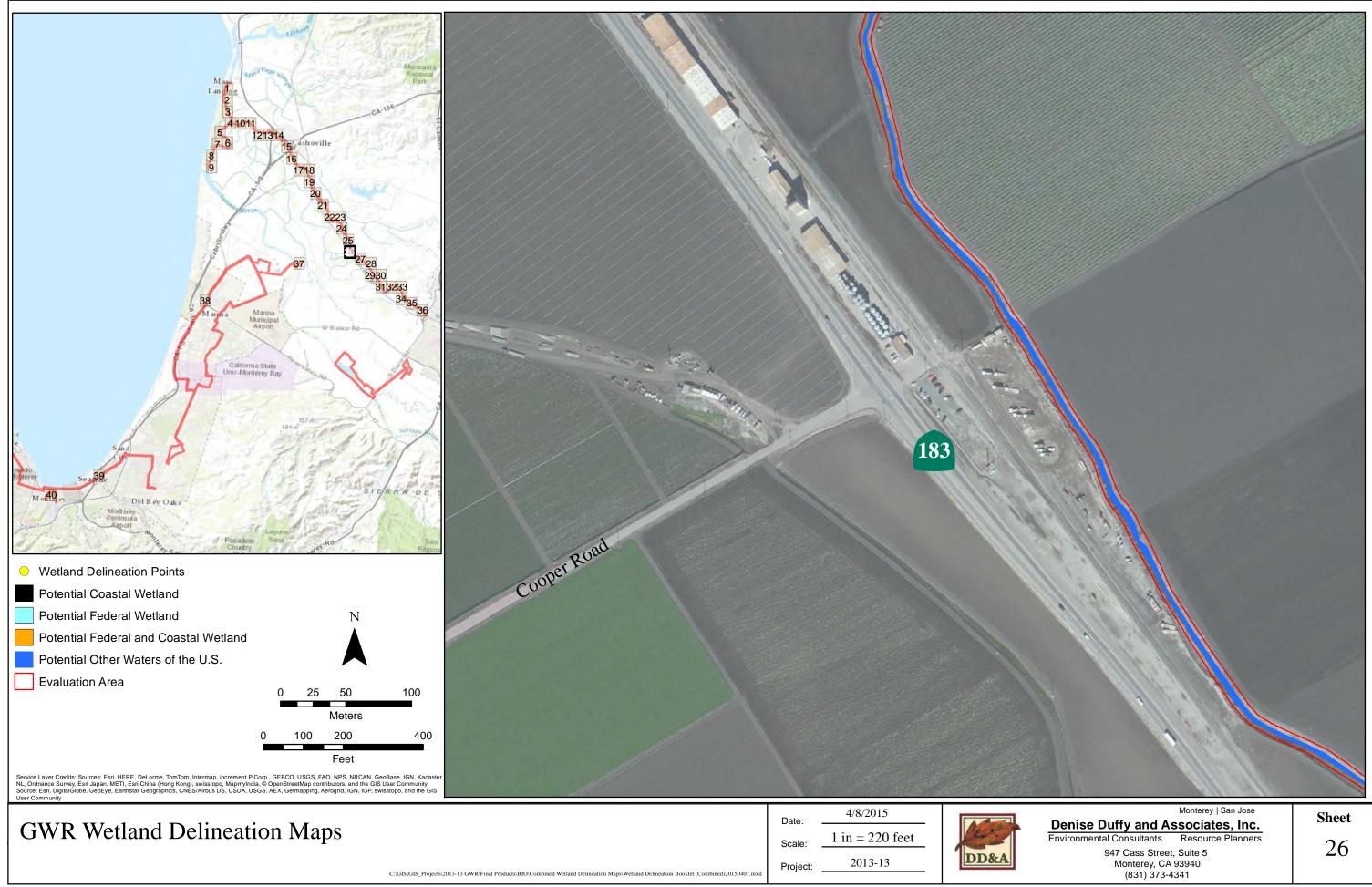


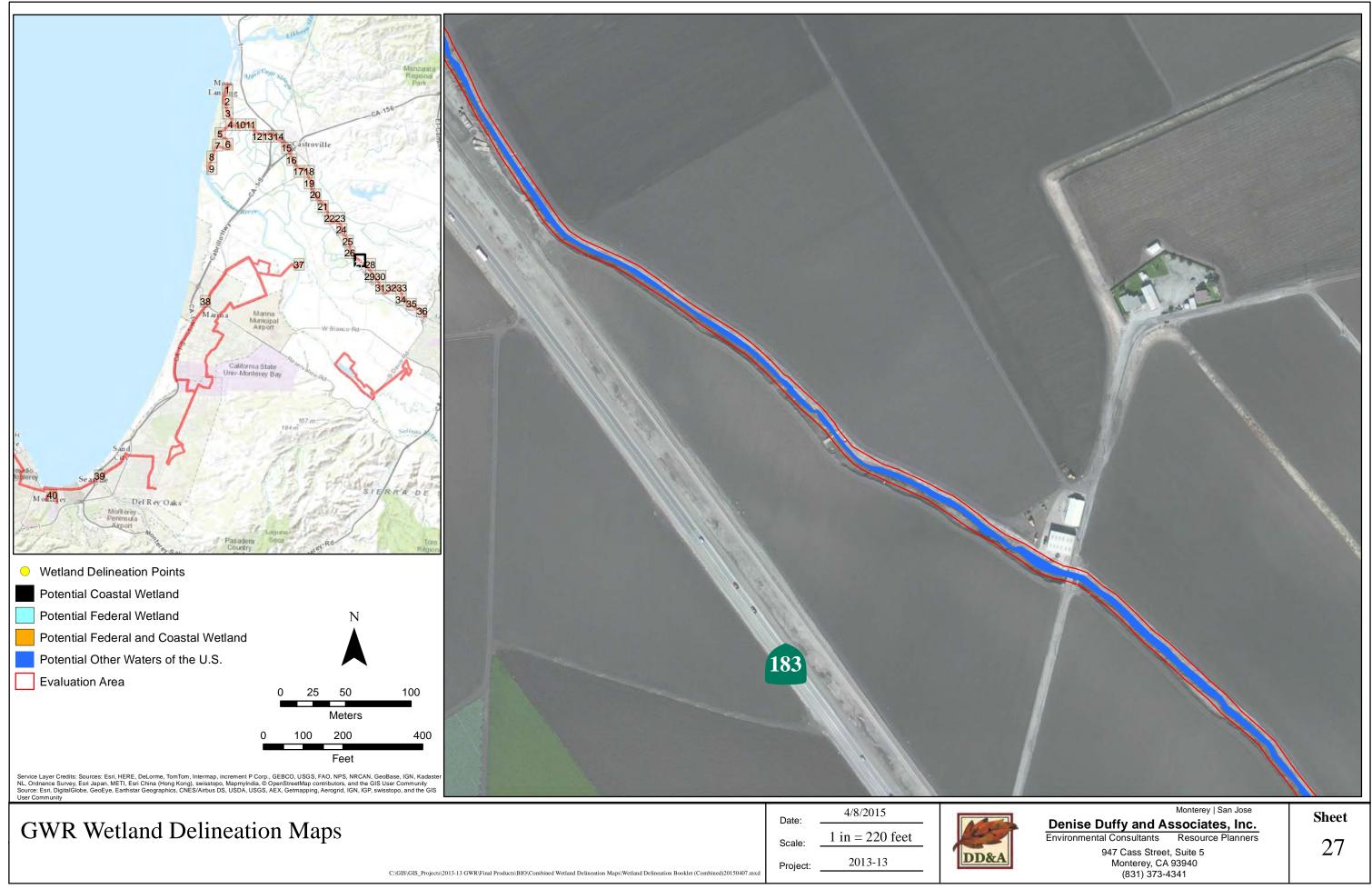




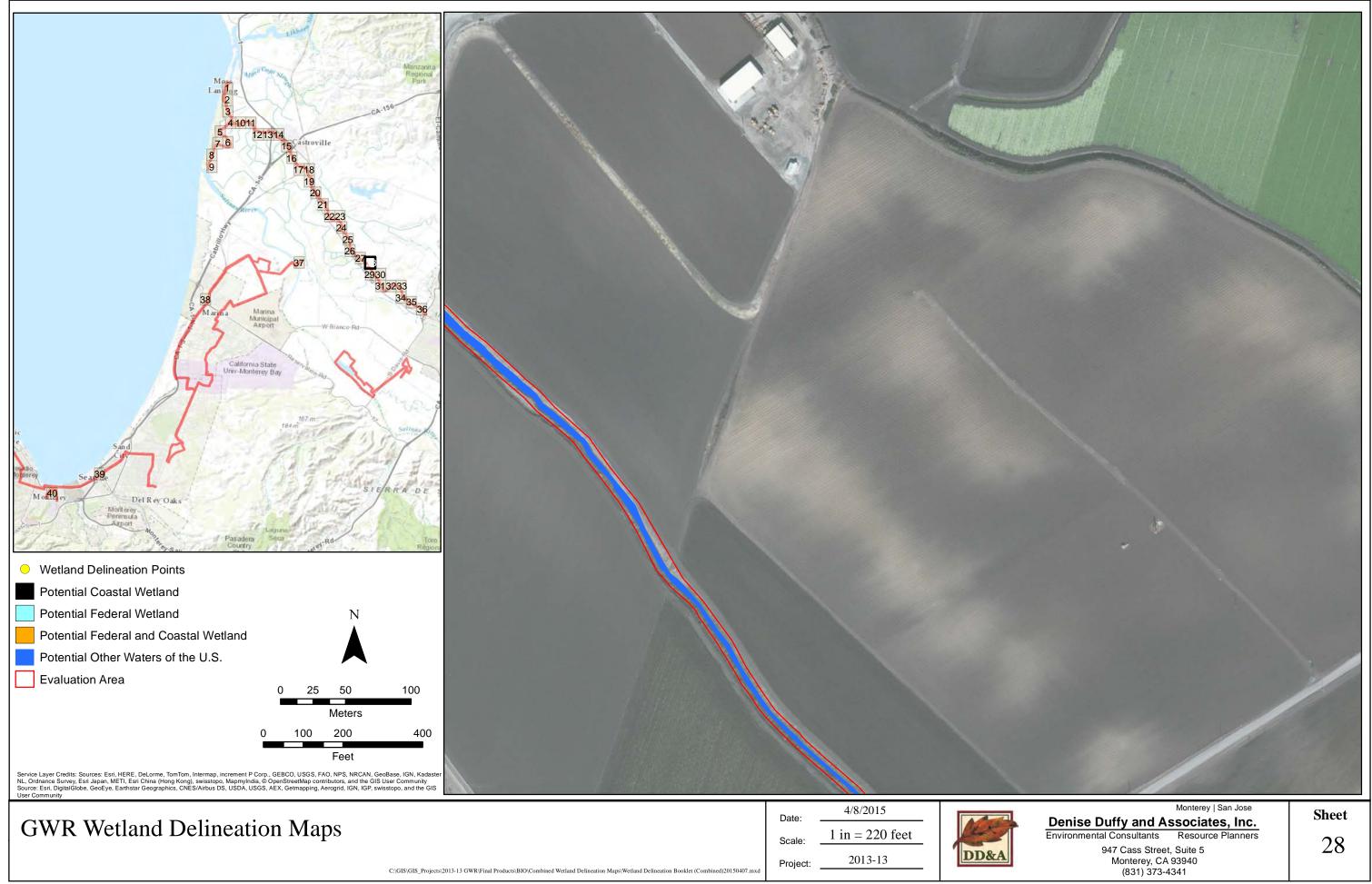






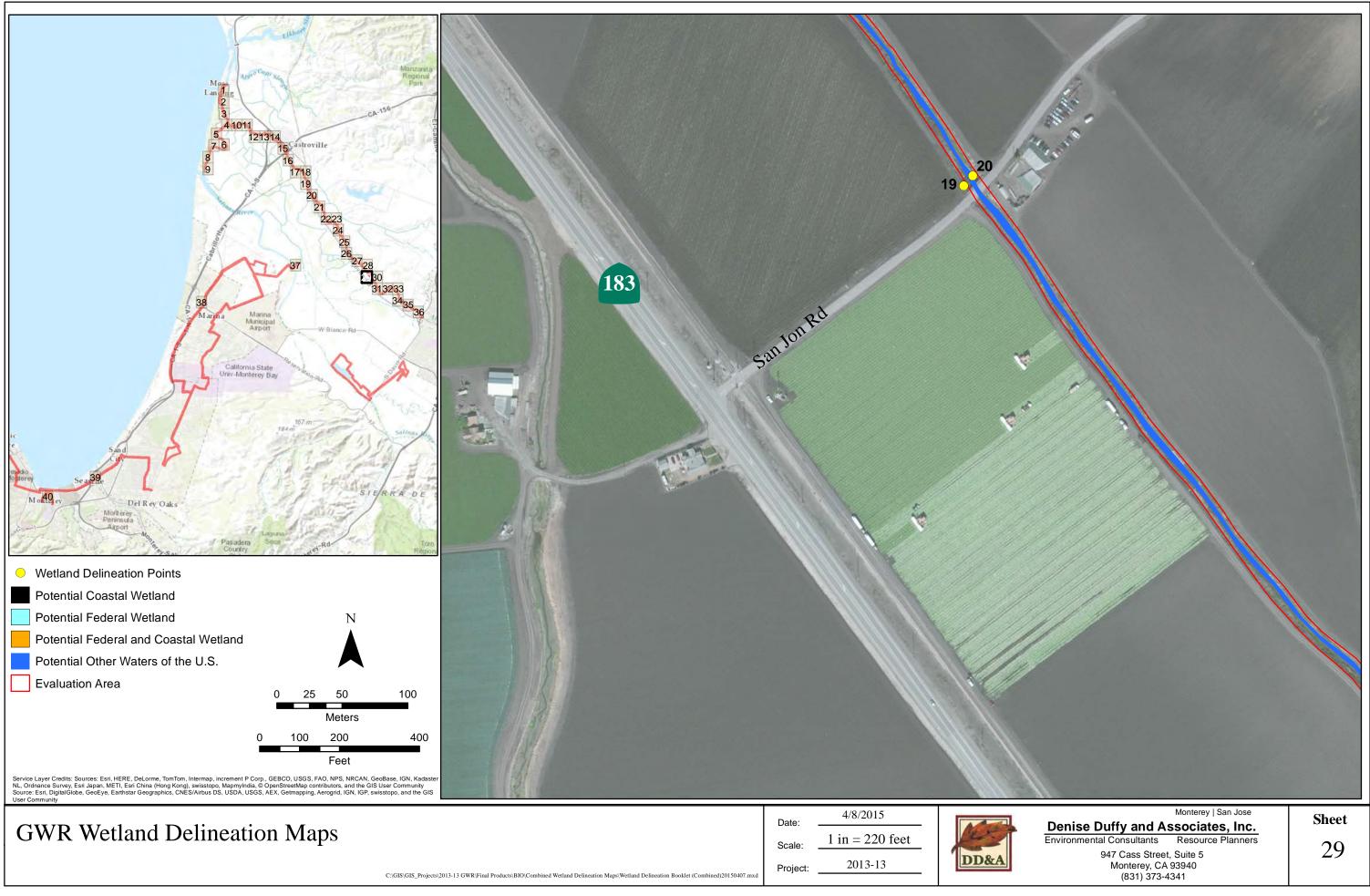


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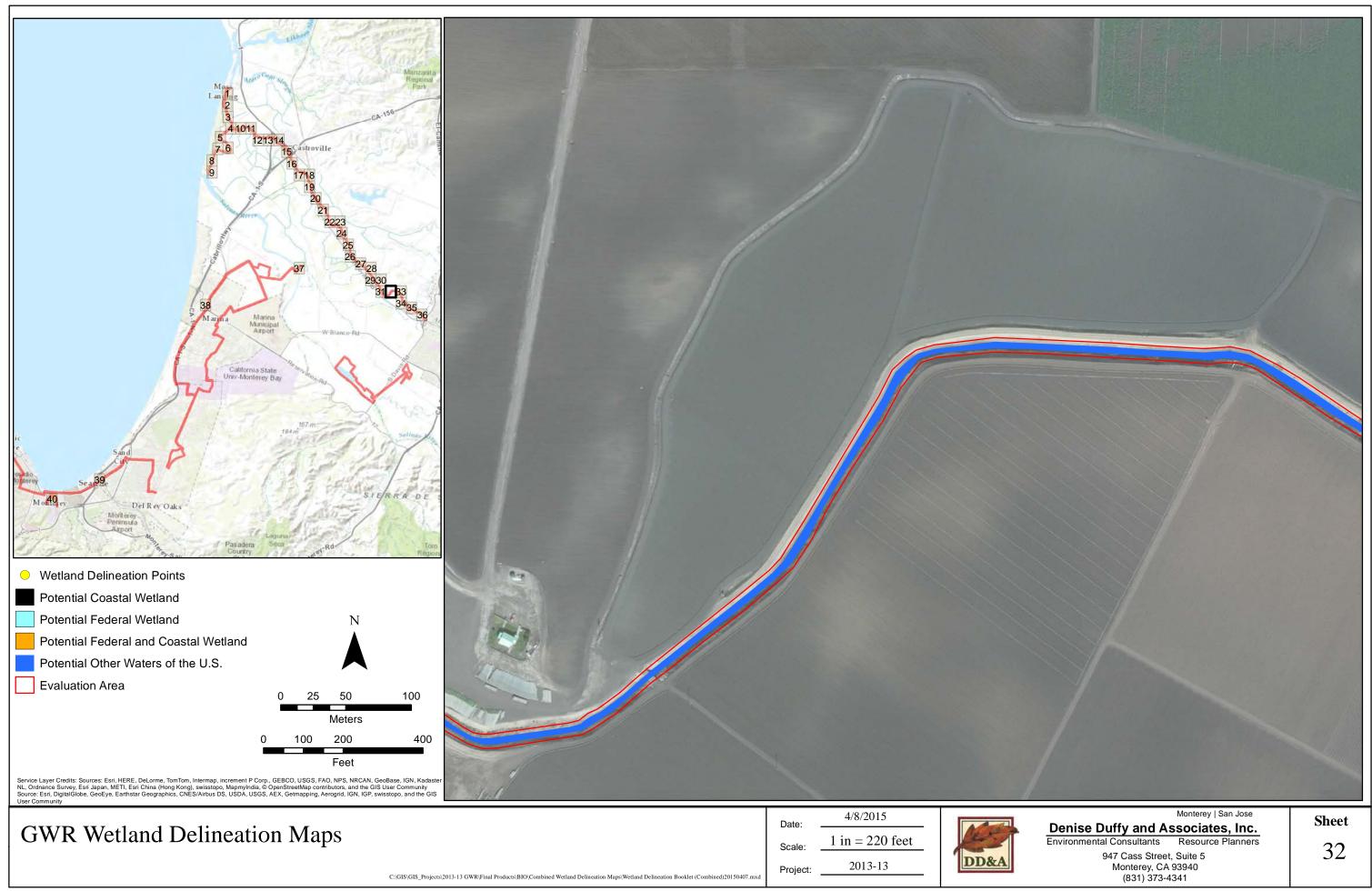




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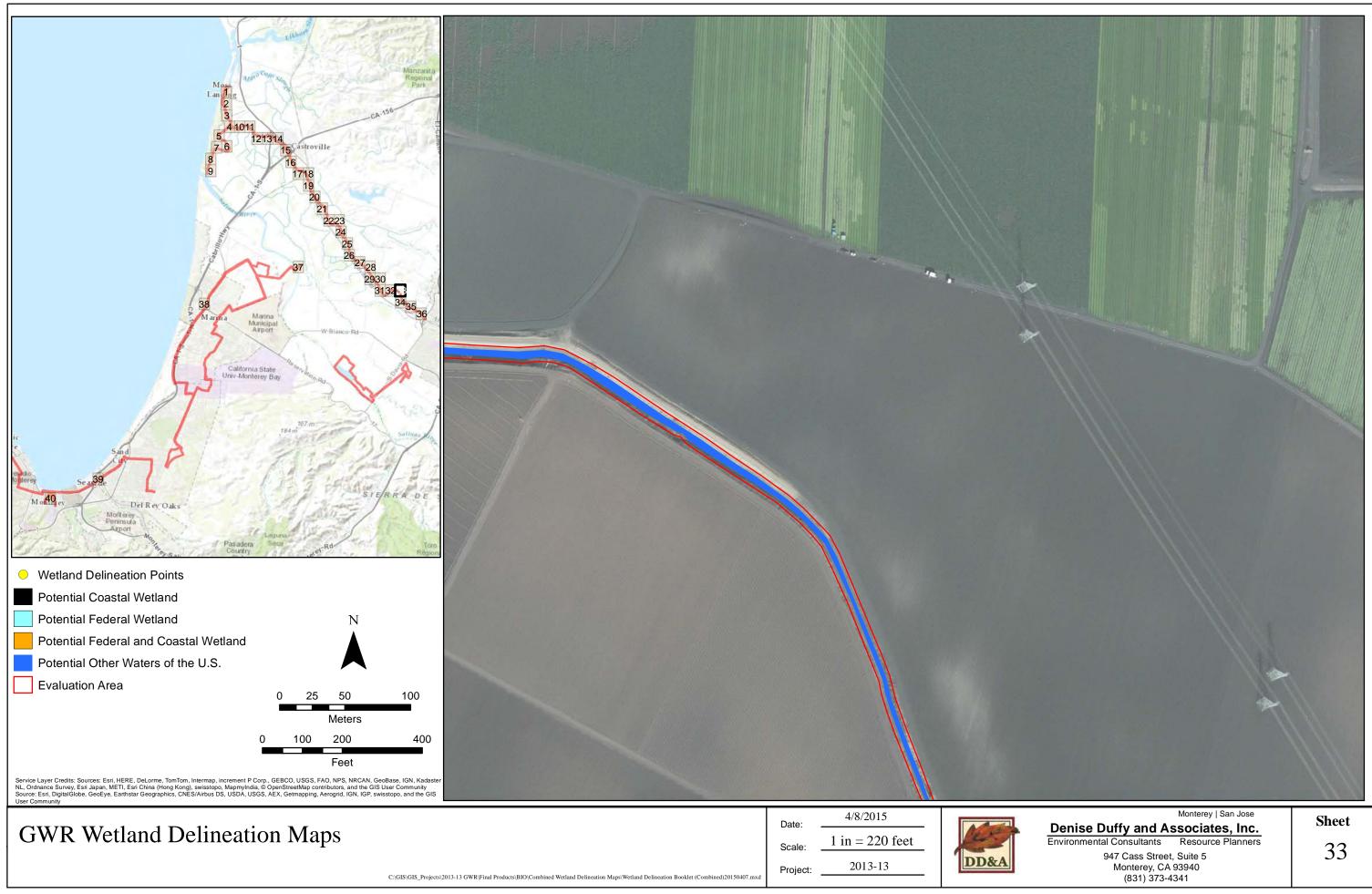




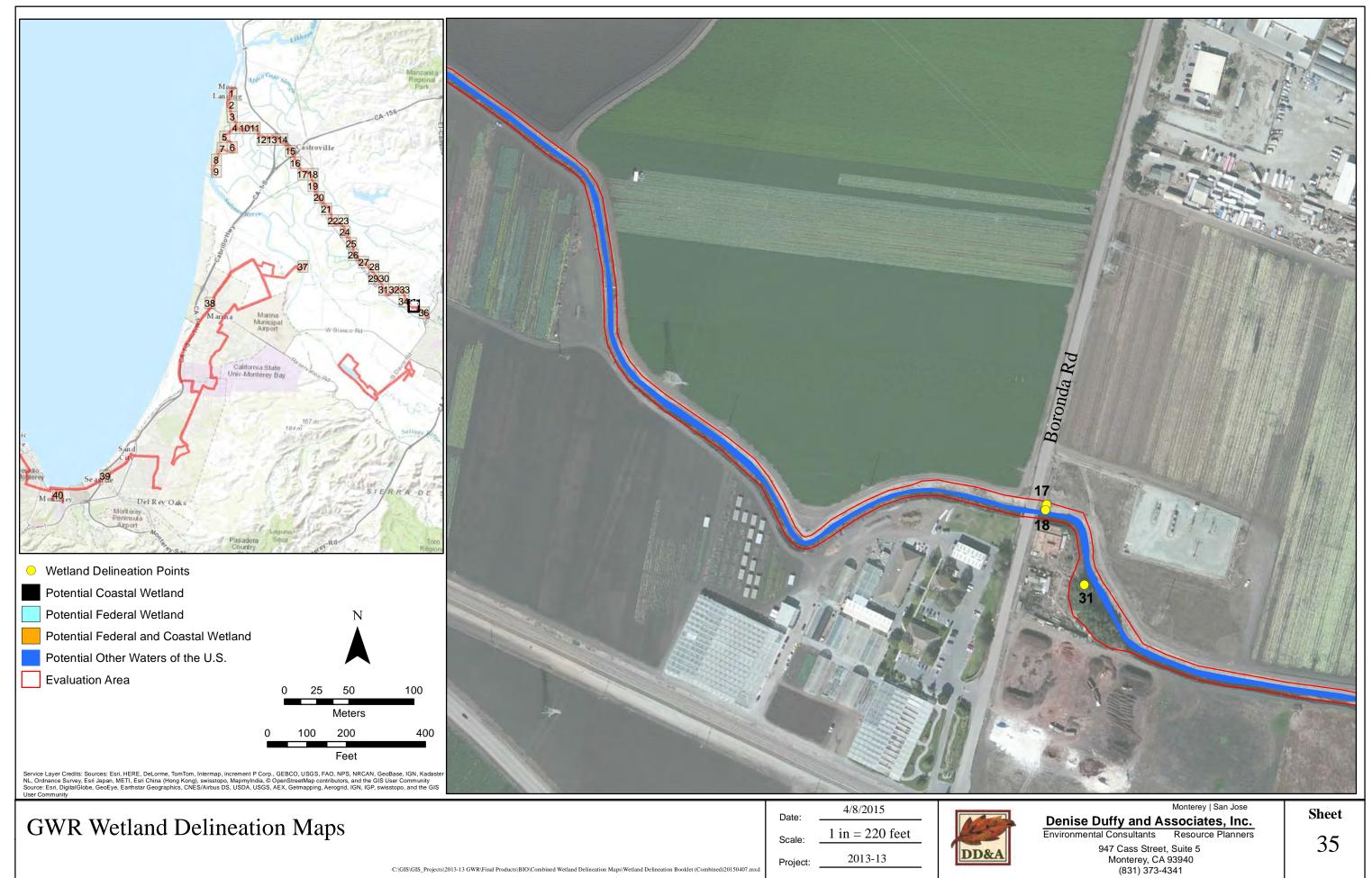


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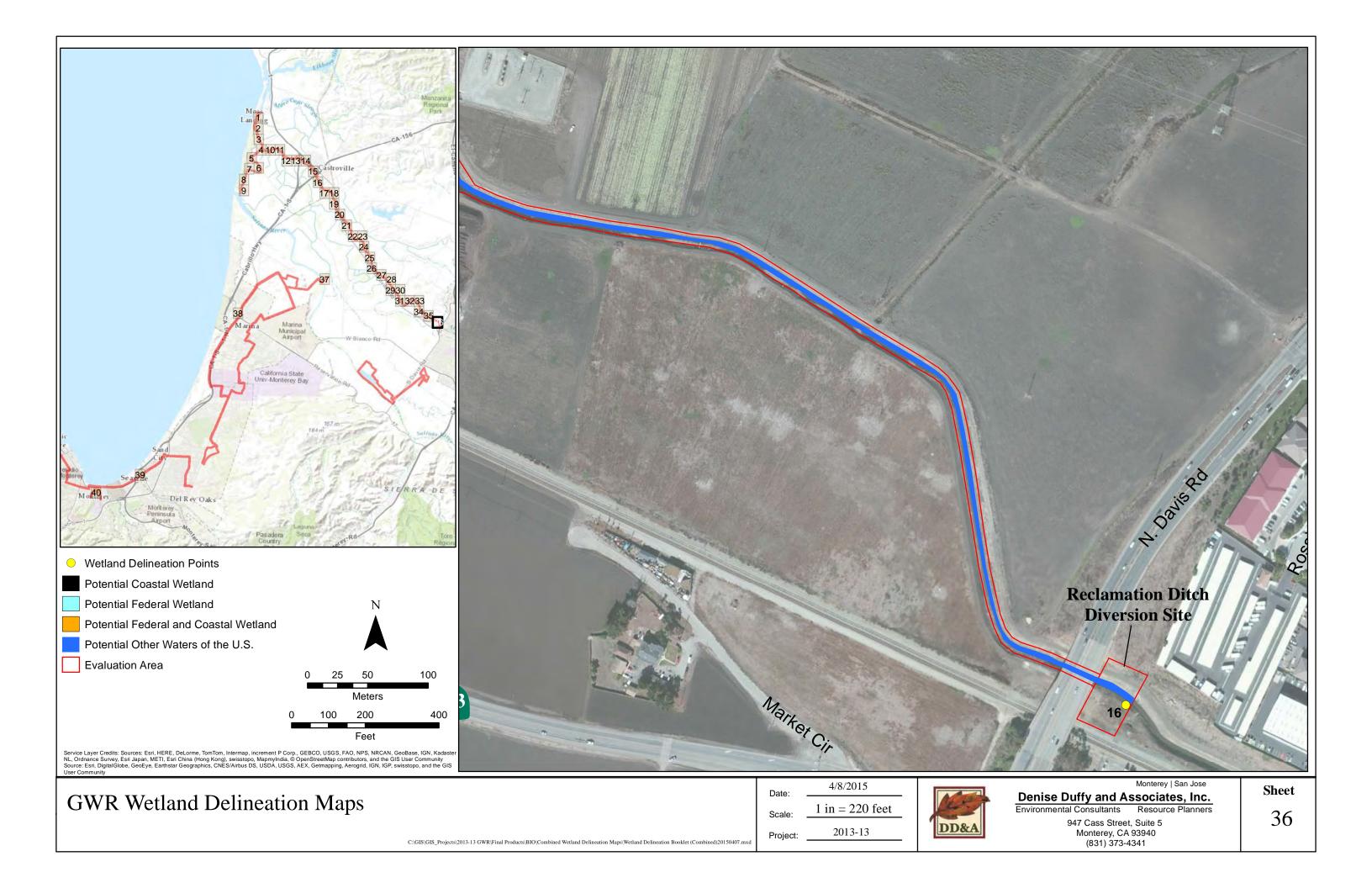


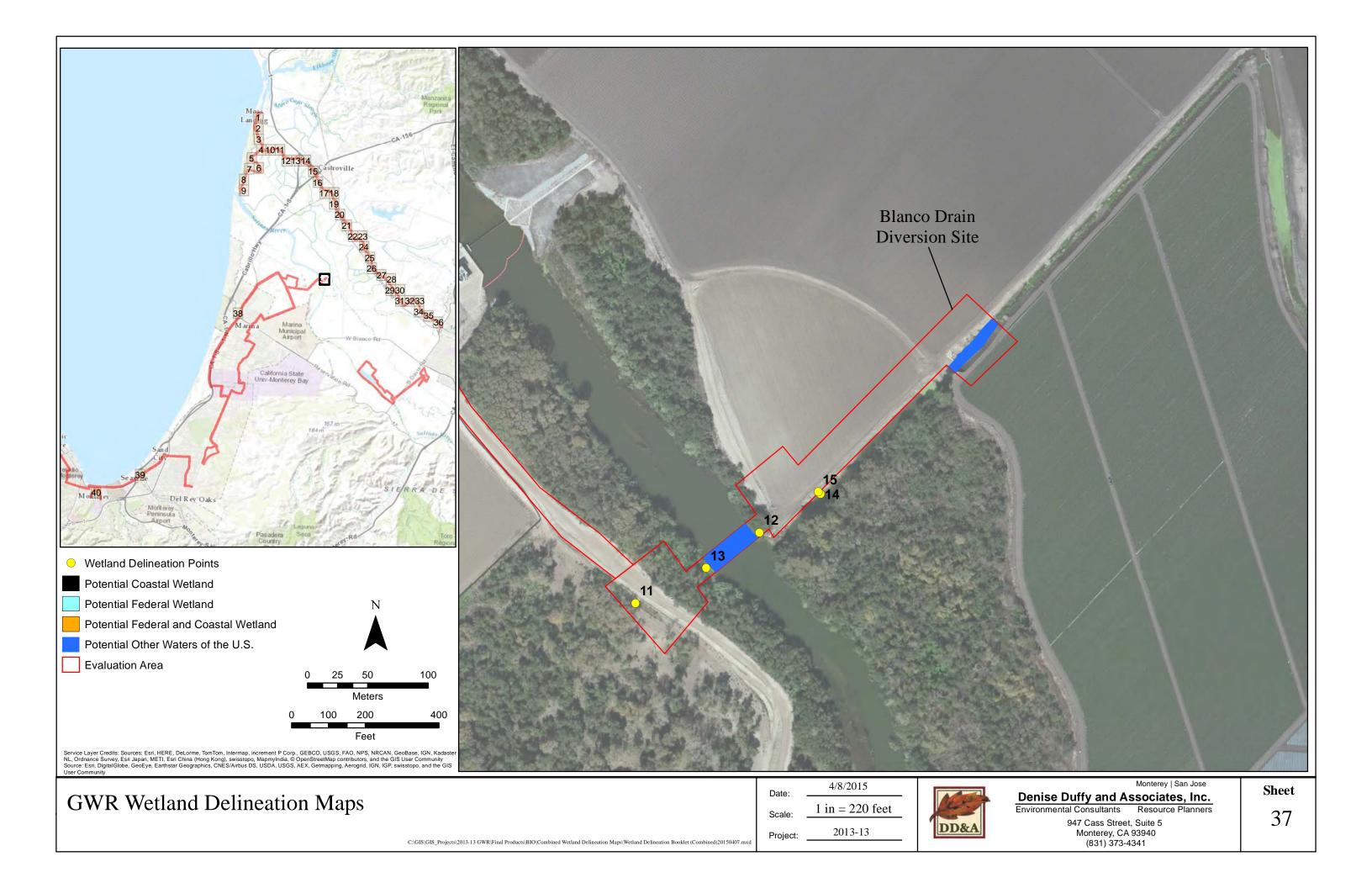


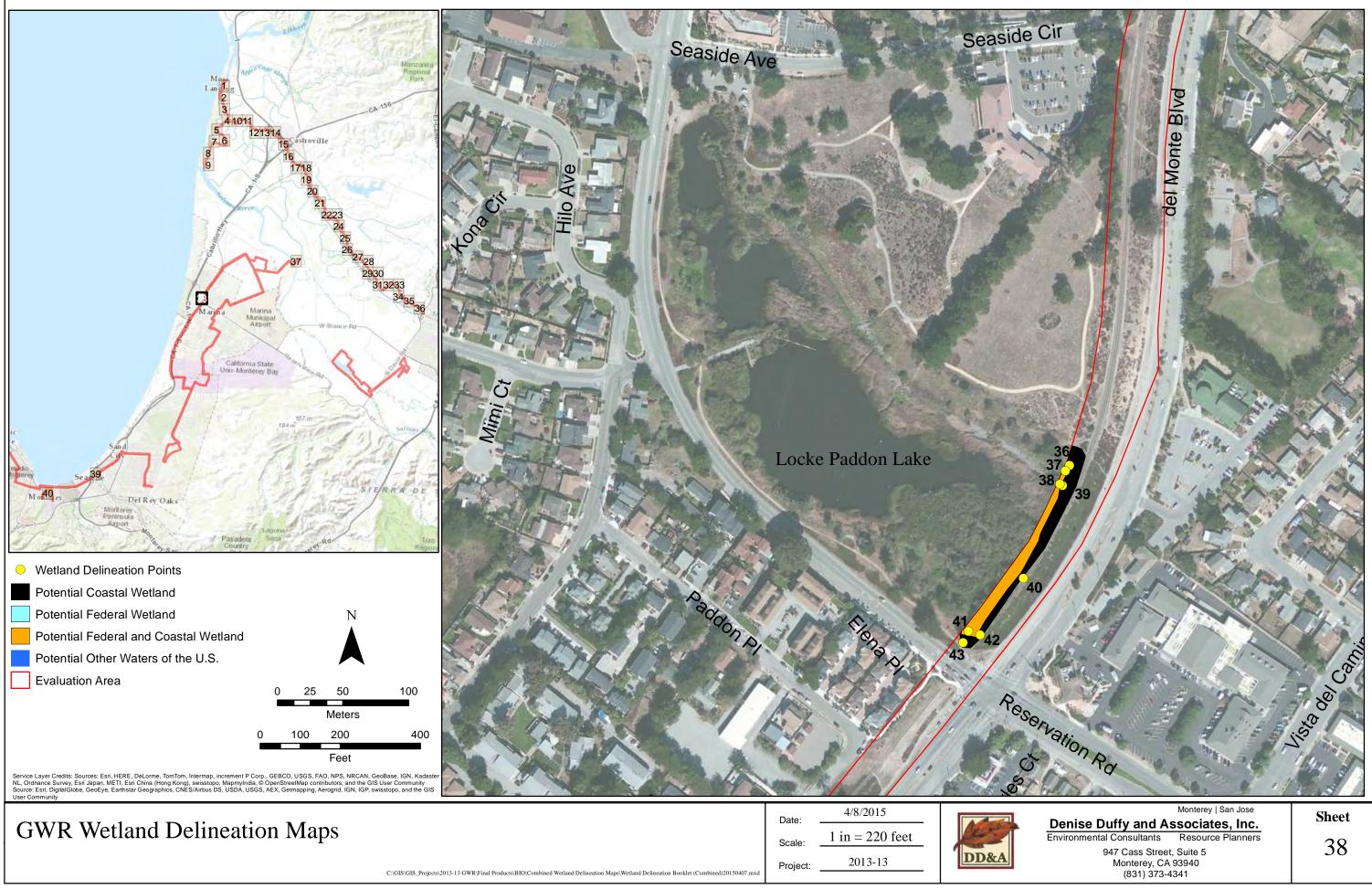




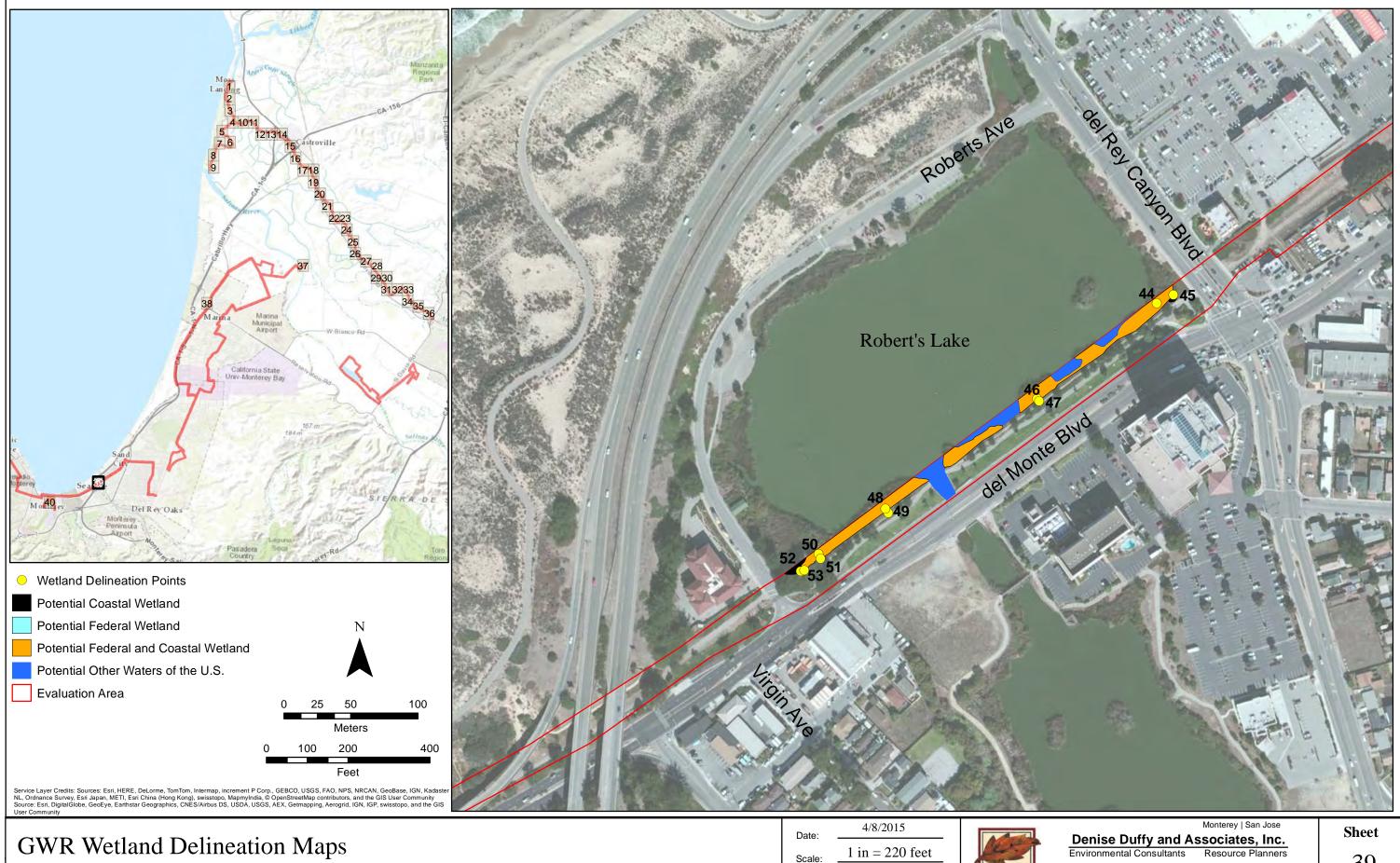
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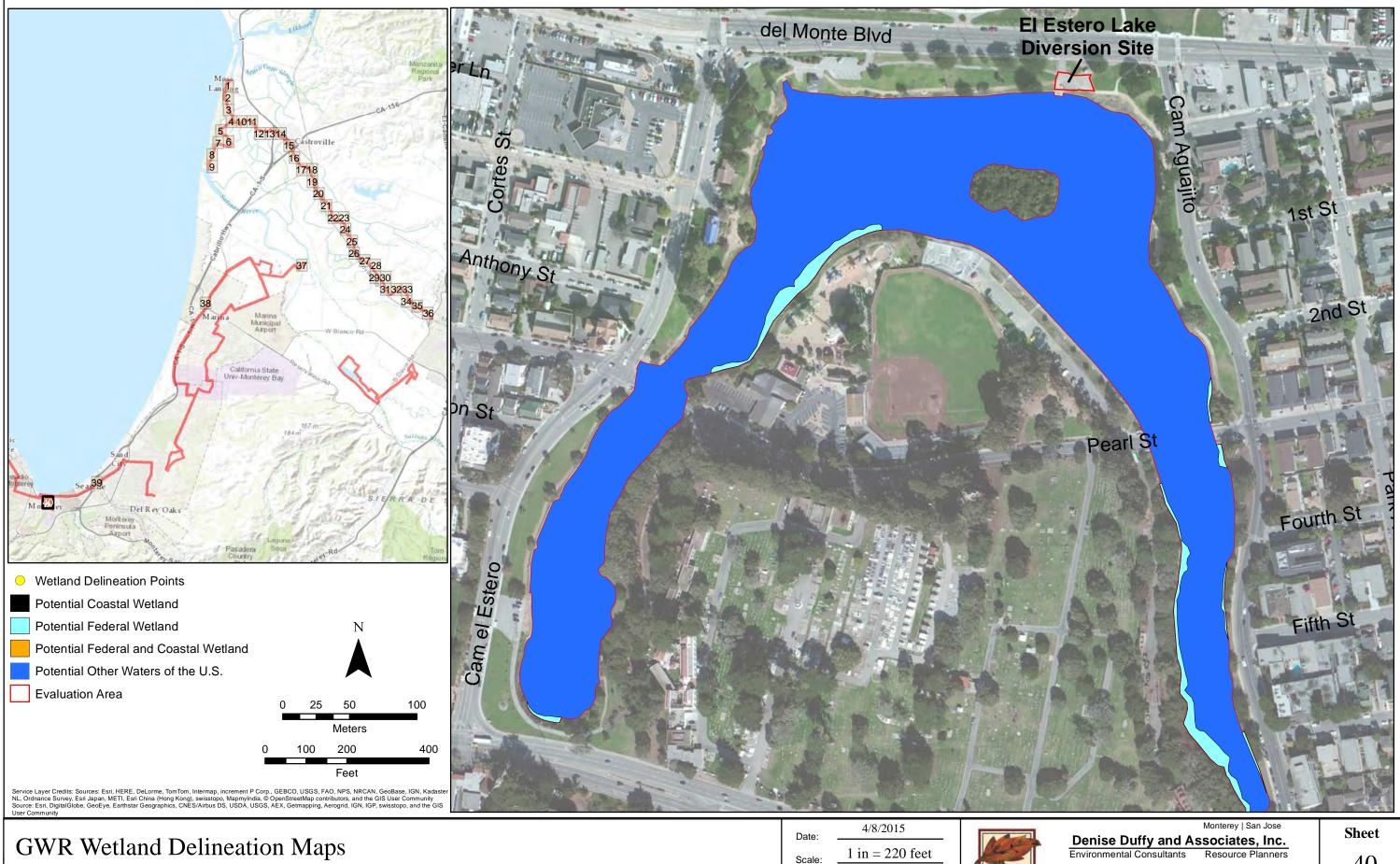
Denise Duffy and Associates, Inc. Environmental Consultants Resource Planners 947 Cass Street, Suite 5 Monterey, CA 93940 (831) 373-4341

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947 Cass Street, Suite 5 Monterey, CA 93940 (831) 373-4341

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